CLIENT: Example Pty Ltd

PROJECT: Facility
LOCATION: Somewhere

SURFACE LEVEL: 32.94 m AHD **BORE No:** BH 1

 EASTING:
 321040
 PROJECT No:
 00000001

 NORTHING:
 5813623
 DATE:
 28/9/2020

 DIP/AZIMUTH:
 90°/- SHEET 1 OF 3

	_		Description	jc _		Sam		& In Situ Testing	<u></u>	Well
R	Dep (m		of	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	Construction
			Strata	0	F	۵	Sar	Comments		Details
[]		0.2	Concrete.	4.4.						
			FILL / GRAVEL (GP): fine to medium angular gravel (crushed rock), grey, wet.							
E			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\bowtie						
32				\bowtie						
	- 1	1.1	at 1 m: geofabric.	\times						
[]			FILL / SANDY CLAY (CI): fine to coarse sand, brown, grey, trace basalt gravel, w ≼PL, strong hydrocarbon							-
			smell.							
31										
1	•					2.0		3,5,5		2
	. 2	2.25	SILTY SAND (SP): fine to medium sand, pale grey, dry,	1111	S	2.45		N = 10		
		2.6	loose. (Brighton Group)			2.43				-
٥	-		SILTY CLAY (CH): light brown, trace siltstone fragments, W > PL, hard. (Residual)	///						
30	- 3		3 m: hard.	1/1/						-3
				1//						
[3.5 m: mottled pale grey, XW siltstone.	1//		3.5		21,25,29		
+	·			1//	S			N = 54		
29	-4 ³	3.95 4.0	Core Loss.	1/1/		3.95				-4
			SILTY CLAY (CH): pale brown, mottled pale grey, w			4.3		pp = 270-480 4.3-4.5 subsample		
E			PL, very stiff to hárd, with bands of XW-HW siltstone.		С			'		
	•			1/1/						-
28	- 5 -				 	5.0				-5
					U ₆₃	5.35		pp = 400-400		
+				1//						
[
27	-6			1/1/	С	6.0		pp = 200-580		-6
	-				1					
	. 6	6.45	SILTSTONE (HW): very low to low strength, fine grained,	 		6.5				
E			pale brown, grey, slightly fractured, friable, wet.		İ	6.85		6.85- 7 subsample		-
26	7				İ	0.03		0.00- / Subsample		-7
[-				С			6.5 - 6.6 Subsample		
			7.5 m. h							
			7.5 m: becoming pale brown, laminated, with brown iron rich layers, steeply bedded.							
25	- 8					8.0				-8
	-			<u> </u>						
	-				С					
24	- - - 9]					-9
					l					
	-			[9.5				
[-	9.6	(HW-MW): low strength.	 =:=	С	9.0		8 05 - 0 subsemble		
	. ,	10.0	,					8.95 - 9 subsample		

RIG: GEO Comacchio DRILLER: Rock Well Drilling LOGGED: MC CASING: HQ to 4.2 m

TYPE OF BORING: Concrete coring to 0.2 m; Hand auger to 0.5 m: Solid flight auger to 3.95 m; NMLC coring to end.

WATER OBSERVATIONS: No free groundwater observed.

	SAMPLING & IN SITU TESTING LEGEND											
Α	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)							
В	Bulk sample	Р	Piston sample	PL(A)	Point load axial test Is(50) (MPa)							
BLK	Block sample	U,	Tube sample (x mm dia.)	PL(D	Point load diametral test ls(50) (MPa)							
C	Core drilling	WÎ	Water sample	pp `	Pocket penetrometer (kPa)							
D	Disturbed sample	⊳	Water seep	S	Standard penetration test							
1 =	Environmental cample		Water level	1/	Shoor yong (kDa)							



CLIENT: Example Pty Ltd

PROJECT: Facility
LOCATION: Somewhere

SURFACE LEVEL: 32.94 m AHD **BORE No:** BH 1

EASTING: 321040 **PROJECT No:** 0000001 **NORTHING:** 5813623 **DATE:** 28/9/2020 **SHEET** 2 OF 3

		Description	ပ္		Sam	ıpling &	& In Situ Testing		_ Well		
R	Depth	of	Graphic Log	ø)				Water	Construction		
"	(m)	Strata	Gr	Type	Depth	Sample	Results & Comments	>	Details		
H		SILTSTONE (HW-MW): low strength.	_ · -			Ŋ			L		
		SILTOTONE (HVV-IVIVV). IOW SHETIGHT.	· — · ·						[
ļ [10.35	(MW): low to medium strength, brown, fractured, very	=:=	С			8.95 - 9 subsample		<u> </u>		
F	:	steeply bedded, with iron rich layers.	· — · ·				0.50 - 5 subsample		<u> </u>		
F.,	.		· — · ·						t I		
22	- 11		. —		11.0				-11		
F	-								<u> </u>		
[.		<u> </u>								
}	-			С					‡		
	.			C					‡		
-	- -12	12-12.15 m: highly fractured.	· — · ·						- 12 -		
	-	,							ļ		
	.				12.5				F I		
	:								ţ l		
2	- -13								F		
	- 13		· — · ·						-13 [
				С			12-12.05 subsample		[
ļ	:								<u> </u>		
ţ.	:								<u> </u>		
-6	-14				14.0				-14		
F	. ' -		· — · ·		'0				ţ		
[:								<u> </u>		
E	:								ţ		
[.			С			13.25-13.5 subsample		ţ		
-6	- -15								- -15		
	:								<u> </u>		
	.		· — · ·						ļ		
	.				15.55				<u> </u>		
	.								F		
1	-16								-16		
	_			С			15.05-15.15 subsample		<u> </u>		
F E	:		· — · ·						<u> </u>		
F :	:		$ \cdot - \cdot $						ţ l		
16	:								<u> </u>		
[-	- 17	17 m: becoming brown grey, with darker brown veins,			17.0				-17		
	-	becoming grey.									
	:			С					<u> </u>		
	:		· · ·						‡		
15	.								<u> </u>		
	- 18				18.05				-18 [
									[
ļ	:								<u> </u>		
-	- 18.8		· — · ·						<u> </u>		
4	- 19	(HW): very low to low strength.		С					- -19		
[]	: '`								į." l		
[10.45		<u> </u>						ţ		
[19.45	(MW): medium strength, grey, fine to medium grained,							ţ		
<u> </u>	·	fractured, very steeply bedded, laminated, with iron rich orange brown layers.							<u> </u>		
Ŀ	20.0	Rore discontinued at 20.0m			20.0				<u> </u>		

Bore discontinued at 20.0m

RIG: GEO Comacchio DRILLER: Rock Well Drilling LOGGED: MC CASING: HQ to 4.2 m

TYPE OF BORING: Concrete coring to 0.2 m; Hand auger to 0.5 m: Solid flight auger to 3.95 m; NMLC coring to end.

WATER OBSERVATIONS: No free groundwater observed.

	SAMPLING & IN SITU TESTING LEGEND											
Α	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)							
В	Bulk sample	Р	Piston sample	PL(A) Point load axial test Is(50) (MPa)							
BLK	Block sample	U,	Tube sample (x mm dia.)	PL(D) Point load diametral test ls(50) (MPa)							
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)							
D	Disturbed sample	⊳	Water seep	S	Standard penetration test							
	Environmental comple	¥	Mater level	1/	Chaaryana (kDa)							



CLIENT: Example Pty Ltd

PROJECT: Facility
LOCATION: Somewhere

SURFACE LEVEL: 32.94 m AHD **BORE No:** BH 1

EASTING: 321040 **PROJECT No**: 0000001 **NORTHING**: 5813623 **DATE**: 28/9/2020 **SHEET** 3 OF 3

	Daniella	Description	ji T	Sampling & In Situ Testing					Well	
R	Depth (m)	of Strata	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	Construction Details	
-	-				20.0	o				
Ė	-									
-2	- - - 21			С					-21	
-	-									
F	-				21.55					
==	- -22 -								-22	
-	-			С						
<u>.</u>	-23									
	-23 -				23.0				-23	
ŀ										
-6	- - -24								-24	
ŀ										
-	-									
-8	- 25 - -								-25 	
ŀ	-									
	-26								_ -26	
Ė	-									
ŀ										
-9	-27 -								-27	
Ė	-									
-5	- - -28								- - -28	
-	-									
-	-									
4	- -29 -								-29	
-										
-	-									

RIG: GEO Comacchio DRILLER: Rock Well Drilling LOGGED: MC CASING: HQ to 4.2 m

TYPE OF BORING: Concrete coring to 0.2 m; Hand auger to 0.5 m: Solid flight auger to 3.95 m; NMLC coring to end.

WATER OBSERVATIONS: No free groundwater observed.

	SAMPLING & IN SITU TESTING LEGEND									
Α	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)					
В	Bulk sample	Р	Piston sample	PL(A	Point load axial test Is(50) (MPa)					
BLK	Block sample	U,	Tube sample (x mm dia.)	PL(D	Point load diametral test ls(50) (MPa)					
С	Core drilling	WÎ	Water sample	pp `	Pocket penetrometer (kPa)					
D	Disturbed sample	⊳	Water seep	S	Standard penetration test (
Е	Environmental sample	Ī	Water level	V	Shear vane (kPa)					



CLIENT: Example Pty Ltd

PROJECT: Facility **LOCATION:** Somewhere SURFACE LEVEL: 33.39 m AHD BORE No: BH 2

PROJECT No: 0000001 **EASTING**: 321017 **NORTHING**: 5813627 **DATE**: 29/9/2020 **DIP/AZIMUTH:** 90°/--SHEET 1 OF 3

П			Description	<u>.</u>		Sam	npling 8	& In Situ Testing	Τ.	Well
R	Dep	th	of	Graphic Log	Ð	£	<u>e</u>	Dearth- 0	Water	Construction
	(m	"	Strata	Gr.	Туре	Depth	Sample	Results & Comments	≥	Details
H		\dashv	Concrete.	\(\alpha\cdot\). \(\alpha\cdot\).		+	(O)			-
		0.2	FILL / GRAVEL : medium to coarse angular gravel, dark	XX						ļ
-81			grey, trace clay, wet.	\bowtie						ļ
F				\otimes						<u> </u>
E	.1	0.9	FILL / CONCRETE.	\times						
! [FILL / CONCRETE.	\bowtie						[
32		1.3	FILL / SILTY SAND (SP): fine to medium sand, grey and	$\langle \chi \chi \rangle$						
1			brown, trace basaltic grave, trace clay, moist.	\bowtie						ļ
ĒĒ		1.8	SILTY CLAY (CH): brown, mottled pale grey, orange,							
ŀ	2		w>PL, very stiff. (Residual)			2.0				-2
				1/1/	S			7,13,15 N = 28		ļ
<u>ب</u>						2.45				ļ
ĒĒ				1/1/						
E	3			/ //						[-3
	•			////						‡
- ₈				1/1/						
ĒĒ			3.5 m: hard.		S	3.5		20/36 mm		
F E		3.8	Core Loss.	(3.8		double bouncing		
	4	4.1								-4
+_+			SILTSTONE (XW-HW): very low to low strength, pale brown, fine grained fragments, pale grey clay seam.							-
F			, gg, p g,,		С					[
<u> </u>				· -						
	5	5.0	- 7			l				-5
ĒĒ			(HW): very low to low strength, slightly fractured, fragmented fe stain or iron crusts at joints.	. —		5.1				
78			,							
					С					
+ +	•			— · -						‡
E	6									-6 [
2						6.37				
										-
ŧ;										-
E	7									- 7
! [С					<u> </u>
- 28										-
ŧŧ										-
E E	8	8.0								-8
ļ [J	3.0	(MW): low to medium strength, brown, pale grey, slightly fractured.			8.1				
25			naciured.							-
ŧ ‡										-
E					С					[
ļ [9									- 9
										-
24			O. F. market and the state of t							<u> </u>
Į.			9.5 m: some laminations, with iron rich layer.			9.7				[
Ŀ		10.0			С					-

CASING: HQ to 4 m RIG: GEO Comacchio **DRILLER:** Rock Well Drilling LOGGED: MC

TYPE OF BORING: Concrete coring to 0.15 m; Solid flight auger to 3.8 m; NMLC coring to end.

WATER OBSERVATIONS: Groundwater between 11.5 and 12.7 m. REMARKS: Location coordinates are in MGA94 Zone 55 H.

SAMPLING & IN SITU TESTING LEGEND

LING & IN SITUTESTING
G Gas sample
P Piston sample
U Tube sample (x mm dia.)
W Water sample
Water seep
Water level A Auger sample B Bulk sample BLK Block sample Core drilling
Disturbed sample
Environmental sample

LECEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
P Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)



CLIENT: Example Pty Ltd

PROJECT: Facility **LOCATION:** Somewhere

SURFACE LEVEL: 33.39 m AHD **BORE No:** BH 2

EASTING: 321017 **PROJECT No**: 0000001 **NORTHING**: 5813627 **DATE**: 29/9/2020 **SHEET** 2 OF 3

П		Description	ပ္		Sam	npling (& In Situ Testing		Well	
R	Depth (m)	of	Graphic Log	Ф				Water	Construction	
	(111)	Strata	S. J	Type	Depth	Sample	Results & Comments	>	Details	
H		SILTSTONE (MW): predominantly medium strength, brown, pale grey, fractured to slightly fractured.				0,			-	
F_	:	brown, pale grey, fractured to slightly fractured.							-	
23									-	
[]			· — · ·	С					F	
<u> </u>	-11								[-11	
	:''				11.2				ţ''	
22									<u> </u>	
									-	
 									-	
[]	-12		· — · ·	С					-12	
1									[
2										
	:								‡	
	.				12.8				‡	
	- 13								-13	
+									-	
8			·-·	С					[
<u> </u>									[
	-14								- -14	
					14.2				ļ	
-6									-	
E	.								-	
!									[
	- 15			С					-15	
									-	
-8									-	
F	.	45.7 mg, fragmanated	— · –	-	15.7				-	
<u> </u>	- 16	15.7 m: fragmented.							_ -16	
	. "									
7									<u> </u>	
	:		· — · ·	С					<u> </u>	
[]	:								-	
<u> </u>	- 17								-17	
					17.3				<u> </u>	
-16	:	17.3 m: slightly fractured.							‡	
	:								‡	
-	:								ļ .	
[]	-18			С					-18 [
2	:		· — · ·						<u> </u>	
	:								‡	
	:			-	18.75				<u> </u>	
-	- 19								-19	
[]									[
-4				С					<u> </u>	
	:								<u> </u>	
	20.0		·-·						<u> </u>	
ш	20.01	Bore discontinued at 20.0m							1	

RIG: GEO Comacchio DRILLER: Rock Well Drilling LOGGED: MC CASING: HQ to 4 m

TYPE OF BORING: Concrete coring to 0.15 m; Solid flight auger to 3.8 m; NMLC coring to end.

WATER OBSERVATIONS: Groundwater between 11.5 and 12.7 m.

REMARKS: Location coordinates are in MGA94 Zone 55 H.

SAMPLING & IN SITU TESTING LEGEND

A Auger sample
B Bulk sample
B Bulk Slock sample
C C Core drilling
D Disturbed sample
E Environmental sample

SAMPLING & IN S11 U I ESTING
G Gas sample
P Piston sample
V Water sample
Water sample
Water seep
Water level

LECEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
P Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)



CLIENT: Example Pty Ltd

PROJECT: Facility LOCATION: Somewhere

SURFACE LEVEL: 33.39 m AHD **BORE No:** BH 2

EASTING: 321017 **PROJECT No**: 0000001 **NORTHING**: 5813627 **DATE**: 29/9/2020 **SHEET** 3 OF 3

		Description	ic	Sampling & In Situ Testing			& In Situ Testing	Ļ.	Well
R	Depth (m)	of Strata	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	Construction Details
13				С	20.2				
12	- -21 - - - -								-21
	- - - - - - -								-22 -22
10	- - -23 -								-23
6	- - - - 24 - - -								-24
8	- - - - - - - -								-25
	- - -26 -								-26
	- - - -27 -								-27
	- - - -28 - -								-28 -28
4	- - - - - - - - -								
	- - -								

RIG: GEO Comacchio DRILLER: Rock Well Drilling LOGGED: MC CASING: HQ to 4 m

TYPE OF BORING: Concrete coring to 0.15 m; Solid flight auger to 3.8 m; NMLC coring to end.

WATER OBSERVATIONS: Groundwater between 11.5 and 12.7 m.

REMARKS: Location coordinates are in MGA94 Zone 55 H.

SAMPLING & IN SITU TESTING LEGEND

A Auger sample
B Bulk sample
B Bulk Slock sample
C C Core drilling
D Disturbed sample
E Environmental sample

SAMPLING & IN S11 D LESTING
G Gas sample
P Piston sample
V Water sample (x mm dia.)
W Water sample
Water seep
Water level

LECEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
P Pocket penetrometer (kPa)
S Standard penetration test
V Shear vane (kPa)



CLIENT: Example Pty Ltd

PROJECT: Facility
LOCATION: Somewhere

SURFACE LEVEL: 33.38 m AHD **BORE No:** BH 3

EASTING: 321003 **PROJECT No**: 0000001 **NORTHING**: 5813609 **DATE**: 30/9/2020 **SHEET** 1 OF 3

		T	T						OHEET 1 OF 5		
	Donth	Description	hic Z				& In Situ Testing	JE.	Well		
RL	Depth (m)	of Strata	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	Construction Details		
H	- 0.45	Consusts	\(\frac{1}{2}\cdot\).		_	- O			1		
33	0.15 0.25										
	- - -1		1/1/		1.0				-1		
32	-	1 m: frequent siltstone fragments.		U ₆₃	1.25		pp >600 10,11,14				
	-			S	1.7		N = 25				
	-2										
31	-		1/1/		2.5		10,14,20				
	- - - 3			S	2.95		N = 34		-3		
30	-										
	- - - -4				4.0				4		
	- ⁻ - 4.3		1/1/	S	4.3		13/33 mm double bouncing				
29	- - - 4.6	SILTY CLAY (CH): pale grey, mottled pale brown, with siltstone fragments, w>PL, hard (EW Siltstone).	///	С	4.5				-		
	- - -5	SANDSTONE (MW): fine to medium grained, pale brown, pale grey, highly fractured to fractured, siltstone in parts.			5.0				-5		
28	-										
	- - - 6			С					-6		
27	-				6.5						
									-		
26	- /			С							
-											
	-8	7.75 m: slightly fractured.			8.0				-8 8		
25	-										
	- - - -9			С					-9		
47	-										
-	-			С	9.5						
	10.0		[::::::						<u> </u>		

RIG: GEO Comacchio DRILLER: Rock Well Drilling LOGGED: MC CASING: HQ to 4.3 m

TYPE OF BORING: Concrete coring to 0.15 m; Solid flight auger to 4.3 m; HQ coring to end.

WATER OBSERVATIONS: No free groundwater observed.

	SAMPLING & IN SITU TESTING LEGEND											
Α	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)							
В	Bulk sample	Р	Piston sample	PL(A	Point load axial test Is(50) (MPa)							
BLK	Block sample	U,	Tube sample (x mm dia.)	PL(D	Point load diametral test ls(50) (MPa)							
С	Core drilling	WÎ	Water sample	pp `	Pocket penetrometer (kPa)							
D	Disturbed sample	⊳	Water seep	S	Standard penetration test							
E .	Emironmental comple	•	Mater level	1/	Chaar vana (kDa)							



CLIENT: Example Pty Ltd

PROJECT: Facility
LOCATION: Somewhere

SURFACE LEVEL: 33.38 m AHD **BORE No:** BH 3

EASTING: 321003 **PROJECT No**: 0000001 **NORTHING**: 5813609 **DATE**: 30/9/2020 **SHEET** 2 OF 3

		Description	. <u>o</u>		Sam		& In Situ Testing	L	Well
RL	Depth (m)	of	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	Construction
	()	Strata	g	Ţ	Del	San	Comments		Details
23	- - - - - - -11 11.0	SANDSTONE (MW): fine to medium grained, pale brown, pale grey, highly fractured to fractured, siltstone in parts. 11.1 m: unbroken.		С	- 11.0				-11
22	- - - - - -	SILTSTONE (MW): low strength, fine grained, grey, with brown sandstone laminae, slightly fractured.		С					
21	- 12 - 12 				12.5				12
	12.6 - - -13	SANDSTONE (MW): medium to high strength, fine to medium grains, brown, highly fractured, iron staining at joints.		С	12.0				-13
20	- - - - - -14				14.0				-14
19				С					
18	- 14.9 -15 -	SILTSTONE / SANDSTONE (MW): grey, pale brown, fine to medium grains, fractured to slightly fractured, frequent iron stained and iron crust at joints.			- 15.35				15
	- - - 16 -			С					- 16
17	- - - - - - 17				16.9				-17
16	- - - -			С					
15	- -18 - - - - - 18.5	(MW-SW): medium to high strength.			18.5				18
	- - - -19 -	(миv-эvv): meaium to nign strength.		C	18.7 18.85				- 19
14	20.0	Bore discontinued at 20 0m		С					-

Bore discontinued at 20.0m

RIG: GEO Comacchio DRILLER: Rock Well Drilling LOGGED: MC CASING: HQ to 4.3 m

TYPE OF BORING: Concrete coring to 0.15 m; Solid flight auger to 4.3 m; HQ coring to end.

WATER OBSERVATIONS: No free groundwater observed.

	SAMPLING & IN SITU TESTING LEGEND													
Α	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)									
В	Bulk sample	Р	Piston sample	PL(A)	Point load axial test Is(50) (MPa)									
BLK	Block sample	U _x	Tube sample (x mm dia.)	PL(D	Point load diametral test ls(50) (MPa)									
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)									
D	Disturbed sample		Water seep	S	Standard penetration test									



CLIENT: Example Pty Ltd

PROJECT: Facility LOCATION: Somewhere

SURFACE LEVEL: 33.38 m AHD **BORE No:** BH 3

EASTING: 321003 **PROJECT No:** 0000001 **NORTHING:** 5813609 **DATE:** 30/9/2020 **SHEET** 3 OF 3

- 1	Depth (m)	Description	Graphic Log	Sampling & In Situ Testing					Well
R		of Strata		Туре	Depth	Sample	Results & Comments	Water	Construction Details
	-21			С	21.2				-21
11 12 12	- 22			С	21.2				-22
10	-23				22.65				-23
-	-24								-24
- 80	- -25 - -								-25
	- 26 26 								-26
- 9	- -27 -								-27
	- -28 - - -								-28
-4	- 29								-29

RIG: GEO Comacchio DRILLER: Rock Well Drilling LOGGED: MC CASING: HQ to 4.3 m

TYPE OF BORING: Concrete coring to 0.15 m; Solid flight auger to 4.3 m; HQ coring to end.

WATER OBSERVATIONS: No free groundwater observed.

REMARKS: Location coordinates are in MGA94 Zone 55 H. Standpipe installed upon completion.

A Auger sample G G Gas sample Ploto ionisation detector (ppm) B Bulk sample P Piston sample PL(A) Point load axial test is (50) (MPa) BLK Block sample U, Tube sample (x mm dia.) C Core drilling W Water sample PL(D) Point load diametral test is (50) (MPa) D Disturbed sample P Water seep S S Standard penetration test E Environmental sample W Water level V Shear vane (kPa)

