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## ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND  
SYMBOLS REFER FORM F:GEOT 017/2-2004

BOREHOLE No BH117

SHEET 1 of 2

REFERENCE No H9426

PROJECT GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION

LOCATION CONTROL LINE: MCAO - Ch. 21499.6 - OFFSET 62.2 R COORDINATES 9050.4 E; 171876.9 N

PROJECT No FM2055 SURFACE R.L. 1.72 DATE STARTED 15/7/04 DATUM SETP

JOB No                      DATUM AHD DATE COMPLETED 15/7/04 DRILLER R & D Drilling Pty Ltd

DEPTH (m)	R L (m)	ALGER 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
									EH	VH	H	M	L	VL	EL		
0	1.72					<b>GRAVELLY SILTY CLAY - FILL</b> Dark brown to dark grey brown, moist, soft to firm with depth.											
1							CL										2,2,2 N=4 SPT
2	-0.38					<b>ESTUARINE WEATHERED OC CRUST</b> Pale grey to mottled, moist to wet, very soft to firm, extra sensitive.  Slightly organic throughout, medium to high plasticity, high organic content.										$\nabla$ 7/9/04 Peak Su=74kPa, Res Su=6kPa $\nabla$ 6/10/04  MC=66.2%, WD=1.04t/m3, DD=0.64t/m3	FSV
3							OL										U100
4																Peak Su=45kPa, Res Su=3kPa	FSV
5	-3.18					<b>SAND AND GRAVEL</b> Pale grey, wet, loose, high shell content, subangular to angular quartzitic gravel sizing up to 30mm; minor fine fraction.										No recovery	U100
6	-3.88					<b>ESTUARINE SILTY CLAY</b> Dark grey, moist, soft to firm, sensitive.  High organic content, high plasticity.										Peak Su=42kPa, Res Su=6kPa	FSV
7							OH									APD=2.693t/m3 LL=77.0%, PI=43.2%, LS=21.4% MC=91.0%, WD=0.98t/m3, DD=0.52t/m3	U100
8	-6.38					<b>SILTY SAND - ALLUVIUM</b> Pale brown to brown, wet, loose.  Fine sand, minor silty clay towards bottom.										Peak Su=128kPa, Res Su=64kPa	FSV
9							SM										3,4,5 N=9 SPT
10	-8.28																

REMARKS

LOGGED BY  
D.Marks & A.Dissanayake



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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
10	-8.28					<b>SILTY CLAY - ALLUVIUM</b> Pale grey to mottled orange, moist, very stiff.  Medium to high plasticity.		CI				Peak Su>160kPa	FSV
11	-9.68					<b>SILTY SAND - ALLUVIUM</b> Pale brown to brown, wet, medium dense, fine sand.		SM				5,9,5 N=14	SPT
12	-10.78					<b>SANDY SILTY CLAY - ALLUVIUM</b> Pale brown to grey brown, moist, firm to stiff.  Medium plasticity.		CL				1,2,3 N=5	SPT
13												2,4,4 N=8	SPT
14													
15													
16	-14.28					<b>SILTY CLAY - ALLUVIUM</b> Pale brown, moist, firm to mainly stiff.  Medium to high plasticity, minor fine sand fraction.		CI				2,4,5 N=9	SPT
17													
18	-16.28					<b>SAND - ALLUVIUM</b> Pale grey to brown, wet, medium dense.  Fine grained sand.		SP					
19	-17.73											3,11,13 N=24	SPT
20						Borehole terminated at 19.45m							

REMARKS

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