

BOREHOLE LOG

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
DIP/AZIMUTH: 90°/-- **SHEET 1 OF 3**

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
	0.2	Concrete.								
		FILL / GRAVEL (GP): fine to medium angular gravel (crushed rock), grey, wet.								
	1.1	at 1 m: geofabric.								
		FILL / SANDY CLAY (CI): fine to coarse sand, brown, grey, trace basalt gravel, w < PL, strong hydrocarbon smell.								
	2.25	SILTY SAND (SP): fine to medium sand, pale grey, dry, loose. (Brighton Group)		S	2.0		3.5.5 N = 10			
	2.6	SILTY CLAY (CH): light brown, trace siltstone fragments, W > PL, hard. (Residual)			2.45					
	3	3 m: hard.								
	3.5	3.5 m: mottled pale grey, XW siltstone.		S	3.5		21,25,29 N = 54			
	3.95	Core Loss.			3.95					
	4.0	SILTY CLAY (CH): pale brown, mottled pale grey, w > PL, very stiff to hard, with bands of XW-HW siltstone.		C	4.3		pp = 270-480 4.3-4.5 subsample			
	5			U ₆₃	5.0		pp = 400-400			
	5.35				5.35					
	6			C	6.0		pp = 200-580			
	6.45	SILTSTONE (HW): very low to low strength, fine grained, pale brown, grey, slightly fractured, friable, wet.			6.5		6.85- 7 subsample			
	7			C	6.85		6.5 - 6.6 Subsample			
	7.5	7.5 m: becoming pale brown, laminated, with brown iron rich layers, steeply bedded.			8.0					
	8			C						
	9				9.5		8.95 - 9 subsample			
	9.6	(HW-MW): low strength.		C						
	10.0									

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.

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

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo 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.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	pp	Standard penetration test
E	Environmental sample	W	Water level	S	Shear vane (kPa)

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DIP/AZIMUTH: 90°/-- **SHEET 2 OF 3**

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
	10.35	SILTSTONE (HW-MW): low strength.								
		(MW): low to medium strength, brown, fractured, very steeply bedded, with iron rich layers.		C			8.95 - 9 subsample			
	11				11.0					
	12	12-12.15 m: highly fractured.		C						
					12.5					
	13			C			12-12.05 subsample			
					14.0					
	15			C			13-25-13.5 subsample			
					15.55					
	16			C			15.05-15.15 subsample			
					17.0					
	17	17 m: becoming brown grey, with darker brown veins, becoming grey.		C						
					18.05					
	18.8	(HW): very low to low strength.		C						
	19.45	(MW): medium strength, grey, fine to medium grained, fractured, very steeply bedded, laminated, with iron rich orange brown layers.								
	20.0				20.0					

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.

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

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
BB	Bulk sample	P	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 Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	sp	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

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BORE No: BH 1
PROJECT No: 0000001
DATE: 28/9/2020
SHEET 3 OF 3

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
					20.0					
				C						
	21									21
					21.55					
	22			C						22
					23.0					23
	23									
										24
	24									
										25
	25									
										26
	26									
										27
	27									
										28
	28									
										29
	29									

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WATER OBSERVATIONS: No free groundwater observed.

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

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo 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.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	WL	Water level	V	Shear vane (kPa)

BOREHOLE LOG

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
DIP/AZIMUTH: 90°/-- **SHEET** 1 OF 3

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
33	0.2	Concrete.								
		FILL / GRAVEL : medium to coarse angular gravel, dark grey, trace clay, wet.								
1	0.9	FILL / CONCRETE.								
33	1.3	FILL / SILTY SAND (SP): fine to medium sand, grey and brown, trace basaltic grave, trace clay, moist.								
2	1.8	SILTY CLAY (CH): brown, mottled pale grey, orange, w>PL, very stiff. (Residual)		S	2.0		7,13,15 N = 28			
31					2.45					
3										
30		3.5 m: hard.		S	3.5		20/36 mm double bouncing			
3	3.8	Core Loss.			3.8					
4	4.1	SILTSTONE (XW-HW): very low to low strength, pale brown, fine grained fragments, pale grey clay seam.		C						
29										
5	5.0	(HW): very low to low strength, slightly fractured, fragmented fe stain or iron crusts at joints.			5.1					
28				C						
6										
27					6.37					
7				C						
26										
8	8.0	(MW): low to medium strength, brown, pale grey, slightly fractured.			8.1					
25				C						
9										
24		9.5 m: some laminations, with iron rich layer.			9.7					
10.0				C						

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	G	Gas sample	PID	Photo 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.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	sp	Standard penetration test
E	Environmental sample	≡	Water level	S	Shear vane (kPa)

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NORTHING: 5813627
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BORE No: BH 2
PROJECT No: 0000001
DATE: 29/9/2020
SHEET 2 OF 3

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
23		SILTSTONE (MW): predominantly medium strength, brown, pale grey, fractured to slightly fractured.		C						
11					11.2				11	
22										
12				C					12	
21					12.8					
13									13	
20				C						
14					14.2				14	
19										
15				C					15	
18		15.7 m: fragmented.			15.7					
16									16	
17				C						
17					17.3				17	
16		17.3 m: slightly fractured.								
18				C					18	
15										
19					18.75				19	
14				C						
20.0										

Bore discontinued at 20.0m

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	G	Gas sample	PID	Photo 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.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

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DIP/AZIMUTH: 90°/-- **SHEET** 3 OF 3

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing			Water	Well Construction Details	
				Type	Depth	Sample		Results & Comments	
13				C	20.2				
21								21	
12									
22								22	
11									
23								23	
10									
24								24	
9									
25								25	
8									
26								26	
7									
27								27	
6									
28								28	
5									
29								29	
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	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	W	Water seep
E	Environmental sample	W	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



BOREHOLE LOG

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
DIP/AZIMUTH: 90°/-- **SHEET** 1 OF 3

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
33.38	0.15	Concrete.								
33.13	0.25	FILL / GRAVEL (GP): medium to coarse, angular gravel, dark grey, trace sand, trace clay, wet.								
		SILTY CLAY (CH): pale brown, mottled pale grey, w<PL, hard. (Residual)								
	1	1 m: frequent siltstone fragments.								
32.13	1.0			U ₆₃	1.0		pp >600			1
	1.25			S	1.25		10,11,14 N = 25			
	1.7				1.7					
31.13	2.5			S	2.5		10,14,20 N = 34			2
	2.95				2.95					3
30.13	4.0			S	4.0		13/33 mm double bouncing			4
29.13	4.3	SILTY CLAY (CH): pale grey, mottled pale brown, with siltstone fragments, w>PL, hard (EW Siltstone).			4.3					
28.13	4.6	SANDSTONE (MW): fine to medium grained, pale brown, pale grey, highly fractured to fractured, siltstone in parts.		C						
	5.0				5.0					5
27.13	6.5			C						6
	8.0			C						7
26.13	7.75	7.75 m: slightly fractured.								
	9.5			C						8
24.13	10.0									9

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.

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U _j	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	W	Water seep
E	Environmental sample	W	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)

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SURFACE LEVEL: 33.38 m AHD **BORE No:** BH 3
EASTING: 321003 **PROJECT No:** 0000001
NORTHING: 5813609 **DATE:** 30/9/2020
DIP/AZIMUTH: 90°/-- **SHEET 2 OF 3**

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
23		SANDSTONE (MW): fine to medium grained, pale brown, pale grey, highly fractured to fractured, siltstone in parts. 11.1 m: unbroken.		C						
11	11.0	SILTSTONE (MW): low strength, fine grained, grey, with brown sandstone laminae, slightly fractured.			11.0					11
12				C						12
12.6		SANDSTONE (MW): medium to high strength, fine to medium grains, brown, highly fractured, iron staining at joints.			12.5					
13				C						13
14					14.0					14
14.9		SILTSTONE / SANDSTONE (MW): grey, pale brown, fine to medium grains, fractured to slightly fractured, frequent iron stained and iron crust at joints.		C						15
15					15.35					15
16				C						16
17					16.9					17
18				C						18
18.5		(MW-SW): medium to high strength.		C	18.5					
19				C	18.7					
				C	18.85					19
20.0				C						

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

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PLD	Photo 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.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

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SHEET 3 OF 3

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
13				C						
21					21.2					
22				C						
					22.65					
23										
24										
25										
26										
27										
28										
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.

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

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo 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.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)