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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 BH129
SHEET 1 of 3
REFERENCE No H9438

PROJECT GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION
LOCATION CONTROL LINE: MCAO - Ch. 23355.3 - OFFSET 4.9 R COORDINATES 9427.5 E; 173604.6 N
PROJECT No FM2055 SURFACE R.L. 1.68 DATE STARTED 18/8/04 DATUM SETP
JOB No DATUM AHD DATE COMPLETED 18/8/04 DRILLER R&D DRILLING PTY LTD

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	1.68					SANDY SILTY CLAY - TOPSOIL Dark grey to mottled orange, moist, soft to firm, high plasticity, fine to coarse sand.							
1							CI					▽ 7/9/04 ▽ 6/10/04 ▽ 18/8/04	1,2,1 N=3 SPT
2	-0.02					SAND / CLAYEY SAND - ALLUVIUM Orange grey to orange brown, wet, mainly loose to medium dense. Minor fine fraction.							2,2,2 N=4 SPT
3													3,5,6 N=11 SPT
4						Becoming medium dense with depth.	SP-SC						4,5,6 N=11 SPT
5													
6													5,4,6 N=10 SPT
7	-4.92					SILTY SAND - ALLUVIUM Pale grey to orange brown, slightly moist, mainly very stiff. Fine grained sand, slightly clayey silt towards bottom.							4,5,10 N=15 SPT
8							SM						
9													8,9,13 N=22 SPT
10	-8.32												

REMARKS Defect angles have been measured with respect to a horizontal plane.

LOGGED BY
B.Woodgate & A.Dissanayake



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ENGINEERING BOREHOLE

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BOREHOLE No BH129

SHEET 2 of 3

REFERENCE No H9438

PROJECT GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION

LOCATION CONTROL LINE: MCAO - Ch. 23355.3 - OFFSET 4.9 R

COORDINATES 9427.5 E, 173604.6 N

PROJECT No FM2055

SURFACE R.L. 1.68

DATE STARTED 18/8/04

DATUM SETP

JOB No

DATUM AHD

DATE COMPLETED 18/8/04

DRILLER R&D DRILLING PTY LTD

DEPTH (m)	R.L. (m)	ALUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	-8.32					SILTY SAND - ALLUVIUM (As above)						7,10,13 N=23	SPT
11													
12							SM					5,9,9 N=18	SPT
13	-11.32					SANDY CLAY - ALLUVIUM Pale grey, moist to slightly dry, very stiff, high plasticity.	CI					4,8,10 N=18	SPT
14	-12.32					SANDY SILTY CLAY - ALLUVIUM Grey brown to dark mottled brown, moist to mainly dry, mainly very stiff.							
15						Frequent irregular mottling, some concretions and some Mn oxide nodules.						6,8,11 N=19	SPT
16												7,10,14 N=24	SPT
17							CL						
18												7,10,14 N=24	SPT
19												7,11,16 N=27	SPT
20	-18.07 -18.32					SANDSTONE (See next page)	XW						

REMARKS Defect angles have been measured with respect to a horizontal plane.

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ENGINEERING BOREHOLE

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BOREHOLE No BH129

SHEET 3 of 3

REFERENCE No H9438

PROJECT GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION

LOCATION CONTROL LINE: MCAO - Ch. 23355.3 - OFFSET 4.9 R

COORDINATES 9427.5 E, 173604.6 N

PROJECT No FM2055

SURFACE R.L. 1.68

DATE STARTED 18/8/04

DATUM SETP

JOB No _____

DATUM AHD

DATE COMPLETED 18/8/04

DRILLER R&D DRILLING PTY LTD

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	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	I	S	JUL						
20	-18.32																		
	-18.82					SANDSTONE FINE TO MEDIUM GRAINED, MAINLY LAMINATED TO MASSIVE, POORLY CEMENTED ROCK. XW : Possible XW rock. MW : Orange brown to blue brown, mainly laminated to massive, mainly medium strength. Some carbonaceous laminations. Defects - Generally rare. - Drilling induced lamination partings <10deg (1-2/m).		XW								Drilling record only			
21			(89)														Is(50)=0.93 MPa Is(50)=0.90 MPa	o x	
22								MW									Is(50)=0.53 MPa Is(50)=0.21 MPa	o x	
23			100 (100)														Is(50)=0.53 MPa Is(50)=0.89 MPa Is(50)=0.32 MPa Is(50)=0.86 MPa	o x o x	
24	-21.84					SW : Dark grey to blue grey, laminated to massive, mainly medium strength. Frequent carbonaceous laminations and occasional scattered rip-up clasts. Defects - Generally rare. - Occasional drilling induced lamination partings 20-40deg (1/m).		SW									Is(50)=0.52 MPa Is(50)=0.69 MPa Is(50)=0.73 MPa Is(50)=0.12 MPa	o x o x	
25			100 (100)					MW											
26																	Is(50)=0.52 MPa Is(50)=0.34 MPa	o x	
27								SW									Is(50)=1.60 MPa Is(50)=0.81 MPa	o x	
28	-25.92		100														Is(50)=0.65 MPa Is(50)=0.47 MPa Is(50)=0.53 MPa Is(50)=0.58 MPa	o x o x	
29																			
30						Borehole terminated at 27.6m													

REMARKS Defect angles have been measured with respect to a horizontal plane.

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

Project: **Gateway Upgrade Project Geotechnical Investigation**
Borehole No: **BH 129**
Start Depth: 20.50m
Finish Depth: 27.50m
Project No: FM2055
H No: 9438

