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ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No **BH101**
SHEET **1** of **4**
REFERENCE No **11460**

PROJECT Townsville Ring Road Section 4
LOCATION Kalynda Parade Overpass COORDINATES 467727.6 E; 7866454.1 N
PROJECT No FG6020 SURFACE R.L. 14.33m PLUNGE _____ DATE STARTED 21/3/13 GRID DATUM GDA 94
JOB No 268/10M/5 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 22/3/13 DRILLER Cairns Drilling

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	14.33												
14.03						Silty SAND (TOPSOIL) Brown, moist, very loose. Fine grained sand. Some Tree roots.							
					A	Silty Clayey SAND Brown, moist, very loose to loose. Fine grained sand. Occasional gravel.						1,1,1 N=2	SPT
1						Becoming pale brown with orange mottling in parts, medium to coarse grained.	(SM)						
					B							2,3,4 N=7	SPT
2													
12.03					C	Silty CLAY Pale grey, brown with orange mottling in parts, moist, hard. Low plasticity.						MC = 18.9% LL=33.8% PI=12% LS=8.8% 19,30/90,HB N>50	SPT
3							(CL)						
					D							30/90,HB N>50	SPT
4													
10.03					E	Silty Clayey SAND Pale grey, brown, slightly moist, very dense. Fine grained sand.						26,30/90,HB N>50	SPT
5													
					F	Becoming fine to medium grained.						30/110 N>50	SPT
6													
					G		(SM)					20,21,30/100 N>50	SPT
7													
					H							12,21,30/120 N>50	SPT
8													
9													
10													

REMARKS Standpipe piezometer installed.

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BOREHOLE No BH101
SHEET 2 of 4
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PROJECT Townsville Ring Road Section 4
LOCATION Kalynda Parade Overpass COORDINATES 467727.6 E; 7866454.1 N
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JOB No 268/10M/5 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 22/3/13 DRILLER Cairns Drilling

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	4.33												
					J	Silty Clayey SAND (Cont'd) Becoming medium to coarse grained.	(SM)					23,30/100,HB N>50	SPT
	2.83				K	Sandy CLAY Grey, brown, moist, hard. Medium plasticity.	(CL)					MC = 28.5% LL=41.6% PI=16.8% LS=11.2% 6,16,30/140 N>50	SPT
	1.03				L	Silty Clayey SAND Grey, brown with orange mottling in parts, moist, dense. Fine grained sand.						12,20,28 N=48	SPT
					M	Becoming medium to coarse grained.	(SM)					13,17,20 N=37	SPT
	-1.98				N	Sandy CLAY Grey, brown with orange mottling, moist, hard. Low plasticity.	(CL)					MC = 25% LL=34% PI=13% LS=8.8% 10,18,30 N=48	SPT
					P							11,18,24 N=42	SPT
	-4.98				Q	Silty Clayey SAND Grey, brown with orange mottling in parts, moist, dense. Fine to medium grained sand.	(SM)					9,13,17 N=30	SPT

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SHEET 3 of 4
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DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
20	-5.68													
21					R	Silty Clayey SAND (Cont'd)								
22							(SM)							
23					S									
24	-9.18				T	Clayey SILT Pale greyish brown, slightly moist, hard. Low plasticity.								
25	-10.68				U	Silty Clayey SAND Pale grey, brown with orange mottling in parts, slightly moist, very dense. Fine to medium grained sand. Occasional fine gravel.								
26					V									
27							(SM)							
28					W									
29														
30	-15.68													

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30	-15.68												
31					X	Silty Sandy CLAY Pale grey, brown with orange mottling in parts, slightly moist, hard. Intermediate plasticity.						MC = 23.1% LL=44% PI=19.2% LS=12.8% 14,24,30/130 N>50	SPT
32					Y		(CI)					15,24,30/130 N>50	SPT
33					Z	Becoming medium to coarse grained sand.						14,20,30 N=50	SPT
34	-19.68				AA	Clayey SAND Pale grey, brown, moist, very dense. Fine to coarse grained sand. Occasional fine, subrounded gravel.						30,30/130 N>50	SPT
35							(SC)						
36					AB							26,30/100 N>50	SPT
37	-22.48					GRANITE Medium to coarse grained, intrusive igneous rock of felsic composition. XW: Generally exhibits engineering properties of a pale grey / brown with minor orange mottling, moist, very dense to extremely low strength clayey silt.		XW				30/40 HB N>50	SPT
38	-23.18				AC	Borehole terminated at 37.5m							
39													
40													

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