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**Queensland  
Government**  
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Main Roads

## ENGINEERING BOREHOLE

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

BOREHOLE No **BH143**  
SHEET **1** of **2**  
REFERENCE No **H9580**

PROJECT **GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION**  
LOCATION \_\_\_\_\_ COORDINATES **9286.9 E; 169946.7 N**  
PROJECT No **FM2055** SURFACE R.L. **2.72** DATE STARTED **31/1/05** DATUM **SETP**  
JOB No \_\_\_\_\_ DATUM **AHD** DATE COMPLETED **31/1/05** DRILLER **R&D DRILLING PTY LTD**

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	2.72					<b>SILTY CLAY - FILL</b> Dark grey brown, moist, firm to mainly stiff. Medium to high plasticity.									
1						Becoming dark grey coal ash and clay, with minor gravel to cobble size rock fragments.		CI					MC=41.8%; WD=1.74t/m <sup>3</sup> ; DD=1.22t/m <sup>3</sup>	U100	
2	0.72												Minor glass fragments		
3						<b>POSSIBLE ESTUARINE WEATHERED OC CRUST</b> Pale orange to pale grey, moist, firm silty clay.		OL					MC=46.6%; WD=1.74t/m <sup>3</sup> ; DD=1.20t/m <sup>3</sup> ; LL=63.2%; PI=35.6%; LS=18.0%; APD=2.66t/m <sup>3</sup>	U100	
4	-0.78					Becoming silty sandy clay with depth, exhibits slight desiccations and fissuring; occasional iron-oxide nodules and concretions.							MC=36.0%; WD=1.84t/m <sup>3</sup> ; DD=1.36t/m <sup>3</sup>	U100	
5						<b>ESTUARINE SILTY CLAY</b> Dark grey, moist, firm.							MC=68.2%; WD=1.52t/m <sup>3</sup> ; DD=0.90t/m <sup>3</sup> Silty sand layer	U100	
6						High organic content; partly decomposed root fragments.							MC=72.8%; WD=1.54t/m <sup>3</sup> ; DD=0.88t/m <sup>3</sup> ; PP=27 kPa	U100	
7								OH					MC=86.4%; WD=1.52t/m <sup>3</sup> ; DD=0.82t/m <sup>3</sup> ; PP=22kPa Peat layer Peat layer	U100	
8													MC=96.4%; WD=1.48t/m <sup>3</sup> ; DD=0.76t/m <sup>3</sup> ; PP=22kPa Peat layer Peat layer MC=99.0%; D=1.46t/m <sup>3</sup> ; DD=0.74t/m <sup>3</sup> ; PP=22kPa Peat layer	U100	
9													MC=93.4%; WD=1.48t/m <sup>3</sup> ; DD=0.76t/m <sup>3</sup> ; LL=84%; PI=46.4%; LS=22.0%; APD=2.72t/m <sup>3</sup>	U100	
10	-6.53					<b>SANDY SILTY CLAY - ALLUVIUM</b> Pale grey to orange mottled, moist, stiff.		CI					MC=91.2%; WD=1.48t/m <sup>3</sup> ; DD=0.78t/m <sup>3</sup>	U100	
11	-7.28												MC=99.6%; WD=1.44t/m <sup>3</sup> ; DD=0.72t/m <sup>3</sup>	U100	
12													MC=29.4%; WD=1.94t/m <sup>3</sup> ; DD=1.50t/m <sup>3</sup>	U100	

REMARKS \_\_\_\_\_

LOGGED BY  
**A.Dissanayake**



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BOREHOLE No BH143

SHEET 2 of 2

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LOCATION \_\_\_\_\_ COORDINATES 9286.9 E; 169946.7 N

PROJECT No FM2055 SURFACE R.L. 2.72 DATE STARTED 31/1/05 DATUM SETP

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10	-7.28					<b>SILTY CLAY - ALLUVIUM</b> Red brown to dark red brown, moist, very stiff.  Frequent iron-oxide concretions.		CI					
11	-8.23					Borehole terminated at 10.95m						4,4,7 N=11	SPT
12													
13													
14													
15													
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17													
18													
19													
20													

REMARKS \_\_\_\_\_

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