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**Queensland  
Government**

Department of  
Main Roads

# ENGINEERING BOREHOLE

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

BOREHOLE No   BH119  

SHEET   1   of   2  

REFERENCE No   H9428  

PROJECT   GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION  

LOCATION   CONTROL LINE: MCAO - Ch. 21838.2 - OFFSET 42.4 R   COORDINATES   9239.9 E; 172148.2 N  

PROJECT No   FM2055   SURFACE R.L.   0.90   DATE STARTED   8/7/04   DATUM   SETP  

JOB No                      DATUM   AHD   DATE COMPLETED   8/7/04   DRILLER   R & D Drilling Pty Ltd  

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY					GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
							USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	SC			
0	0.90					<b>GRAVELLY SILTY CLAY - FILL</b> Mottled grey brown, moist, firm to stiff silty clay comprising sandstone fragments.	CL						5,4,4 N=8	SPT
0.40						<b>ESTUARINE WEATHERED OC CRUST</b> Grey brown to mottled brown, moist, soft to firm.  Frquent live roots; minor organic content.	OL					MC=28.8%, WD=1.94t/m3, DD=1.50t/m3	1,2,1 N=3	U50 SPT
-0.85						<b>ESTUARINE SILTY CLAY</b> Dark grey to mottled brown, moist, mainly soft to firm, extra sensitive.  Minor sand fractions (<5%); high plasticity.	OH					Peak Su >30.0kPa Peak Su=35.2kPa, Res Su=3.2kPa		FSV FSV
-2.29						<b>ESTUARINE SILTY SAND</b> Dark grey to grey moist, loose. Medium to coarse grained sand; becoming clayey with depth.	SM					MC=35.0%, WD=1.92t/m3, DD=1.42t/m3		U100
-2.85						<b>ESTUARINE SILTY CLAY</b> Dark grey to grey, moist, sensitive.  High shell content towards bottom; minor clayey sand interlayers.	OH					Peak Su=24.3kPa, Res Su=3.6kPa		FSV
-4.35						<b>SANDY SILTY CLAY - ALLUVIUM</b> Pale grey green to to mottled orange, moist, firm to mainly stiff.  Fine grained sand.	CL					MC=44.8%, WD=1.84t/m3, DD=1.28t/m3		U100
													3,5,6 N=11	SPT
													4,4,7 N=11	SPT
													3,3,7 N=10	SPT

REMARKS

LOGGED BY  
B.Woodgate & A.Dissanayake



# ENGINEERING BOREHOLE

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

BOREHOLE No   BH119    
SHEET   2   of   2    
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DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	-9.10					SANDY SILTY CLAY - ALLUVIUM (As above)	CL					4,6,6 N=12	SPT
11	-10.10					SAND - ALLUVIUM Pale brown to orange brown, moist to mainly wet, medium dense. Mainly fine to medium sand.						4,5,6 N=11	SPT
12													
13												3,8,12 N=20	SPT
14							SP						
15												4,6,8 N=14	SPT
16	-15.55											7,8,10 N=18	SPT
17						Borehole terminated at 16.45m							
18													
19													
20													

BOREHOLE WITH LITHOLOGY GATEWAY NORTHERN UPGRADE.GPJ ENG BOREHOLE FINAL.GDT 28/4/05

REMARKS \_\_\_\_\_

LOGGED BY  
**B.Woodgate & A.Dissanayake**