

Appendix E: Test Pit, Hand Auger & Dynamic Cone Penetrometer Logs



Borehole Record: HA/DCP01

Project: Peka Peka Farm - Te Horo

Location: Peka Peka Road, Peka Peka, New Zealand

Loc Comment:

Job No: 21512

Position: Lat: -40.84624

Long: 175.07571

Elevation: 6.73(m)

Inclination:

Date Drilled: 04/11/2024

Drill Rig: Hand Auger Borehole

Drill Supplier: CGW

Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		ORGANIC SILT, minor fine sand; dark brown, soft, moist, non-plastic, (TOPSOIL) Fibrous to amorphous PEAT; black mottled dark brown. Soft to firm; saturated. (SWAMP & LAKE DEPOSITS)		0.50	~1	54 - 29	
1.00				1.00	~10	44 - 25	
1.50		Loss of sample		1.50	~15		
2.00		Silty fine grained SAND; dark grey. Medium dense; wet to saturated; low plasticity. (AEOLIAN DEPOSITS) Fine grained SAND with silt, dark grey. Dense; saturated. (AEOLIAN DEPOSITS)		2.00	~20	UTP -	
2.50		HA/DCP01 Hole collapse at 2.5m		2.50	~25		



Borehole Record: HA/DCP02

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84589
 Long: 175.07459
Elevation: 6.68(m)
Inclination:

Date Drilled: 04/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		Fibrous to amorphous PEAT, trace fine grained sand; black mottled dark brown stained orange. Soft to firm; wet to saturated. (SWAMP & LAKE DEPOSITS)		0.50	~1	38 - 25	
1.00				1.00	~10	48 - 29	
1.50		Loss of sample		1.50	~15	13 - 16	
2.00		Fine grained SAND minor silt, minor rootlets; dark grey and brown. Medium dense to dense; saturated. (AEOLIAN DEPOSITS)		2.00	~25	98 - 44	
HA/DCP02 Hole collapse at 2.3m							



Borehole Record: HA/DCP03

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84538
 Long: 175.07336
Elevation: 7.03(m)
Inclination:

Date Drilled: 01/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		Organic silty fine grained SAND, some rootlets; black to dark brown; very loose; moist; non-plastic. (TOPSOIL)		0	0		
0.50		Silty fine grained SAND, minor rootlets; dark brown mottled grey. Very loose; moist. (AEOLIAN DEPOSITS)		0.50	2	108 - 44	
1.00		Fine grained SAND, some organics, minor silt; brown. Loose; moist. (AEOLIAN DEPOSITS)		1.00	4		
1.00		Becomes wetter.		1.00	6		
1.00		Fine to medium grained SAND, minor silt, dark grey. Medium dense to dense; saturated. (AEOLIAN DEPOSITS)		1.00	8	UTP -	
		HA/DCP03 Hole collapse at 1.4m		1.40	10		
				1.50	12		
				1.60	14		
				1.70	16		
				1.80	18		
				1.90	20		
				2.00	22		
				2.10	24		
				2.20	26		
				2.30	28		
				2.40	30		
				2.50	32		
				2.60	34		
				2.70	36		
				2.80	38		
				2.90	40		
				3.00	42		
				3.10	44		
				3.20	46		
				3.30	48		
				3.40	50		
				3.50	52		
				3.60	54		
				3.70	56		
				3.80	58		
				3.90	60		
				4.00	62		
				4.10	64		
				4.20	66		
				4.30	68		
				4.40	70		
				4.50	72		
				4.60	74		
				4.70	76		
				4.80	78		
				4.90	80		
				5.00	82		
				5.10	84		
				5.20	86		
				5.30	88		
				5.40	90		
				5.50	92		
				5.60	94		
				5.70	96		
				5.80	98		
				5.90	100		
				6.00	102		
				6.10	104		
				6.20	106		
				6.30	108		
				6.40	110		
				6.50	112		
				6.60	114		
				6.70	116		
				6.80	118		
				6.90	120		
				7.00	122		
				7.10	124		
				7.20	126		
				7.30	128		
				7.40	130		
				7.50	132		
				7.60	134		
				7.70	136		
				7.80	138		
				7.90	140		
				8.00	142		
				8.10	144		
				8.20	146		
				8.30	148		
				8.40	150		
				8.50	152		
				8.60	154		
				8.70	156		
				8.80	158		
				8.90	160		
				9.00	162		
				9.10	164		
				9.20	166		
				9.30	168		
				9.40	170		
				9.50	172		
				9.60	174		
				9.70	176		
				9.80	178		
				9.90	180		
				10.00	182		
				10.10	184		
				10.20	186		
				10.30	188		
				10.40	190		
				10.50	192		
				10.60	194		
				10.70	196		
				10.80	198		
				10.90	200		
				11.00	202		
				11.10	204		
				11.20	206		
				11.30	208		
				11.40	210		
				11.50	212		
				11.60	214		
				11.70	216		
				11.80	218		
				11.90	220		
				12.00	222		
				12.10	224		
				12.20	226		
				12.30	228		
				12.40	230		
				12.50	232		
				12.60	234		
				12.70	236		
				12.80	238		
				12.90	240		
				13.00	242		
				13.10	244		
				13.20	246		
				13.30	248		
				13.40	250		
				13.50	252		
				13.60	254		
				13.70	256		
				13.80	258		
				13.90	260		
				14.00	262		
				14.10	264		
				14.20	266		
				14.30	268		
				14.40	270		
				14.50	272		
				14.60	274		
				14.70	276		
				14.80	278		
				14.90	280		
				15.00	282		
				15.10	284		
				15.20	286		
				15.30	288		
				15.40	290		
				15.50	292		
				15.60	294		
				15.70	296		
				15.80	298		
				15.90	300		
				16.00	302		
				16.10	304		
				16.20	306		
				16.30	308		
				16.40	310		
				16.50	312		
				16.60	314		
				16.70	316		
				16.80	318		
				16.90	320		
				17.00	322		
				17.10	324		
				17.20	326		
				17.30	328		
				17.40	330		
				17.50	332		
				17.60	334		
				17.70	336		
				17.80	338		
				17.90	340		
				18.00	342		
				18.10	344		
				18.20	346		
				18.30	348		
				18.40	350		
				18.50	352		
				18.60	354		
				18.70	356		
				18.80	358		
				18.90	360		
				19.00	362		
				19.10	364		
				19.20	366		
				19.30	368		
				19.40	370		
				19.50	372		
				19.60	374		
				19.70	376		
				19.80	378		
				19.90	380		
				20.00	382		
				20.10	384		
				20.20	386		
				20.30	388		
				20.40	390		
				20.50	392		
				20.60	394		
				20.70	396		
				20.80	398		
				20.90	400		
				21.00	402		
				21.10	404		
				21.20	406		
				21.30	408		
				21.40	410</		



Borehole Record: HA/DCP04

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84647
 Long: 175.07467
Elevation: 7.84(m)
Inclination:

Date Drilled: 04/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		ORGANIC SILT; some fine grained sand; dark brown. Soft; moist; low to none plasticity. (TOPSOIL)		0.50		63 - 29	
1.00		Organic SILT, minor fine sand; black mottled dark brown. Firm to stiff; moist to wet. Low to none plasticity. (AEOLIAN DEPOSITS)		1.00		UTP -	
1.50		Silty fine grained SAND; brown and dark grey mottled red. Loose; wet. (AEOLIAN DEPOSITS) Fine grained SAND, minor silt; dark grey. Medium dense to dense; saturated. (AEOLIAN DEPOSITS)		1.50			
		HA/DCP04 Hole collapse at 1.7m					



Borehole Record: HA/DCP05

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84698
 Long: 175.07377
Elevation: 9(m)
Inclination:

Date Drilled: 04/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00		SILT, some fine to medium grained sand, trace rootlets; dark brown. Soft; moist; non-plastic. (TOPSOIL)		0.00	0		
0.50		Fine grained SAND, minor silt; brownish grey mottled brown. Medium dense to dense; moist. (AEOLIAN DEPOSITS)		0.50	2	UTP -	
1.00		Fine SAND, trace silt; brownish grey and dark grey. Dense; moist. (AEOLIAN DEPOSITS)		1.00	4	UTP -	
1.50				1.50	6	UTP -	
2.00		Becomes wet.		2.00	8	UTP -	
2.50		Becomes very dense.		2.50	10	UTP -	
3.00		Becomes saturated.		3.00	12	UTP -	
3.30		HA/DCP05 Hole collapse at 3.3m		3.30	14		



Borehole Record: HA/DCP06

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84710
 Long: 175.07227
Elevation: 6.94(m)
Inclination:

Date Drilled: 06/12/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.10		Fine grained SAND, some silt, minor rootlets; greyish brown. moist. (TOPSOIL)		0.00 - 0.10	~1		
0.10 - 0.50		Silty fine grained SAND, some organics, trace rootlets; dark brown. moist. (AEOLIAN DEPOSITS)		0.10 - 0.50	~2	90 - 47	
0.50 - 1.00		Fine SAND, trace silt; brownish grey and dark grey. Dense; moist. (AEOLIAN DEPOSITS)		0.50 - 1.00	~3		
1.00 - 1.50		Fibrous and amorphous PEAT, wood fragments; black. Wet. (SWAMP & LAKE DEPOSITS)		1.00 - 1.50	~4	UTP -	
1.50 - 2.00		Fine grained SAND; brownish grey. wet. (ALLUVIAL DEPOSITS)		1.50 - 2.00	~5		
2.00 - 2.10		Becomes saturated and dark grey.		2.00 - 2.10	~6		
		HA/DCP06 Hole collapse at 2m		2.10 - 2.20	~7		
				2.20 - 2.30	~8		
				2.30 - 2.40	~9		
				2.40 - 2.50	~10		
				2.50 - 2.60	~11		
				2.60 - 2.70	~12		
				2.70 - 2.80	~13		
				2.80 - 2.90	~14		
				2.90 - 3.00	~15		
				3.00 - 3.10	~16		
				3.10 - 3.20	~17		
				3.20 - 3.30	~18		
				3.30 - 3.40	~19		
				3.40 - 3.50	~20		
				3.50 - 3.60	~21		
				3.60 - 3.70	~22		
				3.70 - 3.80	~23		
				3.80 - 3.90	~24		
				3.90 - 4.00	~25		
				4.00 - 4.10	~26		



Borehole Record: HA/DCP07

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84609
 Long: 175.07354
Elevation: 7.03(m)
Inclination:

Date Drilled: 29/10/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		SILT, minor fine sand, some rootlets; dark brown mottled black. Firm; moist; non-plastic. (TOPSOIL) Fine SAND, some silt, trace rootlets; brownish grey mottled orange. Loose to medium dense; moist to wet. (AEOLIAN DEPOSITS)		0.50		133 - 57	
1		Fine SAND, minor silt; dark grey. Medium dense to dense; wet. (AEOLIAN DEPOSITS) Becomes saturated.		1		UTP -	
HA/DCP07 Hole collapse at 1.4m							



Borehole Record: HA/DCP09

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84505
 Long: 175.07229
Elevation: 5.98(m)
Inclination:

Date Drilled: 01/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00		SILT, some fine sand, some rootlets; dark brown. Soft; wet; non-plastic. (TOPSOIL)		0.00	0		
0.10		Fibrous PEAT, trace fine to medium grained sand, black mottled dark brown. Very soft; wet; medium plasticity. (SWAMP & LAKE DEPOSITS)		0.10	1		
0.20		Amorphous PEAT, trace fine to medium grained sand, some rootlets; black mottled dark brown. Soft; saturated. (SWAMP & LAKE DEPOSITS)		0.20	2		
0.30				0.30	3		
0.40				0.40	4		
0.50				0.50	5		
0.60				0.60	6		
0.70				0.70	7		
0.80				0.80	8		
0.90				0.90	9		
1.00		Loss of sample	1.00	10			
1.10			1.10	11			
1.20			1.20	12			
1.30			1.30	13			
1.40		Loss of sample.	1.40	14			
1.50			1.50	15			
1.60		Buried wood.	1.60	16			
1.70		Loss of sample.	1.70	17			
1.80			1.80	18			
1.90			1.90	19			
2.00			2.00	20			
2.10			2.10	21			
2.20			2.20	22			
2.30			2.30	23			
2.40			2.40	24			
2.50		Fine to medium grained SAND, minor silt, trace organics; dark brown and grey. Medium dense; saturated. (BEACH DEPOSITS)	2.50	25		UTP -	
2.60		Becomes dense.	2.60	26			
2.70		HA/DCP09 Hole collapse at 2.7m					



Borehole Record: HA/DCP10

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84419
 Long: 175.07232
Elevation: 6.13(m)
Inclination:

Date Drilled: 04/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		Fibrous to amorphous PEAT with wood fragments; black stained orange. Soft; wet to saturated. (SWAMP & LAKE DEPOSITS)		0	0		
				0.50	10	UTP -	
		Loss of sample		1	10	0 - 0	
		Loss of sample		1.50	10	0 - 0	
2		Silty fine grained SAND; black and dark grey. Loose; saturated.		2	10	0 - 0	
2.50		Fine grained SAND with silt; dark grey and brown. Dense to medium dense; saturated. (AEOLIAN DEPOSITS)		2.50	10	UTP -	
HA/DCP10 Hole collapse at 3m							



Borehole Record: HA/DCP11

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84778
 Long: 175.07099
Elevation: 6.57(m)
Inclination:

Date Drilled: 05/12/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		Fine grained SAND, some silt, trace rootlets; dark brown. Moist. (AEOLIAN DEPOSITS)		0.50	~2	62 - 43	
1.00		Fine grained SAND, some silt; greyish brown, brownish grey. Moist to wet. (AEOLIAN DEPOSITS)		1.00	~8	90 - 43	
1.50		Fine grained SAND minor silt; dark grey. Saturated. (AEOLIAN DEPOSITS)		1.50	~12	UTP -	
		HA/DCP11 Hole collapse at 1.5m					



Borehole Record: HA/DCP12

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84698
 Long: 175.07089
Elevation: 6.41(m)
Inclination:

Date Drilled: 05/12/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.50		Silty fine grained SAND, some rootlets; dark brown and brown. Moist. (TOPSOIL)		0.00 - 0.50			
0.50 - 1.00		Organic SILT, some fine grained sand; greyish brown and dark brown. Moist. (AEOLIAN DEPOSITS)		0.50 - 1.00		UTP -	
1.00 - 2.00		Amorphous to fibrous PEAT, trace fine grained sand, wood fragmentes; black. Soft to firm; wet, (SWAMP & LAKE DEPOSITS)		1.00 - 2.00		40 - 31	
2.00 - 2.50		Fine grained SAND minor silt; dark grey. Wet to saturated. (AEOLIAN DEPOSITS)		2.00 - 2.50		37 - 31	
2.50 - 2.80				2.50 - 2.80		112 - 56	
2.80 - 2.85		HA/DCP12 Hole collapse at 2.8m		2.80 - 2.85		UTP -	



Borehole Record: HA/DCP14

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84519
 Long: 175.07105
Elevation: 6.11(m)
Inclination:

Date Drilled: 06/12/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		Amorphous PEAT with wood fragments; black and dark brown. Soft to firm; wet. (SWAMP & LAKE DEPOSITS)		0.50	~1	31 - 25	
1.00		Fine grained SAND minor silt; dark grey. Wet. (AEOLIAN DEPOSITS) Becomes saturated.		1.00	~8	96 - 50	
1.50				1.50	~15	UTP -	
		HA/DCP14 Hole collapse at 1.6m					



Borehole Record: HA/DCP15

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84423
 Long: 175.07048
Elevation: 5.84(m)
Inclination:

Date Drilled: 04/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.50		ORGANIC SILT; black and dark brown. Soft; moist; non-plastic. (TOPSOIL)		0.00 - 0.50			
0.50 - 1.00		Amorphous PEAT, trace fine grained sand, with wood fragments; black mottled dark brown. Soft; wet. (SWAMP & LAKE DEPOSITS)		0.50 - 1.00		19 - 16	
1.00 - 1.50		Becomes saturated.		1.00 - 1.50		38 - 29	
1.50 - 2.00		Wood fragment.		1.50 - 2.00		51 - 25	
2.00 - 2.50		Fine grained SAND, minor silt, minor rootlets; dark grey and dark brown. Medium dense to dense; saturated. (AEOLIAN DEPOSITS)		2.00 - 2.50		UTP -	
2.50 - 3.00				2.50 - 3.00		114 - 44	

HA/DCP15 Target depth achieved at 3m



Borehole Record: HA/DCP16

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84330
 Long: 175.07095
Elevation: 10.86(m)
Inclination:

Date Drilled: 12/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.25		Silty fine grained SAND, trace rootlets; dark brown. Loose; moist. (TOPSOIL)		0.00 - 0.25	~1.5		
0.25 - 0.85		Silty fine grained SAND, greyish brown mottled brown. Loose; moist. (AEOLIAN DEPOSITS)		0.25 - 0.85	~2.5 - 4.5	86 - 41	
0.85 - 2.10		Fine grained SAND, minor silt; brownish grey. Medium dense; moist. (AEOLIAN DEPOSITS)		0.85 - 2.10	~5.5 - 7.5	UTP -	
2.10 - 2.50		Becomes dense.		2.10 - 2.50	~8.5 - 10.5	UTP -	



Borehole Record: HA/DCP16

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84330
 Long: 175.07095
Elevation: 10.86(m)
Inclination:

Date Drilled: 12/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
<p>3.50</p> <p>4</p> <p>4.50</p>		<p>Becomes dense.</p> <p>Becomes very dense and wet.</p>		<p>3.50</p> <p>4</p> <p>4.50</p>		<p>UTP -</p> <p>UTP -</p>	
<p>HA/DCP16 Target depth achieved at 5m</p>							



Borehole Record: HA/DCP17

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84258
 Long: 175.07032
Elevation: 9.62(m)
Inclination:

Date Drilled: 06/12/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.10		Silty fine grained SAND; dark brown mottled brown. Loose; moist. (TOPSOIL)		0.00	~1		
0.10 - 0.20		Fine grained SAND, some silt; dark brown. Medium dense; moist. (AEOLIAN DEPOSITS)		0.10	~2		
0.20 - 0.50		Silty fine grained SAND; greyish brown and brown. Medium dense; moist. (AEOLIAN DEPOSITS)		0.50	~4	127 - 48	
0.50 - 1.00		Fine grained SAND, minor silt. Brownish grey. Dense to very dense; moist. (AEOLIAN DEPOSITS)		1.00	~8	95 - 48	
1.00 - 2.00		Becomes very dense.		1.50	~12	UTP -	
2.00 - 2.50				2.00	~16	UTP -	
2.50 - 3.00				2.50	~20	UTP -	
3.00 - 3.50				3.00	~24	UTP -	
3.50 - 4.00				3.50	~28	UTP -	
4.00 - 4.50		Becomes wet and dark grey.		4.00	~32	UTP -	
4.50 - 5.00				4.50	~36		

HA/DCP17 Target depth achieved at 5m



Borehole Record: HA/DCP18

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84337
 Long: 175.06989
Elevation: 5.88(m)
Inclination:

Date Drilled: 12/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram	
0.50		ORGANIC SILT, trace rootlets; black and dark brown. Soft; moist to wet; low plasticity. (TOPSOIL) Amorphous PEAT; black mottled dark brown. Soft; wet to saturated; low to high plasticity. (SWAMP & LAKE DEPOSITS)		0.50		29 - 19		
1.00		Organic silty fine grained SAND; dark grey mottled dark brown. Loose to medium dense; saturated. (BEACH DEPOSITS) Fine grained SAND, some silt; dark grey. Medium dense to dense; saturated. (BEACH DEPOSITS)		1.00		UTP -		
		HA/DCP18 Hole collapse at 1.5m						



Borehole Record: HA/DCP19

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84419
 Long: 175.06928
Elevation: 5.57(m)
Inclination:

Date Drilled: 12/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram	
0.50		Amorphous to fibrous PEAT, with wood fragments and rootlets; black and dark brown mottled orange. Soft; wet to saturated; low to high plasticity. (SWAMP & LAKE DEPOSITS)		0	0			
0.50	Wood fragment.	0.50		2	2	22 - 16		
1				1	10	10	35 - 25	
1.50				1.50	15	15	92 - 54	
		HA/DCP19 refusal due to obstruction at 1.9m		1.9	18	121 - 95		



Borehole Record: HA/DCP20

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84521
 Long: 175.06987
Elevation: 5.57(m)
Inclination:

Date Drilled: 06/12/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		Amorphous to fibrous PEAT, trace fine grained sand, wood fragmentes; black and dark brown, orange stained. Soft to firm; wet, (SWAMP & LAKE DEPOSITS)		0.50		31 - 19	
1.00				1.00		37 - 28	
1.25		Loss of sample		1.25			
1.50				1.50		43 - 28	
2.00		Fine grained SAND some silt; dark grey. Dense; saturated. (AEOLIAN DEPOSITS)		2.00		80 - 59	
2.50				2.50			
HA/DCP20 Hole collapse at 2.8m							



Borehole Record: HA/DCP21

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84515
 Long: 175.06865
Elevation: 5.48(m)
Inclination:

Date Drilled: 06/12/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		Amorphous PEAT, trace sand, with wood fragments; black and dark brown. Soft to firm; wet; sand is fine. (SWAMP & LAKE DEPOSITS)		0.50	~1	37 - 28	
1.00		Fine grained SAND minor silt; dark grey. Wet. (AEOLIAN DEPOSITS)		1.00	~10	121 - 53	
1.50				1.50	~20	UTP -	
		HA/DCP21 Hole collapse at 1.8m					



Borehole Record: HA/DCP22

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84591
 Long: 175.06980
Elevation: 5.63(m)
Inclination:

Date Drilled: 01/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		ORGANIC SILT; some rootlets; black. Soft; moist; non-plastic. (TOPSOIL) Fibrous to Amorphous PEAT, with wood fragments and roots; black mottled dark brown. Very loose; wet to saturated. (SWAMP & LAKE DEPOSITS)	0.50	0.50	~1	19 - 6	
1.00		Becomes sandy, sand fine grained. Organic fine grained SAND, with wood fragments; dark grey. Loose; saturated. (BEACH DEPOSITS)		1.00	~10	54 - 25	
1.50		Fine grained SAND, some silt; dark grey. Medium dense to dense; saturated. (BEACH DEPOSITS)		1.50	~15	143 - 57	
1.80		HA/DCP22 Hole collapse at 1.8m		1.80	~20		



Borehole Record: HA/DCP23

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84614
 Long: 175.06864
Elevation: 6.98(m)
Inclination:

Date Drilled: 07/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.50		Silty fine grained SAND; greyish brown, mottled brown. Loose; moist. (TOPSOIL) Fine grained SAND, some silt; greyish brown. Medium dense to loose; moist to wet. (AEOLIAN DEPOSITS)		0.00 - 0.50	0 - 4	UTP -	
0.50 - 1.50		Silty fine grained SAND; greyish brown and brown. Medium dense; Saturated. (AEOLIAN DEPOSITS) Amorphous to fibrous PEAT, trace fine grained sand; black mottled dark brown. Soft; wet; low to medium plasticity. (SWAMP & LAKE DEPOSITS)		0.50 - 1.50	4 - 10	UTP -	
1.50 - 2.00		Fine grained SAND, some silt; greyish brown and dark grey. Dense; saturated. (BEACH DEPOSITS)		1.50 - 2.00	10 - 18	UTP -	
2.00 - 2.50				2.00 - 2.50	18 - 22	UTP -	
2.50 - 2.60		HA/DCP23 Hole collapse at 2.6m		2.50 - 2.60	22 - 24	UTP -	
2.60 - 3.00				2.60 - 3.00	24 - 26	UTP -	



Borehole Record: HA/DCP24

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84696
 Long: 175.06968
Elevation: 5.71(m)
Inclination:

Date Drilled: 29/10/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		ORGANIC SILT, some rootlets, dark brown to black. Soft; wet; low plasticity. (TOPSOIL) Fibrous to amorphous PEAT, trace fine sand, some wood fragments and rootlets, black mottled brown. Soft; saturated. (SWAMP & LAKE DEPOSITS)			41 - 25		
1		Fine grained SAND, some silt; darkgrey. Medium dense to dense; wet to saturated. (BEACH DEPOSITS)			190 - 70		
		HA/DCP24 Hole collapse at 1.5m				222 -	



Borehole Record: HA/DCP25

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84796
 Long: 175.06970
Elevation: 5.95(m)
Inclination:

Date Drilled: 12/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		Amorphous to fibrous PEAT, with rootlets; black mottled dark brown. Very soft; wet to saturated; low to high plasticity. (SWAMP & LAKE DEPOSITS)					
		Organic fine grained SAND some silt; dark brown mottled greyish brown. Very loose to loose; wet. (BEACH DEPOSITS)				19 - 13	
1		Fine grained SAND, minor silt; dark grey. Medium dense to dense; saturated. (BEACH DEPOSITS)				UTP -	
		HA/DCP25 Hole collapse at 1.5m					



Borehole Record: HA/DCP26

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84786
 Long: 175.06861
Elevation: 5.67(m)
Inclination:

Date Drilled: 12/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.50		ORGANIC SILT, some rootlets; dark brown. Soft; moist; low plasticity. (TOPSOIL) Amorphous PEAT, trace fine sand, some rootlets; black mottled dark brown. Soft; saturated; low to high plasticity. (SWAMP & LAKE DEPOSITS) Tree root.		0.00 - 0.50		22 - 16	
0.50 - 1.00		Organic fine grained SAND, some silt, trace rootlets; dark grey mottled dark brown. Medium dense; wet to saturated; non-plastic. (BEACH DEPOSITS)		0.50 - 1.00		89 - 38	
1.00 - 1.50		Fine grained SAND, minor silt, trace rootlets; dark grey. Medium dense to dense; saturated. (BEACH DEPOSITS)		1.00 - 1.50		UTP -	
1.50 - 1.70		HA/DCP26 Hole collapse at 1.7m		1.50 - 1.70			



Borehole Record: HA/DCP27

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84703
 Long: 175.06869
Elevation: 5.62(m)
Inclination:

Date Drilled: 12/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		Amorphous PEAT; black mottled dark brown. Soft; wet to saturated; low to medium plasticity. (SWAMP & LAKE DEPOSITS)		0	0		
		Gradually becomes sandy.		0.50	2	22 - 16	
1				1	4	29 - 19	
1.50				1.50	6	48 - 32	
2		Fine grained SAND, minor silt; dark grey. Medium dense to dense; wet to saturated. (BEACH DEPOSITS) Becomes saturated.		2	8	79 - 35	
2.50			2.50	10	UTP -		
		HA/DCP27 Hole collapse at 2.7m		12			
				14			
				16			
				18			
				20			
				22			
				24			
				26			



Borehole Record: HA/DCP28

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84698
 Long: 175.06731
Elevation: 10.17(m)
Inclination:

Date Drilled: 07/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH





Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00		Sandy SILT, some organics, trace rootlets; dark brown. Stiff; moist; sand is fine grained. (TOPSOIL)		0.00	~1		
0.50		Silty fine grained SAND; brown. Loose to medium dense; moist. (AEOLIAN DEPOSITS)		0.50	~2	127 - 54	
1.00		Fine SAND, some silt; greyish brown. Medium dense; moist. (AEOLIAN DEPOSITS)		1.00	~4	UTP -	
1.50				1.50	~6	UTP -	
2.00		Becomes dense.		2.00	~8	UTP -	
2.50				2.50	~10	UTP -	
3.00		Becomes very dense and moist to wet.		3.00	~12	UTP -	
3.50				3.50	~14		
4.00		Becomes wet.		4.00	~16		
4.50				4.50	~18		
HA/DCP28 Target depth achieved at 5m							

Borehole Record: HA/DCP29

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84662
 Long: 175.06591
Elevation: 6.43(m)
Inclination:

Date Drilled: 07/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.25		Silty fine grained SAND, trace rootlets; brown. Loose; moist. (TOPSOIL)		0.00 - 0.25	~1		
0.25 - 0.50		Silty fine grained SAND; brown. Loose to medium dense; moist. (AEOLIAN DEPOSITS)		0.25 - 0.50	~4		
0.50 - 1.30		Fine SAND, trace silt; dark grey. Dense; Wet. (AEOLIAN DEPOSITS)		0.50 - 1.30	~10	UTP -	
1.30 - 1.50		Becomes saturated.	▼	1.30 - 1.50	~12	UTP -	
1.50 - 2.80		Becomes very dense.		1.50 - 2.80	~20	UTP -	
2.80 - 2.85		HA/DCP29 Hole collapse at 2.8m		2.80 - 2.85	~22		



Borehole Record: HA/DCP30

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84624
 Long: 175.06488
Elevation: 5.34(m)
Inclination:

Date Drilled: 07/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.50		SILT, some fine grained sand, minor rootlets; dark brown mottled brown. Soft; wet; low plasticity. (TOPSOIL) Amorphous PEAT, minor rootlets; black mottled dark brown. XX; moist to wet. (SWAMP & LAKE DEPOSITS)		0.00 - 0.50		29 - 22	
0.50 - 1.00		Becomes saturated.		0.50 - 1.00		32 - 22	
1.00 - 1.50		Organic fine grained SAND, some silt, trace rootlets; dark grey mottled dark brown. Medium dense; saturated. (BEACH DEPOSITS)		1.00 - 1.50		76 - 44	
1.50 - 2.00		Fine SAND, minor silt, with wood fragments; dark grey. dense to very dense; wet to saturated. (AEOLIAN DEPOSITS)		1.50 - 2.00		111 - 70	
2.00 - 2.20		HA/DCP30 Hole collapse at 2.2m		2.00 - 2.20			

Borehole Record: HA/DCP31

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84714
 Long: 175.06507
Elevation: 6.00(m)
Inclination:

Date Drilled: 29/10/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH


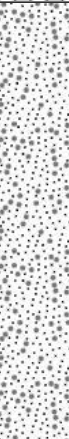


Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.10		SILT, some fine sand, some rootlets; dark brown. Firm; moist; non-plastic. (TOPSOIL)		0.00 - 0.10	~1		
0.10 - 0.50		Silty fine SAND, trace rootlets; brownish grey mottled brown. Loose; moist to wet. (AEOLIAN DEPOSITS)		0.10 - 0.50	~2		
0.50 - 0.90		Fine SAND, minor silt; brownish grey and dark grey. Loose to medium dense; wet. (AEOLIAN DEPOSITS)		0.50 - 0.90	~3	38 - 22	
0.90 - 1.50		Becomes saturated. Fine grained SAND, minor silt, minor rootlets; dark grey and brown. Medium dense; saturated. (BEACH DEPOSITS)		0.90 - 1.50	~10	51 - 32	
1.50 - 1.55		HA/DCP31 refusal due to obstruction at 1.5m		1.50 - 1.55	~15	111 - 41	

Borehole Record: HA/DCP32

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84693
 Long: 175.06371
Elevation: 6.02(m)
Inclination:

Date Drilled: 07/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH


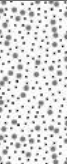
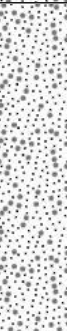
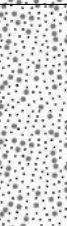
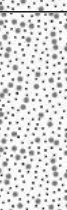

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.25		SILT, some fine grained sand, minor rootlets; dark brown mottled brown. Soft; moist to wet; non-plastic. (TOPSOIL)		0.00 - 0.25	~1		
0.25 - 1.00		Fine grained SAND, minor silt; brownish grey mottled brown. Medium dense; moist to wet. (AEOLIAN DEPOSITS)		0.25 - 1.00	~4 to 6	UTP -	
1.00 - 1.70		Fine SAND, trace silt; dark grey. Dense; wet. (AEOLIAN DEPOSITS) Becomes saturated.		1.00 - 1.70	~8 to 12	UTP -	
1.70 - 2.00	HA/DCP32 Hole collapse at 1.7m			1.70 - 2.00	~15 to 20		

Borehole Record: HA/DCP33

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84788
 Long: 175.06384
Elevation: 7.30(m)
Inclination:

Date Drilled: 07/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH



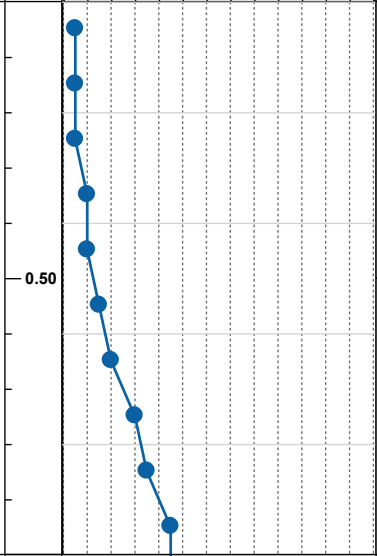
Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00		SILT, some organics, minor fine grained sand; black and dark brown. Soft; moist. (TOPSOIL)		0.00	~1		
0.50		Silty fine grained SAND, trace rootlets; brownish grey and brown. Loose to medium dense; moist. (AEOLIAN DEPOSITS)		0.50	~5	127 - 54	
1.00		Fine SAND, minor silt; brownish grey. Loose; moist. (AEOLIAN DEPOSITS)		1.00	~10	UTP -	
1.50				1.50	~12	UTP -	
2.00		Becomes wet.		2.00	~15	UTP -	
2.50		Becomes saturated.		2.50	~18	UTP -	
3.00		HA/DCP33 Hole collapse at 3m		3.00	~20	UTP -	

Borehole Record: HA/DCP34

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84523
 Long: 175.06655
Elevation: 5.81(m)
Inclination:

Date Drilled: 07/11/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		<p>SILT some fine to medium grained sand, trace rootlets; dark brown. Soft; moist; non-plastic. (TOPSOIL)</p> <p>Silty fine to medium SAND, trace rootlets; brownish grey. Loose; wet. (AEOLIAN DEPOSITS)</p>			86 - 38	
		<p>HA/DCP34 Hole collapse at 1m</p>			UTP -	



Borehole Record: HA/DCP35

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84426
 Long: 175.06733
Elevation: 5.35(m)
Inclination:

Date Drilled: 06/12/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

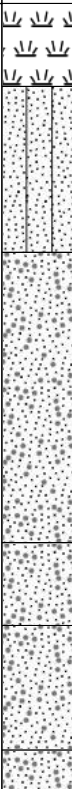
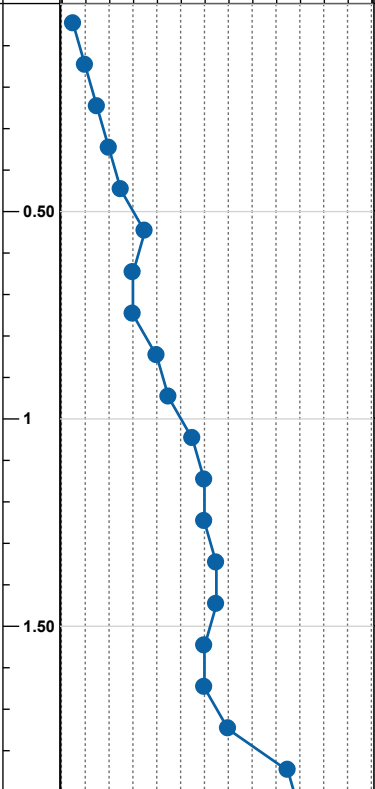
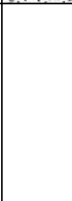



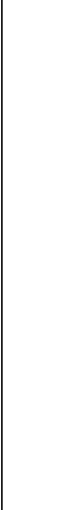
Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		Amorphous PEAT with wood fragments; black and dark brown. Soft; wet. (SWAMP & LAKE DEPOSITS)		0.50	~8		
1.00		Loss of sample Fine grained SAND minor silt; some rootlets; dark grey. Wet. (AEOLIAN DEPOSITS) Becomes saturated and very dense.		1.00	~10	UTP -	
1.50				1.50	~18		
		HA/DCP35 Hole collapse at 1.6m					

Borehole Record: HA/DCP36

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84438
 Long: 175.06605
Elevation: 6.6(m)
Inclination:

Date Drilled: 31/10/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH


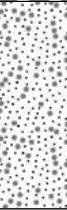
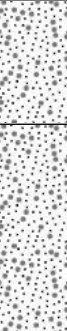

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		<p>SILT some organics, some fine to medium grained sand, trace rootlets; dark brown. Soft; moist; non-plastic. (TOPSOIL)</p> <p>Silty fine grained SAND; greyish brown. Medium dense; moist. (AEOLIAN DEPOSITS)</p>			UTP -	
1		<p>Fine to medium SAND, minor silt; brownish grey. Medium dense to dense; moist. (AEOLIAN DEPOSITS)</p>			UTP -	
1.50		<p>Becomes wet.</p>			UTP -	
		<p>Becomes saturated.</p>				
		<p>Becomes very dense.</p>				
<p>HA/DCP36 Hole collapse at 1.9m</p>						

Borehole Record: HA/DCP37

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84337
 Long: 175.06739
Elevation: 7.26(m)
Inclination:

Date Drilled: 29/10/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.25		SILT some fine grained sand, some rootlets; dark brown. Stiff; moist; non-plastic. (TOPSOIL)		0.00 - 0.25	~1		
0.25 - 0.50		Fine SAND, minor silt; brown. Medium dense; moist. (AEOLIAN DEPOSITS)		0.25 - 0.50	~3	86 - 38	
0.50 - 1.00		Becomes wet and brownish grey.		0.50 - 1.00	~5		
1.00 - 1.50		Fine SAND, trace silt; grey. Dense; moist to wet. (BEACH DEPOSITS)		1.00 - 1.50	~10	79 - 51	
1.50 - 2.00				1.50 - 2.00	~15	159 - 51	
2.00 - 2.50				2.00 - 2.50	~20	UTP -	
2.50 - 2.90		Becomes saturated, very dense and dark grey.		2.50 - 2.90	~25	UTP -	
2.90 - 3.00		HA/DCP37 Hole collapse at 2.9m		2.90 - 3.00	~28		



Borehole Record: HA/DCP38

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84338
 Long: 175.06630
Elevation: 5.23(m)
Inclination:

Date Drilled: 06/12/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.50		Organic Silty fine SAND, some rootlets; dark brown. Very loose; moist. (TOPSOIL) Amorphous PEAT with wood fragments; black. Firm; wet to saturated. (SWAMP & LAKE DEPOSITS)		0.00 - 0.50			
0.50 - 1.00		Becomes saturated.		0.50 - 1.00		59 - 43	
1.00 - 1.50				1.00 - 1.50		37 - 25	
1.50 - 2.00				1.50 - 2.00		53 - 28	
2.00 - 2.50		Fine grained SAND minor silt; dark grey. Dense; saturated. (AEOLIAN DEPOSITS) Becomes very dense.		2.00 - 2.50		115 - 50	
2.50 - 2.50		HA/DCP38 Hole collapse at 2.5m				UTP -	



Borehole Record: HA/DCP39

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84237
 Long: 175.06760
Elevation: 5.51(m)
Inclination:

Date Drilled: 06/12/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.50		Organic silty fine SAND, trace rootlets; dark brown. Very loose; moist. (TOPSOIL) Amorphous PEAT with wood fragments; black and dark brown. Soft to firm; wet. (SWAMP & LAKE DEPOSITS)		0.00 - 0.50		34 - 25	
0.50 - 1.50		Becomes saturated. Fine grained SAND minor silt; dark grey. Wet to saturated. (AEOLIAN DEPOSITS)		0.50 - 1.50		43 - 34 UTP - UTP -	
		HA/DCP39 Target depth achieved at 2m		1.50 - 2.00			



Borehole Record: HA/DCP40

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84220
 Long: 175.06878
Elevation: 6.08(m)
Inclination:

Date Drilled: 06/12/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		Organic SILT, some fine sand, some rootlets; dark brown. Soft to firm; moist; low plasticity. (TOPSOIL) Root / wood fragment.		0.50	~1	99 - 40	
1.00		Organic silty fine SAND; dark grey and dark brown. Medium dense; wet. (AEOLIAN DEPOSITS) Fine grained SAND, minor silt; dark grey. Medium dense to dense; saturated. (AEOLIAN DEPOSITS) Becomes very dense.		1.00	~10	UTP -	
		HA/DCP40 Hole collapse at 1.5m					



Borehole Record: HA/DCP41

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84171
 Long: 175.06737
Elevation: 5.38(m)
Inclination:

Date Drilled: 06/12/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH


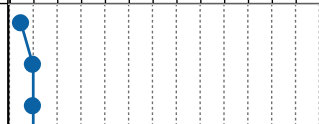
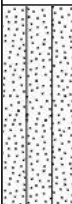
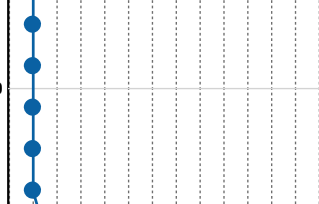

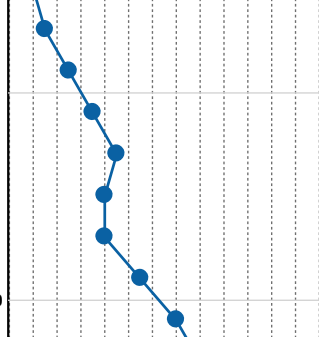
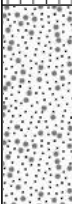
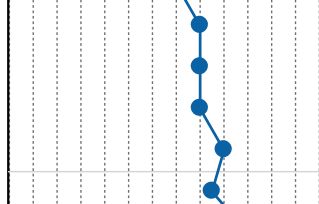
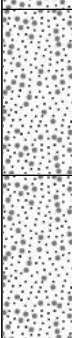

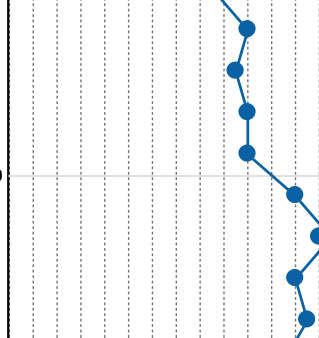
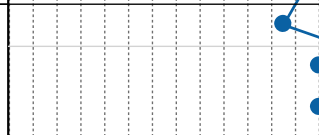
Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.50	Organic silty fine grained SAND, some rootlets; dark brown. Very loose; wet to moist. (TOPSOIL)		~0.50	0.00 - 0.50	~2-4	32 - 29	
0.50 - 1.50	Fibrous to amorphous PEAT, wood fragments; black and dark brown mottled orange brown. Soft to firm; wet to saturated. (SWAMP & LAKE DEPOSITS)			0.50 - 1.50	~4-10	38 - 32	
1.50 - 2.00	Loss of sample / wood fragment.			1.50 - 2.00	~10-15	UTP -	
2.00 - 2.50	Loss of sample / wood fragment.			2.00 - 2.50	~12-18		
2.50 - 3.00	Loss of sample / wood fragment.			2.50 - 3.00	~15-20		
3.00 - 3.10	Fine grained SAND, some silt, some wood fragments; dark grey. Very dense; saturated. (AEOLIAN DEPOSITS)			3.00 - 3.10	~20-25		
3.10 - 3.15	HA/DCP41 refusal in dense material at 3.1m (Refusal on buried wood.)			3.10 - 3.15	~25		

Borehole Record: HA/DCP42

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84123
 Long: 175.06873
Elevation: 8.02(m)
Inclination:

Date Drilled: 31/10/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH



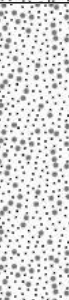

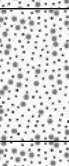
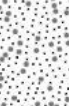

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.50		Organic silty fine grained SAND, trace rootlets; black and brown. Loose; moist; non-plastic. (TOPSOIL) Silty fine SAND; brownish grey. Loose; moist. (AEOLIAN DEPOSITS)		0.00 - 0.50			
0.50 - 1.00		Fine to medium SAND, minor silt; grey. Medium dense to dense; moist. (AEOLIAN DEPOSITS)		0.50 - 1.00		117 - 48	
1.00 - 2.00		Fine SAND, minor silt; brownish grey. Dense to very dense; moist. (AEOLIAN DEPOSITS)		1.00 - 2.00		UTP -	
2.00 - 2.50		Becomes wet.		2.00 - 2.50			
2.50 - 2.90		Becomes saturated.		2.50 - 2.90			
2.90 - 3.00		HA/DCP42 Hole collapse at 2.9m		2.90 - 3.00			

Borehole Record: HA/DCP43

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84147
 Long: 175.06578
Elevation: 7.28(m)
Inclination:

Date Drilled: 31/10/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

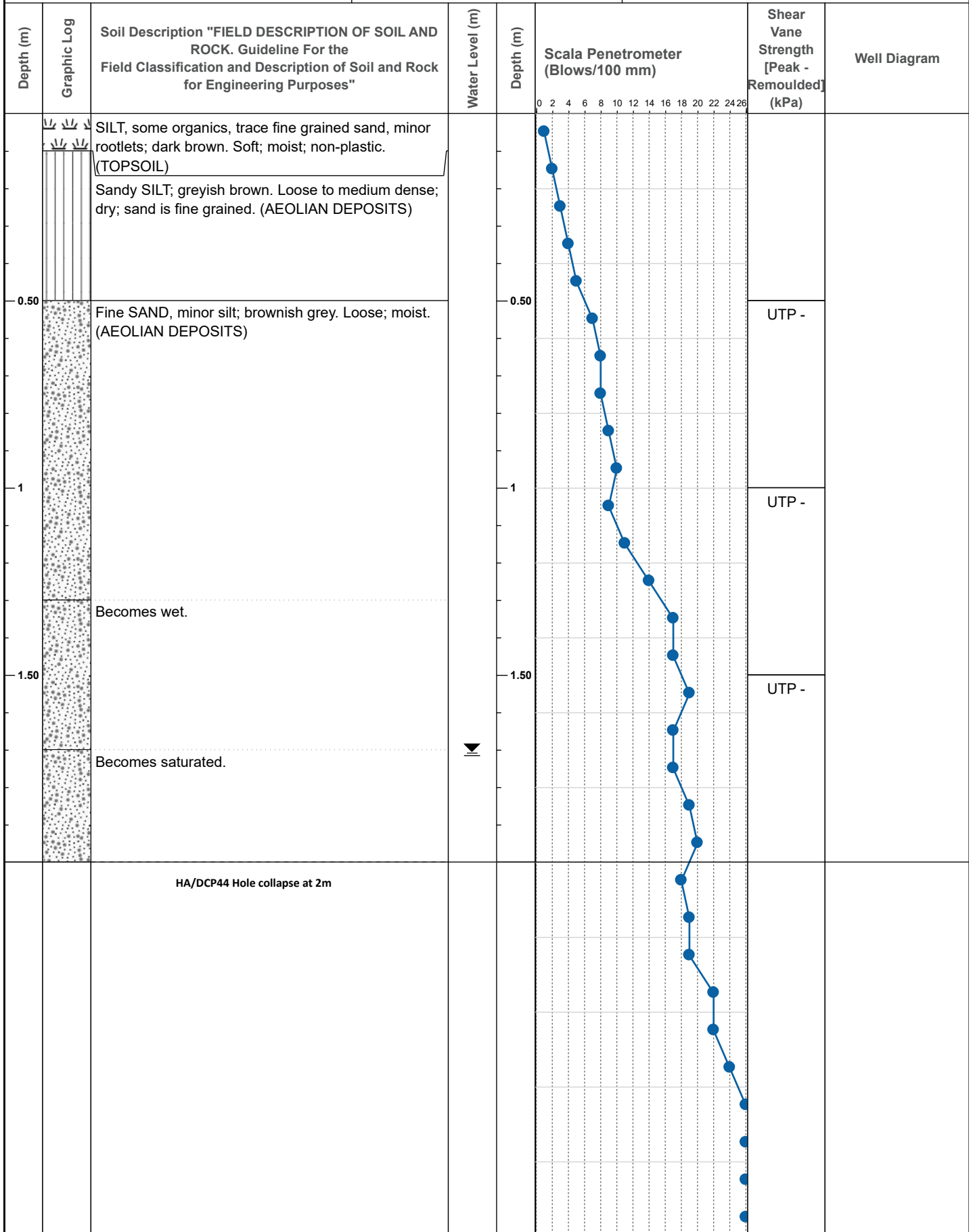
Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00		SILT, some fine grained sand, trace rootlets; dark brown. Soft; moist to wet; non-plastic. (TOPSOIL)		0.00	~1		
0.50		Silty fine grained SAND; brownish grey. Loose; moist. (AEOLIAN DEPOSITS)		0.50	~2		
1.00		Fine SAND, some silt; greyish brown. Medium dense to dense; moist. (AEOLIAN DEPOSITS)		1.00	~4	114 - 38	
1.50		Red-brown staining.		1.50	~6	UTP -	
2.00		Becomes wet.		2.00	~8	UTP -	
2.50		Becomes saturated.		2.50	~10	UTP -	
2.60	HA/DCP43 Hole collapse at 2.6m						

Borehole Record: HA/DCP44

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84357
 Long: 175.06508
Elevation: 6.63(m)
Inclination:

Date Drilled: 31/10/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH





Borehole Record: HA/DCP45

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84327
 Long: 175.06416
Elevation: 6.65(m)
Inclination:

Date Drilled: 31/10/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.50		SILT, some organics, trace fine grained sand, minor rootlets; dark brown. Soft; moist; non-plastic. (TOPSOIL) Silty fine grained SAND; greyish brown. Loose; moist. (AEOLIAN DEPOSITS)		0.00 - 0.50		95 - 44	
0.50 - 1.00		Fine SAND, minor silt; brownish grey. Loose; moist to wet. (AEOLIAN DEPOSITS)		0.50 - 1.00		44 - 35	
1.00 - 1.50				1.00 - 1.50		54 - 25	
1.50 - 2.00		Becomes saturated.		1.50 - 2.00		60 - 35	
2.00 - 2.30		HA/DCP45 Hole collapse at 2.3m		2.00 - 2.30			



Borehole Record: HA/DCP46

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84412
 Long: 175.06346
Elevation: 5.36(m)
Inclination:

Date Drilled: 30/10/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.50		Organic SILT, trace fine grained sand, trace rootlets; Dark brown. Soft; moist to wet; non-plastic. (TOPSOIL) Silty fine grained SAND; brownish grey. Medium dense; wet. (AEOLIAN DEPOSITS) Fine SAND, some silt; greyish brown. Medium dense to dense; moist. (AEOLIAN DEPOSITS)		0.00 - 0.50		UTP -	
0.50 - 1.10		Becomes saturated.		0.50 - 1.10		UTP -	
1.10 - 2.00	HA/DCP46 Hole collapse at 1.1m			1.10 - 2.00			

Borehole Record: HA/DCP47

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84500
 Long: 175.06228
Elevation: 8.17(m)
Inclination:

Date Drilled: 29/10/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH



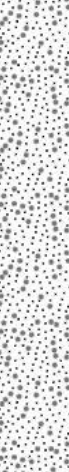


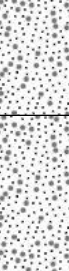

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.50		SILT; some fine grained sand, some rootlets; dark brown. Firm; moist; non-plastic. (TOPSOIL) Fine sand, minor silt; brownish grey. Loose; moist. (AEOLIAN DEPOSITS)		0.00 - 0.50		67 - 41	
0.50 - 1.00				0.50 - 1.00		63 - 41	
1.00 - 1.50				1.00 - 1.50		82 - 38	
1.50 - 2.00				1.50 - 2.00		127 - 41	
2.00 - 2.50		Silty fine grained SAND; brown and greyish brown. Loose to medium dense; moist to wet. (AEOLIAN DEPOSITS)		2.00 - 2.50		79 - 29	
2.50 - 3.00				2.50 - 3.00		159 - 60	
3.00 - 3.50		Fine grained SAND, trace silt; brownish grey and dark grey. Dense; moist to wet. (AEOLIAN DEPOSITS)		3.00 - 3.50		174 - 70	
3.50 - 4.00		Becomes saturated and very dense.		3.50 - 4.00		UTP -	
HA/DCP47 Hole collapse at 4m							

Borehole Record: HA/DCP48

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84579
 Long: 175.06143
Elevation: 6.74(m)
Inclination:

Date Drilled: 30/10/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH


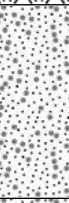
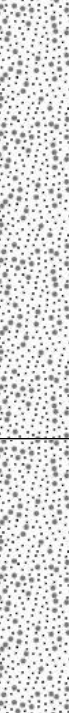
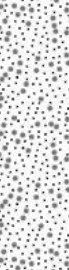

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.25		SILT; minor fine grained sand, some rootlets; dark brown. Firm; moist; non-plastic. (TOPSOIL)		0.00 - 0.25	~1		
0.25 - 0.50		Fine grained SAND, some silt; brownish grey. Loose; moist. (AEOLIAN DEPOSITS)		0.25 - 0.50	~2-4	63 - 44	
0.50 - 1.50		Silty fine grained SAND; brown. Medium dense; moist. (AEOLIAN DEPOSITS)		0.50 - 1.50	~4-6	63 - 38	
1.50 - 2.00		SILT, minor fine grained sand; dark brown. Medium dense; moist; low plasticity. (AEOLIAN DEPOSITS)		1.50 - 2.00	~6-8	136 - 63	
2.00 - 2.50		Fine grained SAND, minor silt; dark grey and brown. Medium dense; moist to wet. (BEACH DEPOSITS)		2.00 - 2.50	~8-10	159 - 57	
2.50 - 2.70		Becomes saturated and dense.		2.50 - 2.70	~12-14	UTP -	
2.70 - 3.00	HA/DCP48 Hole collapse at 2.7m			2.70 - 3.00	~16-18		

Borehole Record: HA/DCP49

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84654
 Long: 175.06090
Elevation: 5.75(m)
Inclination:

Date Drilled: 30/10/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.25		Fine grained sandy SILT, some rootlets; dark brown. Soft; moist. (TOPSOIL)		0.00 - 0.25	~1		
0.25 - 0.50		Fine SAND, minor silt; greyish brown. loose to medium dense; moist. (AEOLIAN DEPOSITS)		0.25 - 0.50	~2	95 - 44	
0.50 - 1.50		Fine SAND, minor silt; greyish brown. Medium dense to dense; wet. (AEOLIAN DEPOSITS)		0.50 - 1.50	~4	UTP -	
1.50 - 1.90		Becomes wet saturated.		1.50 - 1.90	~10	UTP -	
1.90 - 2.00		HA/DCP49 Hole collapse at 1.9m		1.90 - 2.00	~15		



Borehole Record: Piezo 01

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84746
 Long: 175.06986
Elevation: 5.78(m)
Inclination:

Date Drilled: 04/12/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
					0 2 4 6 8 10 12 14 16 18 20 22 24 26		
0.50		<p>SILT, trace sand, wood fragmentes; dark brown. Firm; moist, low plasticity; sand is fine grained. (TOPSOIL)</p> <p>Amorphous to fibrous PEAT with wood fragments; black and dark brown. Soft to firm; wet to saturated. (SWAMP & LAKE DEPOSITS)</p>		0.50			
1.50		<p>Fine grained SAND, minor silt; dark grey and greyish brown. Wet to saturated.</p>		1.50			
		<p>Piezo 01 Hole collapse at 1.9m (The piezometer base is at 1.7 mbgl.)</p>					



Borehole Record: Piezo 02

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84598
 Long: 175.07393
Elevation: 7.10(m)
Inclination:

Date Drilled: 04/12/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
					0 2 4 6 8 10 12 14 16 18 20 22 24 26		
0.00 - 0.50		Organic SILT, some sand, minor rootlets. Black and dark brown. Moist to wet; sand is fine grained. (TOPSOIL) Amorphous to fibrous PEAT with wood fragments; black and dark brown. Soft to firm; wet to saturated. (SWAMP & LAKE DEPOSITS)		0.00 - 0.50			
0.50 - 1.00		Fine grained SAND, some silt; greyish brown. Wet to saturated.		1.00			
1.00 - 1.50				1.50			
1.50 - 1.80		Piezo 02 Hole collapse at 1.8m (The piezometer base is at 1.6 mbgl.)					



Borehole Record: Piezo 03

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84665
 Long: 175.06530
Elevation: 6.67(m)
Inclination:

Date Drilled: 04/12/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
					0 2 4 6 8 10 12 14 16 18 20 22 24 26		
0.00		Silty fine grained SAND, trace rootlets; dark brown. Moist. (TOPSOIL)					
0.50		Fine grained SAND, trace silt; greyish brown and grey. Moist. (AEOLIAN DEPOSITS)					
1.00							
1.50		Becomes wet and dark grey.					
2.00		Becomes saturated.					
2.50		Piezo 03 Hole collapse at 2.5m (Piezo's base is at 2.5 mbgl.)					



Borehole Record: Piezo 04

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84363
 Long: 175.06779
Elevation: 6.34(m)
Inclination:

Date Drilled: 04/12/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		Silty fine grained SAND, trace rootlets; dark brown. Moist. (TOPSOIL)			0 2 4 6 8 10 12 14 16 18 20 22 24 26		
0.50		Fine grained SAND, minor silt; greyish brown. Moist. (AEOLIAN DEPOSITS)		0.50		84 - 40	
1		Becomes wet and dark grey.		1		UTP -	
1.50		Becomes saturated.		1.50		UTP -	
		Piezo 04 Hole collapse at 1.7m (Piezo's base is at 1.5 mbgl.)					



Borehole Record: Piezo 05

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84488
 Long: 175.06211
Elevation: 8.82(m)
Inclination:

Date Drilled: 04/12/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC/CH

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
					0 2 4 6 8 10 12 14 16 18 20 22 24 26		
0.00		Silty fine SAND, trace rootlets; dark brown. Moist. (TOPSOIL)					
0.50		Fine grained SAND, minor silt; brownish grey. Moist.(AEOLIAN DEPOSITS)				177 - 62	
1.00		Silty sand lenses, 2 to 5 cm thick, interbedded, dark brown.				140 - 68	
1.50		Silty sand lenses, 2 to 5 cm thick, interbedded, brown.				53 - 37	
2.00		Fine grained SAND, minor silt; brownish grey. Moist.(AEOLIAN DEPOSITS)				109 - 59	
2.50		Silty sand lenses, 2 to 5 cm thick, interbedded, brown.				40 - 37	
3.00		Fine grained SAND, minor silt; dark grey and greyish brown. Moist to wet. (AEOLIAN DEPOSITS)				115 - 68	
3.50		Fine grained SAND, minor silt; dark grey and greyish brown. Moist to wet. (AEOLIAN DEPOSITS)				112 - 62	
4.00		Becomes wet.				155 - 81	
4.50		Becomes saturated.				155 - 74	
Piezo 05 Hole collapse at 5m (The piezometer base is at 4.6 m bgl.)							



Borehole Record: Stage 1 - HA/DCP01

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84633
 Long: 175.07535
Elevation: 9(m)
Inclination:

Date Drilled: 06/08/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC

General comments: Groundwater encountered at 0.3 m bgl

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00 - 0.50		SILT organic, black, soft, moist, non-plastic, (TOPSOIL)		0.00 - 0.50	0 - 2		
0.50 - 1.00		Fibrous and amorphous PEAT, black, very loose, wet to moist, (SWAMP & LAKE DEPOSITS)		0.50 - 1.00	2 - 10	32 - 19	
1.00 - 1.50		Fibrous and amorphous PEAT, black, very loose, wet, (SWAMP & LAKE DEPOSITS)		1.00 - 1.50	10 - 15	25 - 16	
1.50 - 2.00		Amorphous PEAT, Sandy black, very loose, wet, (SWAMP & LAKE DEPOSITS)		1.50 - 2.00	15 - 20	41 - 29	
2.00 - 2.50		Silty SAND, dark grey. medium dense to dense; wet, fine grained, (AEOLIAN)		2.00 - 2.50	20 - 30	67 - 32	
2.50 - 2.75		Stage 1 - HA/DCP01 Hole collapse at 2.75m		2.50 - 2.75	30 - 40	127 - 57	



Borehole Record: Stage 1 - HA/DCP02

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84682
 Long: 175.07621
Elevation: 9(m)
Inclination:

Date Drilled: 06/08/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC

General comments: Groundwater encountered at 0.2 m bgl

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		SILT organic, black, soft, moist, non-plastic, (TOPSOIL)		0	0		
0.50		Amorphous PEAT, black. very loose, wet, (SWAMP & LAKE DEPOSITS)		0.2	1	1	35 - 22
1.00				0.50	2		
1.00				1.00	3		
1.00				1.25	4		
1.00				1.50	5		
1.50				1.75	6		
1.50				2.00	7		
1.50				2.25	8		
1.50				2.50	9		
2.00		Silty SAND, dark grey. medium dense to dense; wet, fine grained, (AEOLIAN)		2.00	10		
2.00				2.25	11		
2.00				2.50	12		
2.00				2.75	13		
2.00				3.00	14		
2.50				3.25	15		
2.50				3.50	16		
2.50				3.75	17		
2.50				4.00	18		
2.50				4.25	19		
2.50				4.50	20		
2.50				4.75	21		
2.50				5.00	22		
2.50				5.25	23		
2.50				5.50	24		
2.50				5.75	25		
2.50				6.00	26		
		Stage 1 - HA/DCP02 Hole collapse at 2.6m		6.25	27	UTP - UTP	
				6.50	28		
				6.75	29		
				7.00	30		
				7.25	31		
				7.50	32		
				7.75	33		
				8.00	34		
				8.25	35		
				8.50	36		
				8.75	37		
				9.00	38		
				9.25	39		
				9.50	40		
				9.75	41		
				10.00	42		



Borehole Record: Stage 1 - HA/DCP03

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84711
 Long: 175.07530
Elevation: 9(m)
Inclination:

Date Drilled: 06/08/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC

General comments: Groundwater encountered at 0.8 mbgl

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		Sandy SILT fine grained sand, organic, black, soft, wet, non-plastic, (TOPSOIL) Amorphous PEAT, black. very loose, wet, (SWAMP & LAKE DEPOSITS)		0.50	~3	25 - 16	
1.00				1.00	~4	32 - 22	
1.50				1.50	~5	35 - 19	
2.00		Silty SAND, dark grey. medium dense to dense; wet, fine grained, (AEOLIAN)		2.00	~11	114 - 63	
2.50				2.50	~15	152 - 73	
		Stage 1 - HA/DCP03 Hole collapse at 2.6m					



Borehole Record: Stage 1 - HA/DCP04

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84649
 Long: 175.07579
Elevation: 9(m)
Inclination:

Date Drilled: 07/08/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC

General comments: Groundwater encountered at 0.2 m bgl

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		Sandy SILT fine grained sand, organic, dark brown, soft, wet to moist, non-plastic, (TOPSOIL)		0.2	~1		
0.50		Amorphous PEAT, black. loose, wet, (SWAMP & LAKE DEPOSITS)		0.5	~2	41 - 32	
1				1	~4	48 - 35	
						UTP - UTP	
		Stage 1 - HA/DCP04 refusal due to obstruction at 1.4m (Refusal on buried wood fragment.)		1.4	~15		
				1.5	~18		
				1.6	~22		
				1.7	~25		
				1.8	~28		
				1.9	~32		
				2.0	~35		
				2.1	~38		
				2.2	~42		
				2.3	~45		
				2.4	~48		
				2.5	~52		
				2.6	~55		
				2.7	~58		
				2.8	~62		
				2.9	~65		
				3.0	~68		
				3.1	~72		
				3.2	~75		
				3.3	~78		
				3.4	~82		
				3.5	~85		
				3.6	~88		
				3.7	~92		
				3.8	~95		
				3.9	~98		
				4.0	~102		
				4.1	~105		
				4.2	~108		
				4.3	~112		
				4.4	~115		
				4.5	~118		
				4.6	~122		
				4.7	~125		
				4.8	~128		
				4.9	~132		
				5.0	~135		



Borehole Record: Stage 1 - HA/DCP05

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84688
 Long: 175.07660
Elevation: 8.99(m)
Inclination:

Date Drilled: 07/08/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC

General comments: Groundwater encountered at 0.2 m bgl

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		Sandy SILT fine grained sand, organic, black, dark brown mottled, soft, moist, non-plastic, (TOPSOIL) Amorphous PEAT, black. loose, wet, (SWAMP & LAKE DEPOSITS)		0.50		UTP - UTP	
1.00				1.00		51 - 48	
1.50				1.50		60 - 32	
2.00		Silty SAND, dark grey. medium dense to dense; wet, fine grained, (AEOLIAN)		2.00		101 - 44	
2.50				2.50		+222 -	
		Stage 1 - HA/DCP05 Hole collapse at 2.8m					



Borehole Record: Stage 1 - HA/DCP06

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84682
 Long: 175.07524
Elevation: 9(m)
Inclination:

Date Drilled: 07/08/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC

General comments: Groundwater encountered at 0.3 m bgl

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.50		SILT organic, black, soft, moist, non-plastic, (TOPSOIL)		0	0		
0.50		Amorphous PEAT, black. loose, wet to moist, (SWAMP & LAKE DEPOSITS)		0.50	2	19 - 16	
1.00				1.00	10	22 - N/A	
1.50				1.50	15	UTP -	
2.00		SAND, black. medium dense; wet, fine grained, (AEOLIAN)		2.00	20		
2.20		Stage 1 - HA/DCP06 refusal due to obstruction at 2.2m (Refusal on a buried wood fragment)		2.20	25		



Borehole Record: Stage 1 - HA/DCP07

Project: Peka Peka Farm - Te Horo
Location: Peka Peka Road, Peka Peka, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.84681
 Long: 175.07558
Elevation: 9(m)
Inclination:

Date Drilled: 07/08/2024
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: JC

General comments: Groundwater encountered at 0.2 m bgl

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.00		Sandy SILT fine grained sand, organic, black, soft, moist, non-plastic, (TOPSOIL)	0.2	0.00	1		
0.50		Amorphous PEAT, black. loose, wet, (SWAMP & LAKE DEPOSITS)		0.50	2	25 - 13	
1.00				1.00	10	25 - 19	
1.50				1.50	15	29 - 16	
2.00		Silty SAND, black. medium dense to dense; wet, fine grained, (AEOLIAN)		2.00	25	51 - 29	
2.50				2.50	45	140 - 51	
3.00				3.00	65	171 - 70	
3.50				3.50	85		
Stage 1 - HA/DCP07 Target depth achieved at 4m							

Borehole Record: HA/DCP050

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 365305.07
 Northing: 732758.80
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 29/04/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: SC/TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m) Scala Penetrometer (Blows/100 mm)	Well Diagram
0.50 1 1.50		<p>SAND, fine to medium, organic, with trace rootlets and plant fibres, dark brown. Loose, moist, poorly graded. (TOPSOIL)</p> <p>PEAT, spongy, with minor sand, trace rootlets and plant fibres, blackish brown. Loose, wet. Sand is fine to medium. (SWAMP & LAKE DEPOSITS)</p> <p>1.0 m - Becomes saturated.</p>			<p>...0-1.9, Backfill</p>
		<p>HA/DCP050 Poor recovery at 1.9m (Hand auger sunk from 1.5 mbgl to 1.9 mbgl.)</p>			

Borehole Record: HA/DCP051/ P07

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 365074.97
 Northing: 732677.42
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 06/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: SC/TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)	Well Diagram
0.50 1		<p>SAND, fine, some silt and gravel, dark brown. Medium dense to dense, moist, poorly graded. (TOPSOIL)</p> <p>SAND, fine to medium, trace plant fibres, dark grey. Loose to medium dense, moist, poorly graded. (DUNE DEPOSITS)</p> <p>SAND, fine to coarse, dark grey. Medium dense to dense, saturated, poorly graded. (DUNE DEPOSITS)</p>			
<p style="text-align: center;">HA/DCP051/ P07 Hole collapse at 1.5m</p>					

Borehole Record: HA/DCP054

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364663.08
 Northing: 732557.16
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 30/04/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: SC/TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)	Well Diagram
0.50 1 1.50		<p>SAND, fine to medium, trace rootlets. Grey, moist, poorly graded. (BEACH DEPOSITS)</p> <p>PEAT, spongy, trace rootlets, dark brown. Loose, moist to wet. (SWAMP & LAKE DEPOSITS)</p> <p>0.9m - Becomes saturated.</p> <p>SAND, fine to coarse, bluey grey. Medium dense to dense, saturated, poorly graded. (ALLUVIAL DEPOSITS)</p>			<p>... 0-1.8, Backfill</p>
		<p>HA/DCP054 Hole collapse at 1.8m</p>			



Borehole Record: HA055

Project: Waikanae North Subdivision	Position: Easting: 365067.66 Northing: 732786.76	Date Drilled: 07/05/2025
Location: 5348+CH Waikanae, Wellington, New Zealand	Elevation: Not Surveyed	Drill Rig: Hand Auger Borehole
Loc Comment:	Inclination: -90 deg	Drill Supplier: CGW
Job No: 21512		Logged/Checked: SC/TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram									
				0	2	4	6	8	10	12	14	16	18	20	22	24		26								
0.50		PEAT, amorphous, with trace rootlets and decomposed wood, dark brownish black. Loose, moist. (SWAMP & LAKE DEPOSITS)																								
1		0.8 m - Trace decomposed wood.																								
		HA055 refusal due to obstruction at 1.2m																								

Borehole Record: HA/DCP056

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364953.23
 Northing: 732766.61
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 06/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: SC/TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m) Scala Penetrometer (Blows/100 mm)	Well Diagram
0.50 1 1.50		<p>SAND, fine, dark brown. Loose, moist, poorly graded. (TOPSOIL)</p> <p>PEAT, spongy, black. Loose, moist. (SWAMP & LAKE DEPOSITS)</p> <p>SAND, fine to medium, organic, trace rootlets and plant fibres, dark brown. Loose, moist, poorly graded. (DUNE DEPOSITS)</p> <p>SAND, fine to medium, dark grey. Medium dense to dense, most, poorly graded. (ALLUVIAL DEPOSITS)</p>			<p>... 0-2, Backfill</p>
		<p>HA/DCP056 refusal in dense material at 1.7m</p>			

Borehole Record: HA059/ P08

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364500.40
 Northing: 732691.90
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 07/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: SC/TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m) Scala Penetrometer (Blows/100 mm)	Well Diagram
0.50 1 1.50		<p>SILT, organic, with trace rootlets and some sand, dark brown. Loose, moist. (TOPSOIL)</p> <hr/> <p>SAND, fine to medium, with minor silt, greyish brown. Medium dense, moist, poorly graded. (BEACH DEPOSITS)</p> <p>0.8 m - Becomes grey and wet.</p> <p>1.0 m - Becomes saturated.</p>			
<p>HA059/ P08 Hole collapse at 1.8m</p>					

Borehole Record: HA/DCP060

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364784.33
 Northing: 732793.78
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 06/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: SC/TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m) Scala Penetrometer (Blows/100 mm)	Well Diagram
0.50 1 1.50		<p>PEAT, amorphous, with trace rootlets and decomposed wood, brownish black. Loose, moist. (SWAMP & LAKE DEPOSITS)</p> <p>SAND, fine to medium, with minor silt, brownish grey. Loose to dense, moist, poorly graded. (DUNE DEPOSITS)</p> <p>0.6 m - Becomes grey and wet</p> <p>1.2 m - Becomes saturated.</p>			<p>... 0-1.6, Backfill</p>
		<p>HA/DCP060 Hole collapse at 1.6m</p>			

Borehole Record: HA061/ P06

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364836.36
 Northing: 732920.55
Elevation: 5.89(m)
Inclination: -90 deg

Date Drilled: 07/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: SC/TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m) Scala Penetrometer (Blows/100 mm)	Well Diagram
0.50 1		<p>SAND, fine, some silt, dark brown. Loose, moist, poorly graded. (TOPSOIL)</p> <p>PEAT, spongy, trace plant fibres, dark brown. Loose, moist. (SWAMP & LAKE DEPOSITS)</p> <p>SAND, fine to medium, with some silt to 0.8m and trace rootlets, medium dense to dense, wet to saturated (DUNE DEPOSITS)</p> <p>1.2 m - Becomes saturated.</p>			
<p>HA061/ P06 Hole collapse at 1.5m</p>					

Borehole Record: HA/DCP062

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364595.01
 Northing: 732836.52
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 13/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)	Well Diagram
0.50		SAND, fine, with trace rootlets, dark brown. Loose, moist, poorly graded. (TOPSOIL) SAND, fine to medium, greyish brown. Medium dense to dense, moist, poorly graded. (DUNE DEPOSITS)			<p>... 0-3.2, Backfill</p>
3		2.7m - Wet. 3.0m - Wet to saturated.			
HA/DCP062 Hole collapse at 3.2m					



Borehole Record: HA065

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364703.66
 Northing: 732990.19
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 02/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: RC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram							
				0	2	4	6	8	10	12	14	16	18	20	22	24		26						
0.50		PEAT, spongy, brown. Loose, dry. (SWAMP DEPOSITS) 0.2m - Moist, dark brown. 0.4m - Wet, black, some decomposed wood.																						
1.00		1.0m - Saturated.																						
1.50																								
2.00																								
2.50		SAND, fine to medium, grey, Dense, saturated, poorly graded. (DUNE DEPOSITS)																						
		HA065 Hole collapse at 2.5m																						



Borehole Record: HA/DCP070

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 363901.07
 Northing: 732795.33
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 06/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: RC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram									
				0	2	4	6	8	10	12	14	16	18	20	22	24		26								
0.50		Silty SAND, fine, trace rootlets, dark blackish brown. Loose, moist, poorly graded. (TOPSOIL)																								
1		SAND, fine to medium, some silt, orangish brown. Medium dense to dense, moist, poorly graded. (DUNE DEPOSITS)																								
1.50		1.1m - No silt, brown.																								
2																										
2.50																										
3																										
3.50																										
4																										
4.50																										

HA/DCP070 Target depth achieved at 5m



Borehole Record: HA072

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364306.97
 Northing: 732950.20
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 03/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: RC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram									
				0	2	4	6	8	10	12	14	16	18	20	22	24		26								
0.50		SAND, fine, trace rootlets and plant fibres, blackish brown. Loose, moist, poorly graded. (TOPSOIL) PEAT, spongy, some silt, minor plant fibres, greyish brown. Dense, wet. (SWAMP & LAKE DEPOSITS)	~0.50																							
1		SAND, fine to medium, some silt, trace plant fibres, dark greyish brown. Dense, wet, poorly graded. (BEACH DEPOSITS)																								
		HA072 Hole collapse at 2.5m																								

Borehole Record: HA/DCP073

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364241.25
 Northing: 732882.28
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 13/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: RC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m) Scala Penetrometer (Blows/100 mm)	Well Diagram																																
0.50 1 1.50 2		<p>SAND, trace rootlets and plant fibres, blackish brown. Loose, moist, poorly graded. (TOPSOIL)</p> <p>PEAT, spongy, minor plant fibres and fine sand, blackish brown. Soft, moist. (SWAMP & LAKE DEPOSITS)</p> <p>SAND, fine to medium, minor plant fibres and silt, dark brownish grey. Medium dense to dense, wet to saturated, poorly graded. (BEACH DEPOSITS)</p>		<table border="1"> <caption>Scala Penetrometer Data</caption> <thead> <tr> <th>Depth (m)</th> <th>Blows/100 mm</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>0</td></tr> <tr><td>0.1</td><td>1</td></tr> <tr><td>0.2</td><td>2</td></tr> <tr><td>0.3</td><td>3</td></tr> <tr><td>0.4</td><td>4</td></tr> <tr><td>0.5</td><td>5</td></tr> <tr><td>0.6</td><td>6</td></tr> <tr><td>0.8</td><td>8</td></tr> <tr><td>1.0</td><td>10</td></tr> <tr><td>1.2</td><td>12</td></tr> <tr><td>1.4</td><td>14</td></tr> <tr><td>1.6</td><td>16</td></tr> <tr><td>1.8</td><td>18</td></tr> <tr><td>2.0</td><td>20</td></tr> <tr><td>2.2</td><td>22</td></tr> </tbody> </table>	Depth (m)	Blows/100 mm	0.0	0	0.1	1	0.2	2	0.3	3	0.4	4	0.5	5	0.6	6	0.8	8	1.0	10	1.2	12	1.4	14	1.6	16	1.8	18	2.0	20	2.2	22	<p>... 0-2.2, Backfill</p>
Depth (m)	Blows/100 mm																																				
0.0	0																																				
0.1	1																																				
0.2	2																																				
0.3	3																																				
0.4	4																																				
0.5	5																																				
0.6	6																																				
0.8	8																																				
1.0	10																																				
1.2	12																																				
1.4	14																																				
1.6	16																																				
1.8	18																																				
2.0	20																																				
2.2	22																																				
<p>HA/DCP073 Hole collapse at 2.2m</p>																																					



Borehole Record: HA074

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364614.75
 Northing: 733183.75
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 02/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: SC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram							
				0	2	4	6	8	10	12	14	16	18	20	22	24		26						
0.00 - 0.50		Silty SAND, fine, some rootlets, brown. Medium dense, dry to moist, poorly graded. (TOPSOIL)																						
0.50 - 1.00		PEAT, spongy, roots, rootlets, plant fibres, tree remains, some sand, fine to medium, blackish brown. Firm, wet. (SWAMP DEPOSITS)																						
1.00 - 1.50																								
1.50 - 2.00		SAND, fine to medium, dark brownish grey. Dense, wet, poorly graded. (DUNE DEPOSITS)																						
2.00 - 2.10		HA074 Hole collapse at 2m																						

Borehole Record: HA/DCP075/ P10

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364267.33
 Northing: 733043.98
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 15/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: RC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m) Scala Penetrometer (Blows/100 mm)	Well Diagram
0.50 1 1.50 2 2.50		<p>PEAT, fibrous, some decomposed wood, black. Loose, wet. (SWAMP & LAKE DEPOSITS)</p> <p>0.5 m - Perched water in PEAT</p> <p>SAND, fine to medium, minor silt, grey. Medium dense, saturated, poorly graded. (DUNE DEPOSITS)</p>			<p>... 0-1.8, Bentonite</p> <p>... 0-2, 40 mm PVC Solid</p> <p>... 2-2.5, 40 mm PVC Slotted</p> <p>... 1.8-2.8, Backfill</p>
<p>HA/DCP075/ P10 Hole collapse at 2.8m</p>					

Borehole Record: HA/DCP076

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364208.41
 Northing: 732963.91
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 14/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: RC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m) Scala Penetrometer (Blows/100 mm)	Well Diagram																																																						
0.50 1 1.50		<p>SAND, fine, some silt, trace rootlets, brown. Loose, moist, poorly graded. (TOPSOIL)</p> <hr/> <p>SAND, fine to medium, greyish brown. Medium dense to dense, moist, poorly graded. (DUNE DEPOSITS)</p> <p>0.8 m - Becomes grey and wet</p> <p>1.3m - Saturated.</p>		<table border="1"> <caption>Scala Penetrometer Data</caption> <thead> <tr> <th>Depth (m)</th> <th>Blows/100 mm</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>0</td></tr> <tr><td>0.1</td><td>1</td></tr> <tr><td>0.2</td><td>2</td></tr> <tr><td>0.3</td><td>3</td></tr> <tr><td>0.4</td><td>4</td></tr> <tr><td>0.5</td><td>5</td></tr> <tr><td>0.6</td><td>6</td></tr> <tr><td>0.7</td><td>7</td></tr> <tr><td>0.8</td><td>8</td></tr> <tr><td>0.9</td><td>9</td></tr> <tr><td>1.0</td><td>10</td></tr> <tr><td>1.1</td><td>11</td></tr> <tr><td>1.2</td><td>12</td></tr> <tr><td>1.3</td><td>13</td></tr> <tr><td>1.4</td><td>14</td></tr> <tr><td>1.5</td><td>15</td></tr> <tr><td>1.6</td><td>16</td></tr> <tr><td>1.7</td><td>17</td></tr> <tr><td>1.8</td><td>18</td></tr> <tr><td>1.9</td><td>19</td></tr> <tr><td>2.0</td><td>20</td></tr> <tr><td>2.1</td><td>21</td></tr> <tr><td>2.2</td><td>22</td></tr> <tr><td>2.3</td><td>23</td></tr> <tr><td>2.4</td><td>24</td></tr> <tr><td>2.5</td><td>25</td></tr> </tbody> </table>	Depth (m)	Blows/100 mm	0.0	0	0.1	1	0.2	2	0.3	3	0.4	4	0.5	5	0.6	6	0.7	7	0.8	8	0.9	9	1.0	10	1.1	11	1.2	12	1.3	13	1.4	14	1.5	15	1.6	16	1.7	17	1.8	18	1.9	19	2.0	20	2.1	21	2.2	22	2.3	23	2.4	24	2.5	25	<p>... 0-1.7, Backfill</p>
Depth (m)	Blows/100 mm																																																										
0.0	0																																																										
0.1	1																																																										
0.2	2																																																										
0.3	3																																																										
0.4	4																																																										
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2.4	24																																																										
2.5	25																																																										
		<p>HA/DCP076 Hole collapse at 1.7m</p>																																																									



Borehole Record: HA/DCP077

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364000.94
 Northing: 732942.21
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 07/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram								
				0	2	4	6	8	10	12	14	16	18	20	22	24		26							
0.50		SAND, fine to medium, some silt, dark brown. Loose, moist, poorly graded. (TOPSOIL) SAND, fine to medium, minor silt, light brownish grey. Medium dense to dense, moist, poorly graded. (DUNE DEPOSITS)																							
1																									
1.50																									
2		2.0m - Becomes light grey.																							... 0-4, Backfill
2.50																									
3																									
3.50																									
		HA/DCP077 refusal in dense material at 4m																							

Borehole Record: HA078

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 363917.09
 Northing: 732898.66
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 06/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: RC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram									
				0	2	4	6	8	10	12	14	16	18	20	22	24		26								
0.00		Silty SAND, fine, trace rootlets, dark blackish brown. Loose, moist, poorly graded. (TOPSOIL)																								
0.30		0.3m - No silt, dry.																								
0.50		SAND, fine, minor silt, yellowish brown. Medium dense, dry. (DUNE DEPOSITS)																								
1.00		SAND, fine to medium, brown. Medium dense, moist, poorly graded. (DUNE DEPOSITS)																								
1.50																										
2.00																										
2.50																										... 0-5, Backfill
3.00																										
3.50																										
4.00																										
4.50																										

HA078 Target depth achieved at 5m

Borehole Record: HA/DCP079/ P12

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364662.75
 Northing: 733344.70
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 03/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: TP/CG

General comments: No Groundwater Encountered.

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)	Well Diagram
0.50 1 1.50 2 2.50 3 3.50 4 4.50		<p>SAND, fine to medium, some silt, trace rootlets, dark brown. Loose, moist, poorly graded. (TOPSOIL)</p> <p>SAND, fine to medium, minor silt, grey. Medium dense, moist, poorly graded. (DUNE DEPOSITS)</p>			
<p>HA/DCP079/ P12 Target depth achieved at 4.6m</p>					



Borehole Record: HA/DCP080

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364479.38
 Northing: 733189.46
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 02/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: RC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m) Scala Penetrometer (Blows/100 mm)	Well Diagram
0.50 1 1.50		<p>SAND, fine, some silt, trace rootlets, dark brown. Loose, moist, poorly graded. (TOPSOIL)</p> <p>PEAT, amorphous, black. Loose, moist. (SWAMP DEPOSITS)</p> <p>SAND, fine to medium, some silt, trace organics, brownish grey. Medium dense to dense, wet, poorly graded. (DUNE DEPOSITS)</p> <p>1.2m - Saturated.</p>			<p>... 0-1.7, Backfill</p>
<p>HA/DCP080 Hole collapse at 1.7m</p>					



Borehole Record: HA081

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364359.82
 Northing: 733184.11
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 02/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: RC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram							
				0	2	4	6	8	10	12	14	16	18	20	22	24		26						
0.00		SAND, fine, some silt, trace rootlets, dark brown. Loose, moist, poorly graded. (TOPSOIL)																						
0.50		SAND, fine to medium, brown. Medium dense, moist, poorly graded. (DUNE DEPOSITS)																						
1.00		PEAT, fibrous, some decomposed wood and roots, dark brown. Loose, moist. (SWAMP DEPOSITS)																						
1.30		1.3m - Moist to wet.																						
2.50		SAND, fine to medium, grey. Dense, wet, poorly graded. (DUNE DEPOSITS)																						
2.90		2.9m - Saturated.																						
		HA081 Hole collapse at 3m																						



Borehole Record: HA/DCP082

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364133.18
 Northing: 733117.93
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 06/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram							
				0	2	4	6	8	10	12	14	16	18	20	22	24		26						
0.50		SAND, fine, some silt, trace rootlets, dark brown. Medium dense, moist, poorly graded. (TOPSOIL) 1.0m - Becomes fine to medium.																						
1		SAND, fine to medium, minor silt, brownish grey. Medium dense, moist, poorly graded. (DUNE DEPOSITS) 1.2m - Becomes grey.																						
1.50																								
2		2.0m - Becomes wet. 2.1m - Becomes saturated.																						
		HA/DCP082 Hole collapse at 2.2m																						

Borehole Record: HA083

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364059.24
 Northing: 733010.19
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 07/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram								
				0	2	4	6	8	10	12	14	16	18	20	22	24		26							
0.00		SAND, some silt, trace rootlets, dark brown. Loose, moist, poorly graded. (TOPSOIL)																							
0.50		SAND, fine to medium, minor silt, brown. Medium dense to dense, moist, poorly graded. (DUNE DEPOSITS)																							
0.60		0.6m - Becomes dark orangish brown.																							
0.80		0.8m - Becomes light brown.																							
1.30		1.3m - Becomes grey.																							
2.50																									... 0-5, Backfill
4.50		4.5m - Becomes brownish grey.																							

HA083 Target depth achieved at 5m



Borehole Record: HA084

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 363917.48
 Northing: 733009.83
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 08/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: RC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram								
				0	2	4	6	8	10	12	14	16	18	20	22	24		26							
0.00 - 0.50		Silty SAND, fine, trace rootlets, dark blackish brown. Loose, moist, poorly graded. (TOPSOIL)																							
0.50 - 2.00		SAND, fine, minor silt, light black, mottled light brown. Dense, dry, poorly graded. (NON-ENGINEERED FILL)																							
2.00 - 2.40		SAND, fine to medium, yellowish brown. Medium dense to dense, moist, poorly graded. (DUNE DEPOSITS)																							
2.40 - 2.50		2.4m - Becomes brown.																							
2.50 - 4.50																									

HA084 Target depth achieved at 5m

... 0-5, Backfill



Borehole Record: HA/DCP085

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 363801.81
 Northing: 732968.17
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 06/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: RC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram								
				0	2	4	6	8	10	12	14	16	18	20	22	24		26							
0.00		SAND, fine, trace rootlets, black. Loose, moist, poorly graded. (TOPSOIL)																							
0.50		SAND, fine to medium, brown. Medium dense to dense, moist, poorly graded. (DUNE DEPOSITS)																							
1.00																									
1.50																									
2.00																									
2.50																									... 0-5, Backfill
3.00																									
3.50																									
4.00																									
4.50																									

HA/DCP085 Target depth achieved at 5m



Borehole Record: HA086

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 363763.13
 Northing: 732892.57
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 06/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: RC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram									
				0	2	4	6	8	10	12	14	16	18	20	22	24		26								
0.00 - 0.10		Silty SAND, fine, trace rootlets, dark blackish brown. Loose, moist, poorly graded. (TOPSOIL)																								
0.10 - 0.50		SAND, fine to medium, brown. Medium dense to dense, moist, poorly graded. (DUNE DEPOSITS)																								
0.50 - 2.50																										
2.50 - 5.00																										... 0-5, Backfill

HA086 Target depth achieved at 5m

Borehole Record: HA087/ P13

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364449.49
 Northing: 733361.50
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 02/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: SC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)		Well Diagram
				Depth (m)		
0.50		SAND, fine, some silt, some rootlets, dark brown. Loose, moist, poorly graded. (TOPSOIL) PEAT, spongy, some plant fibres, some sand, fine, blackish brown to black. Loose, moist to wet. (SWAMP DEPOSITS)		0 2 4 6 8 10 12 14 16 18 20 22 24 26		<p>... 0-1.2, Bentonite 0-2.05, 40 mm PVC Solid 1.2-3, Backfill 2.05-2.55, 40 mm PVC Slotted</p>
2.00		SAND, fine to medium, minor silt, dark brownish grey. Dense, wet, poorly graded. (DUNE DEPOSITS)				
HA087/ P13 Hole collapse at 3m						

Borehole Record: HA089

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364194.61
 Northing: 733210.23
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 07/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram							
				0	2	4	6	8	10	12	14	16	18	20	22	24		26						
0.50		SAND, fine to medium, some silt, trace rootlets, dark brown. Loose, moist, poorly graded. (TOPSOIL) SAND, fine to medium, minor silt, light brown. Medium dense to dense, moist, poorly graded. (DUNE DEPOSITS)																						
1.50		1.5m - Becomes brownish grey.																						
2.00																								... 0-4, Backfill
3.00		3.0m - Becomes grey.																						
3.50																								
		HA089 refusal in dense material at 4m																						

Borehole Record: HA090

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364072.42
 Northing: 733181.35
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 07/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram								
				0	2	4	6	8	10	12	14	16	18	20	22	24		26							
0.50		SAND, fine to medium, some silt, trace rootlets, dark brown. Loose, moist, poorly graded. (TOPSOIL) SAND, fine to medium, minor silt, orangish brown. Medium dense to dense, moist, poorly graded. (DUNE DEPOSITS)																							
1		1.0m - Becomes grey.																							
1.50																									
2																									
2.50																									
3																									
3.50																									
		HA090 refusal in dense material at 4m																							

Borehole Record: HA/DCP091/ P14

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364013.90
 Northing: 733127.35
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 06/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Well Diagram
0.50 1 1.50 2 2.50 3 3.50		<p>SAND, fine to medium, some silt, dark brown. Medium dense, moist, poorly graded. (TOPSOIL)</p> <p>SAND, fine to medium, minor silt, light and dark brown. Medium dense to dense, moist, poorly graded. (DUNE DEPOSITS)</p> <p>0.8m - Becomes light grey. 0.9m - Becomes orange mottled brown.</p> <p>1.5m - Becomes light grey.</p> <p>2.9m - Becomes dark grey.</p>		0.50 1 1.50 2 2.50 3 3.50		
<p>HA/DCP091/ P14 Target depth achieved at 3.6m</p>						

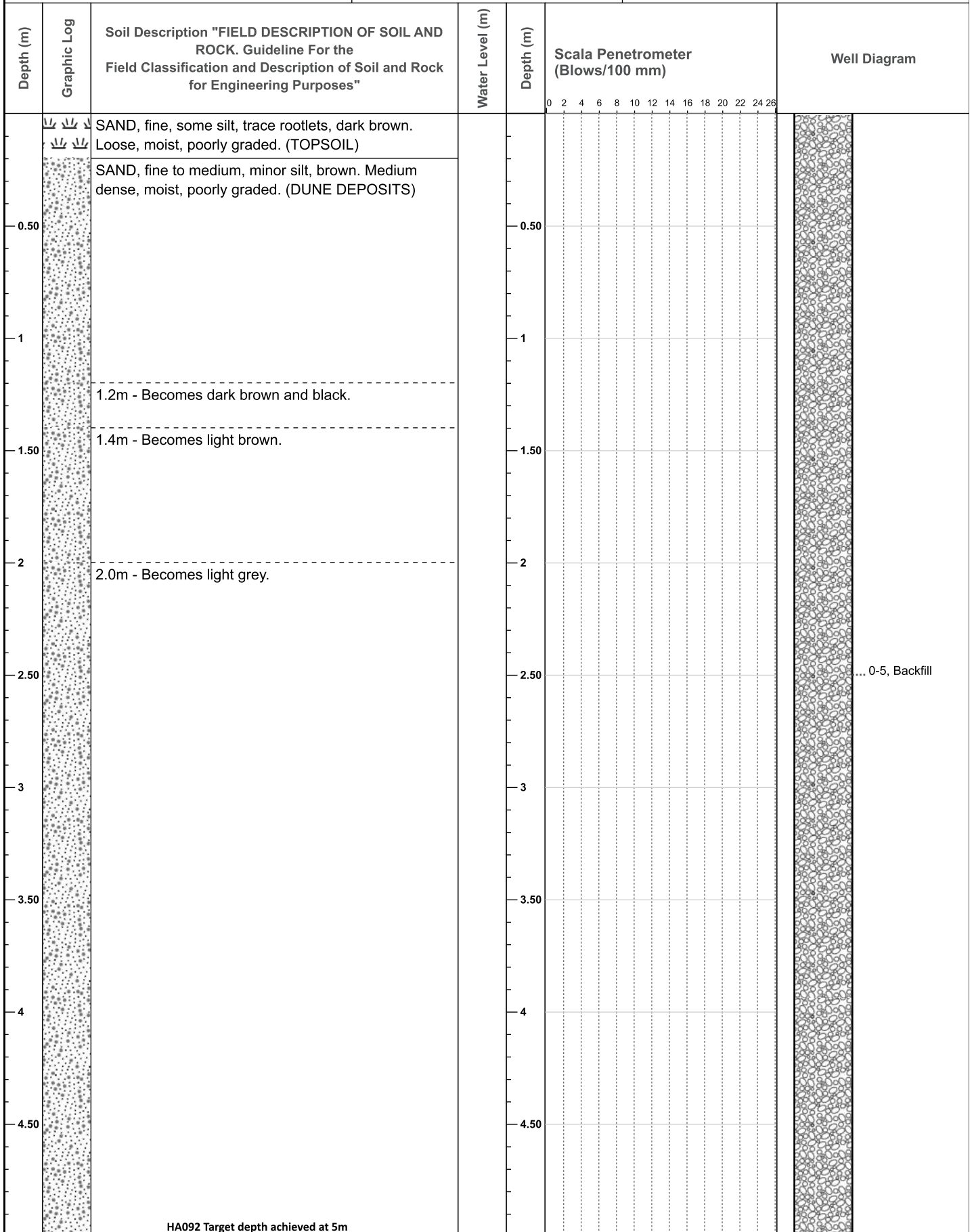


Borehole Record: HA092

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 363753.44
 Northing: 733050.99
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 07/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: TP/CG



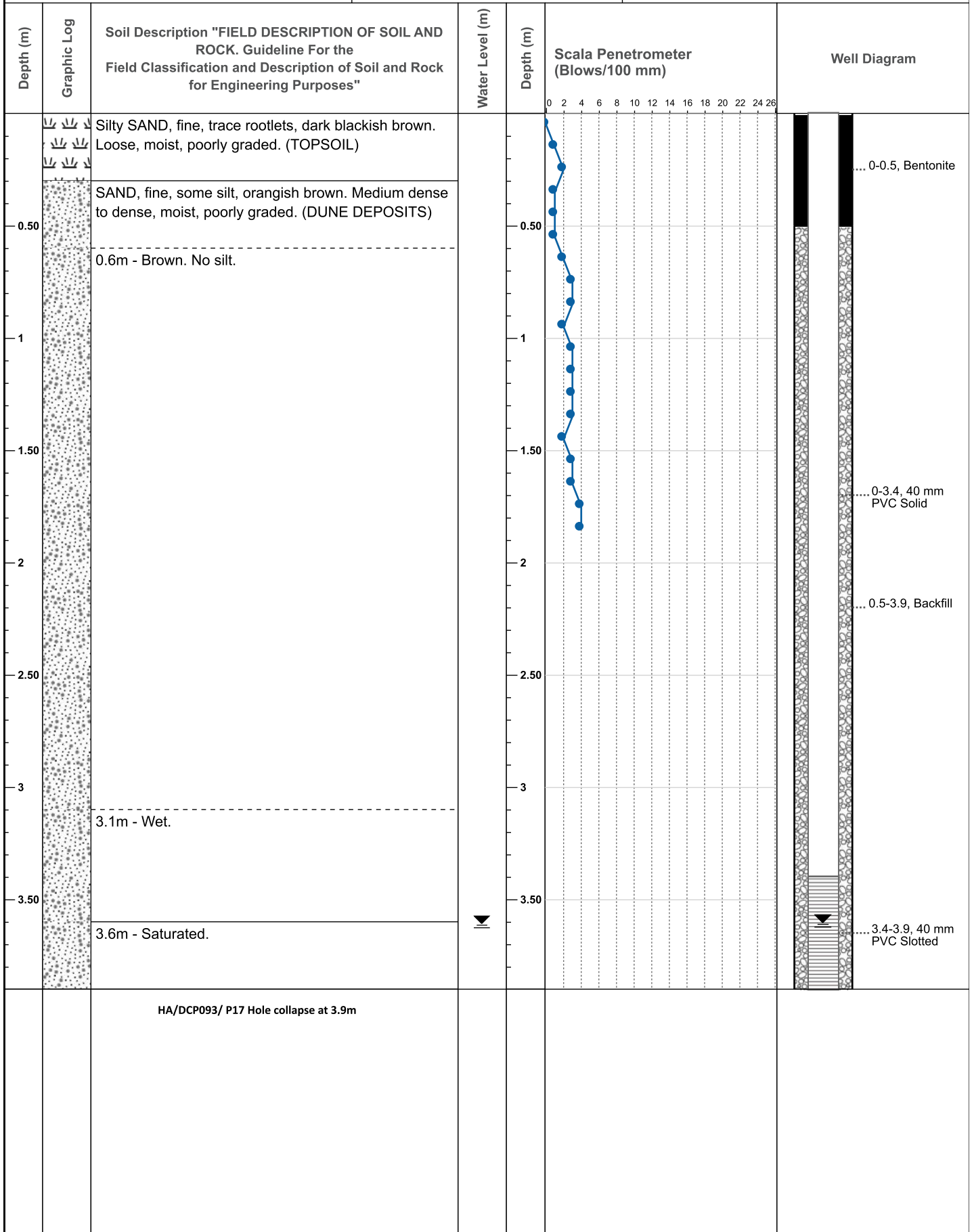
HA092 Target depth achieved at 5m

Borehole Record: HA/DCP093/ P17

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 363642.88
 Northing: 732924.30
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 06/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: RC/CG





Borehole Record: HA094

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364519.17
 Northing: 733469.89
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 05/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram							
				0	2	4	6	8	10	12	14	16	18	20	22	24		26						
0.00 - 0.10		SAND, fine to medium, minor silt, some rootlets, light brownish grey. Loose, moist, poorly graded. (TOPSOIL)																						
0.10 - 0.50		SAND, fine to medium, minor silt, light brownish grey. Medium dense, moist, poorly graded. (DUNE DEPOSITS)																						
0.50 - 1.00		PEAT, spongy, some plant fibres and roots, trace sand, fine to medium, blackish brown. Soft, moist. (SWAMP DEPOSITS)																						
1.00 - 1.50																								
1.50 - 2.00																								
2.00 - 2.20																								
2.20 - 2.50		2.2m - Becomes wet.																						
2.50 - 3.00																								
3.00 - 3.50																								
3.50 - 3.90		SAND, fine to medium, minor silt, bluish grey. Dense, wet to saturated, poorly graded. (DUNE DEPOSITS)																						
		HA094 Hole collapse at 3.9m																						

Borehole Record: HA/DCP097

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364206.62
 Northing: 733339.33
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 08/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)		Well Diagram
				Depth (m)		
0.50		SAND, fine to medium, some silt, dark brown and black. Loose, moist, poorly graded. (TOPSOIL)		0	2	
1.00		SAND, fine to medium, minor silt, brown. Medium dense to dense, moist, poorly graded. (DUNE DEPOSITS)		2	4	
1.60		1.6m - Becomes brownish grey.		4	6	
2.40		2.4m - Becomes yellowish orange.		6	8	
2.90		2.9m - Becomes brownish grey.		8	10	
3.50				10	12	
3.60		HA/DCP097 refusal in dense material at 3.6m		12	14	



Borehole Record: HA/DCP098

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364052.85
 Northing: 733316.57
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 08/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)		Well Diagram
				Depth (m)		
0.50		SAND, fine, some silt, trace rootlets, dark brown. Loose, moist, poorly graded. (TOPSOIL)		0 2 4 6 8 10 12 14 16 18 20 22 24 26		
1		SAND, fine to medium, minor silt, brownish grey. Medium dense to dense, moist., poorly graded. (DUNE DEPOSITS)				
1.50		0.4m - Becomes black.				
2		0.7m - Becomes brownish grey.				... 0-3.2, Backfill
2.50						
3						
HA/DCP098 Target depth achieved at 3.2m						



Borehole Record: HA099

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 363933.75
 Northing: 733252.89
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 07/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: RC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram								
				0	2	4	6	8	10	12	14	16	18	20	22	24		26							
0.00		SAND, fine to medium, some silt, trace rootlets. Loose, moist, poorly graded. (TOPSOIL)																							
0.00 - 0.50		SAND, fine to medium, brown. Medium dense, moist, poorly graded. (DUNE DEPOSITS)																							
0.50 - 1.00		SAND, fine, organics, black. Medium dense, moist, poorly graded. (DUNE DEPOSITS)																							
1.00 - 4.20		SAND, fine to medium, brown. Medium dense to dense, moist, poorly graded. (DUNE DEPOSITS)																							
4.20		HA099 refusal in dense material at 4.2m																						 0-4.2, Backfill

Borehole Record: HA/DCP100

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 363824.67
 Northing: 733174.19
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 06/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)		Well Diagram
				Depth (m)		
0.50		SAND, fine to medium, some silt, trace rootlets, dark brown. Loose, moist, poorly graded. (TOPSOIL) SAND, fine to medium, minor silt, light brown. Loose, moist, poorly graded. (DUNE DEPOSITS)		0	2	
1				4		
1.50		1.3m - Becomes light brownish grey. Sand is fluffy.		6		... 0-3.2, Backfill
2		2.0m - Medium dense. Sand is non fluffy.		8		
2.50				10		
3				12		
HA/DCP100 Target depth achieved at 3.2m						



Borehole Record: HA101

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 363693.19
 Northing: 733143.50
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 06/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram								
				0	2	4	6	8	10	12	14	16	18	20	22	24		26							
0.00		SAND, fine to medium, some silt, some rootlets, dark brown and black. Medium dense, moist, poorly graded. (TOPSOIL)																							
0.50		SAND, fine to medium, minor silt, brown. Medium dense to dense, moist, poorly graded. (DUNE DEPOSITS)																							
1.00		1.0m - Become light brownish grey.																							
1.50																									
2.00																									
2.50																									
3.00																									
		HA101 Target depth achieved at 3.2m																							



Borehole Record: HA102

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 363576.02
 Northing: 733023.36
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 06/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: RC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram								
				0	2	4	6	8	10	12	14	16	18	20	22	24		26							
0.00		SAND, fine to medium, trace rootlets, dark blackish brown. Loose to medium dense, moist, poorly graded. (TOPSOIL)																							
0.20		0.2-0.3m - Brown.																							
0.50		SAND, fine to medium, brown. Medium dense to dense, moist, poorly graded. (DUNE DEPOSITS)																							
1.00																									
1.50																									
2.00																									
2.50																									... 0-5, Backfill
3.00																									
3.50																									
4.00																									
4.50																									

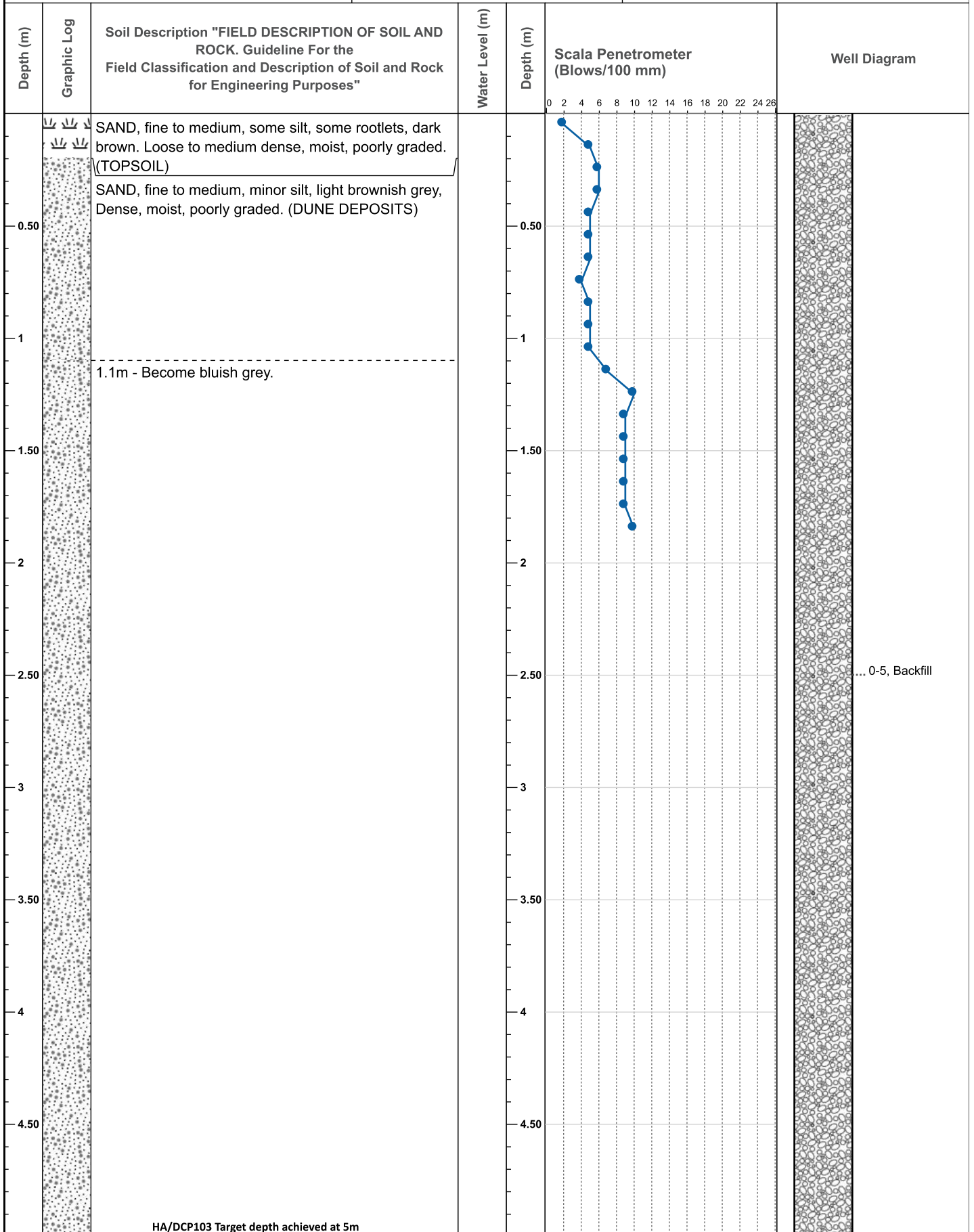
HA102 Target depth achieved at 5m

Borehole Record: HA/DCP103

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364467.73
 Northing: 733547.54
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 05/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: SC/TP/CG



HA/DCP103 Target depth achieved at 5m



Borehole Record: HA/DCP104

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364211.76
 Northing: 733456.14
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 08/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: SC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m) Scala Penetrometer (Blows/100 mm)	Well Diagram
0.50 1 1.50 2 2.50 3		<p>SAND, fine, some silt, some rootlets, dark brown and black. Loose, moist, poorly graded. (TOPSOIL)</p> <p>SAND, fine to medium, minor silt, greyish brown. Medium dense, moist, poorly graded. (DUNE DEPOSITS)</p>			
		<p>HA/DCP104 Target depth achieved at 3.2m</p>			

Borehole Record: HA105

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364066.26
 Northing: 733410.73
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 09/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram									
				0	2	4	6	8	10	12	14	16	18	20	22	24		26								
0.00		SAND, fine to medium, some silt, dark brown and black. Medium dense, moist, poorly graded. (TOPSOIL) SAND, fine to medium, some silt, light brown. Medium dense, moist, poorly graded. (DUNE DEPOSITS)																								
0.50																										
1.00		1.0m - Becomes light brownish grey.																								
1.50																										
2.00																										... 0-4, Backfill
2.50																										
3.00																										
3.50																										
		HA105 refusal in dense material at 4m																								

Borehole Record: HA106

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 363711.90
 Northing: 733220.84
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 07/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: TP/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram								
				0	2	4	6	8	10	12	14	16	18	20	22	24		26							
0.00		SAND, fine to medium, some silt, rootlets, dark brown. Loose, moist, poorly graded. (TOPSOIL)																							
0.50		SAND, fine to medium, minor silt, light brown. Medium dense to dense, moist, poorly graded. (DUNE DEPOSITS)																							
1.00		1.0m - Becomes brownish light grey.																							
1.50																									
2.00																									
2.50																									
3.00																									
		HA106 Target depth achieved at 3.2m																							

Borehole Record: HA/DCP107/ P15

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 363524.26
 Northing: 733122.39
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 19/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: TP/CG


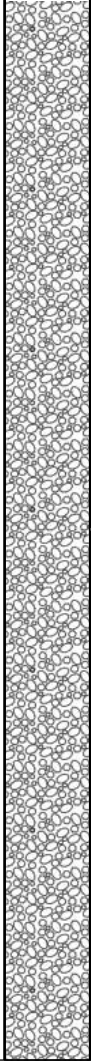
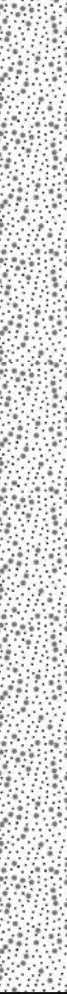
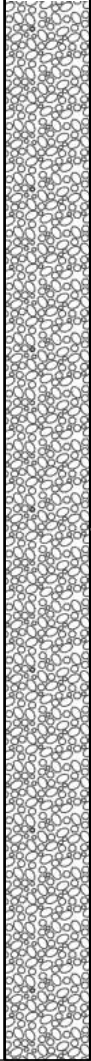
Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)	Well Diagram
0.50 1 1.50		<p>SAND, fine to medium, some silt, some rootlets, dark brown. Loose, moist, poorly graded. (TOPSOIL)</p> <p>SAND, fine to medium, minor silt, light brown and some grey. Loose to medium dense, moist, poorly graded. (DUNE DEPOSITS)</p> <p>0.8m - Becomes grey.</p> <p>1.0m - Wet.</p> <p>1.1m - Saturated.</p>			
<p>HA/DCP107/ P15 Hole collapse at 1.6m</p>					

Borehole Record: HA109

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364222.29
 Northing: 733561.32
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 08/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: SC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram								
				0	2	4	6	8	10	12	14	16	18	20	22	24		26							
0.00		Organic SAND, fine, minor rootlets, blackish brown. Loose, moist, poorly graded. (TOPSOIL)																							
0.50		SAND, fine to medium, some silt, brown. Medium dense, moist, poorly graded. (DUNE DEPOSITS)																							
1.50		SAND, fine to medium, minor silt, minor shell fragments, greyish brown. Medium dense packed, moist, poorly graded. (DUNE DEPOSITS)																							... 0-3.2, Backfill
3.00																									
		HA109 Target depth achieved at 3.2m																							



Borehole Record: HA/DCP110

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 364047.36
 Northing: 733523.48
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 08/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: SC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m) Scala Penetrometer (Blows/100 mm)	Well Diagram
0.50 1 1.50 2 2.50 3		<p>SAND, fine to medium, minor silt, greyish brown. Loose, moist, poorly graded. (DUNE DEPOSITS)</p> <p>0.5m - Medium dense.</p>			<p>... 0-3.2, Backfill</p>
<p style="text-align: center;">HA/DCP110 Target depth achieved at 3.2m</p>					

Borehole Record: HA111

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 363891.20
 Northing: 733418.26
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 08/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: RC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Scala Penetrometer (Blows/100 mm)													Well Diagram									
				0	2	4	6	8	10	12	14	16	18	20	22	24		26								
0.00		Silty SAND, fine, with trace rootlets, dark blackish brown. Loose, moist, poorly graded. (TOPSOIL)																								
0.50		SAND, fine to medium, minor organics, brown mottled dark brown. Medium dense, moist, poorly graded. (DUNE DEPOSITS)																								
1.00																										
1.50		Organic SAND, fine to medium, dark blackish brown. Medium dense, moist, poorly graded. (DUNE DEPOSITS)																								
2.00		SAND, fine to medium, brown. Medium dense to dense, moist, poorly graded. (DUNE DEPOSITS)																								
2.50																										
3.00		2.8m - Mottled orange.																								
3.50		3.3m - Greyish brown, wet.																								
		3.6m - Saturated.																								
		HA111 Hole collapse at 3.8m																								

Borehole Record: HA/DCP112/ P16

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Easting: 363742.27
 Northing: 733392.13
Elevation: 4.19(m)
Inclination: -90 deg

Date Drilled: 08/05/2025
Drill Rig: Hand Auger Borehole
Drill Supplier: CGW
Logged/Checked: RC/CG

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m) Scala Penetrometer (Blows/100 mm)	Well Diagram
0.50 1 1.50 2 2.50		<p>Silty SAND, fine, trace rootlets, dark blackish brown. Loose, moist, poorly graded. (TOPSOIL) 0.1m - Some silt.</p> <p>SAND, fine to medium, brown. Medium dense to dense, moist, poorly graded. (DUNE DEPOSITS)</p> <p>2.1m - Wet. 2.5m - Saturated.</p>			
<p>HA/DCP112/ P16 Hole collapse at 2.9m</p>					



Borehole Record: HA/DCP113

Project: Waikanae North Subdivision
 Location: 5348+CH Waikanae, Wellington, New Zealand
 Loc Comment:
 Job No: 21512

Position: Lat: -40.83845
 Long: 175.05583
 Elevation: 6.20(m)
 Inclination:

Date Drilled: 08/12/2025
 Drill Rig: Hand Auger and DCP
 Drill Supplier: CGW
 Logged/Checked: SC/RS

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m)	Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0.0 - 0.2		Silty fine SAND, some organics and rootlets; dark brown. Loose; moist. (TOPSOIL)		0.0 - 0.2	~1		
0.2 - 0.9		Silty fine SAND, trace rootlets; greyish brown. Dry; very loose; poorly graded. (AEOLIAN DEPOSITS)		0.2 - 0.9	~2-4		
0.9 - 2.0		Fine to medium SAND; brownish grey. Medium dense; moist; poorly graded. (DUNE DEPOSITS)		0.9 - 2.0	~4-6		
2.0 - 2.1		Silty fine ORGANIC SAND; blackish brown. Medium dense; moist. (WETLAND DEPOSITS)		2.0 - 2.1	~5		
2.1 - 3.9		Fine to medium SAND; brownish grey and grey mottled. Medium dense to dense; moist; poorly graded. (DUNE DEPOSITS)		2.1 - 3.9	~6-12		
		HA/DCP113 Hole collapse at 3.9 m		3.9 - 4.0	~15		



Borehole Record: HA/DCP114

Project: Waikanae North Subdivision
Location: 5348+CH Waikanae, Wellington, New Zealand
Loc Comment:
Job No: 21512

Position: Lat: -40.83885
 Long: 175.05603
Elevation: 10.46(m)
Inclination:

Date Drilled: 08/12/2025
Drill Rig: Hand Auger and DCP
Drill Supplier: CGW
Logged/Checked: SC/RS

Depth (m)	Graphic Log	Soil Description "FIELD DESCRIPTION OF SOIL AND ROCK. Guideline For the Field Classification and Description of Soil and Rock for Engineering Purposes"	Water Level (m)	Depth (m) Scala Penetrometer (Blows/100 mm)	Shear Vane Strength [Peak - Remoulded] (kPa)	Well Diagram
0 0.5 1.0 1.5 2.0 2.5 3.0 3.5		<p>Silty fine SAND, some organics and rootlets; black. Loose; moist. (TOPSOIL)</p> <p>Silty fine SAND, minor organics; dark greyish brown. Loose; moist; poorly graded. (AEOLIAN DEPOSITS)</p> <p>Fine to medium SAND; brownish grey. Loose; becoming medium dense; moist; poorly graded. (DUNE DEPOSITS)</p> <p>----- Becomes medium dense to dense.</p>				
		HA/DCP114 Hole collapse at 4 m				