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ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/5-2009

BOREHOLE No BH14
SHEET 1 of 2
REFERENCE No H10443

PROJECT Gateway Upgrade North (GUN)
LOCATION At CPTU 15 End Nudgee Rd/Gateway Ramp COORDINATES 509512.2 E; 6971854.8 N
PROJECT No FP5249 SURFACE R.L. 4.40m PLUNGE -90° DATE STARTED 13/10/08 GRID DATUM MGA94 Zone 56J
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 13/10/08 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING						GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
							EH	VH	IM	JL	VL	EL				20
0	4.40					FILL (GRAVELLY CLAY) Brown, slightly dry to mainly moist, stiff. Possibly engineered fill.										
0.5					A										3,3,6 N=9	SPT
1.5					B										3,6,5 N=11	SPT
2.5	1.25				C	SANDY CLAYEY SILT, OC CRUST (ORIGINAL NATURAL SURFACE) Black, slightly dry to mainly moist, soft.	(OH)								3,2,1 N=3	SPT
3.5	0.40				D	Medium to high plasticity; organic; partially decomposed plant material throughout; minor fine grained sand fraction.									HW,2,12 N=14	SPT
4.5					E	CLAYEY SANDY GRAVEL Brown, moist to wet, medium dense. Gravels comprise rounded quartzitic and lithic particles sizing up to 20mm.	(GC)								8,9,6 N=15	SPT
6.0	-1.40				F	ESTUARINE SILTY CLAY Dark grey, moist, mainly firm to stiff, moderately sensitive. High plasticity; moderate to high silt fraction; highly decomposed plant material throughout; organic.									Testing from 6.1-6.4m MC=78%, WD=1.60(t/m ³), DD=0.90(t/m ³) LL=68%, PI=38%, LS=18% PP(Su)=56kPa	U100
7.5					G										Peak(Su)=41kPa Res(Su)=14kPa	FSV
8.5					H		OH								MC=100%, WD=1.50(t/m ³), DD=0.76(t/m ³) OC=14.35% LL=74%, PI=43%, LS=18% Oed:GS08-556 (See remarks) PP(Su)=23kPa	U100
9.0					J	Possible sand lens (from CPTu logs) Becoming brownish grey and containing occasional fine grained sand from 9.0m.									HW,1,3 N=4; MC=40% LL=56%, PI=36%, LS=16%	SPT

REMARKS Oedometer consolidation test - Q183/ AS1289.6.6.1 : Specimen number provided, refer to test report for results.

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BOREHOLE No BH14
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REFERENCE No H10443

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JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 13/10/08 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								EH	VH	VI	VI	VI				
10	-5.60				K	ESTUARINE SILTY CLAY (Cont) Below 10.0m, material contains low strength ironstone kernals <10mm in diameter.	OH							HW,2,3 N=5; MC=40% LL=68%, PI=45%, LS=17%	SPT	
11	-6.10				L	ALLUVIAL(?) SILTY CLAY Grey to mottled orange, moist, firm. Medium to high plasticity.								1,2,3 N=5	SPT	
12					M		(CH)							MC=31%, WD=1.86(t/m ³), DD=1.42(t/m ³)	U50	
13	-9.05				N									2,3,4 N=7	SPT	
14						Borehole terminated at 13.45m										
15																
16																
17																
18																
19																
20																

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