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**Queensland  
Government**

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**Main Roads**

# ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND  
SYMBOLS REFER FORM F:GEOT 017/3-2005

BOREHOLE No BH39

SHEET 1 of 2

REFERENCE No H9752

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Bertha St O'pass. Abutment B, Approximate Chainage 12895m, 9m left of control MC20. COORDINATES 28571.0 E; 146929.0 N

PROJECT No FG5404 SURFACE R.L. 10.40 DATE STARTED 11/10/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 11/10/05 DRILLER Drillsure

DEPTH (m)	R.L. (m)	ALGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								EH	VH	IM	JL	VL				
0	10.40															
	10.25					ASPHALT ROADBASE										
	9.80															
	9.40					CLAYEY SILT (Fill) Pale grey, mottled. Based on drillers logs.										
1						CONCRETE Old pavement.									Old concrete pavement.	10/50 N>50 SPT
	8.90					SANDY SILTY CLAY (Fill) Pale yellow orange mottled, moist, firm, low plasticity. Contains a minor coarse grained sand fraction. Appears to be an XW sandstone used as fill.										
2																
	6.40					SILTY CLAY (Alluvium) Dark brown, moist, stiff, medium plasticity.	CI									3,5,5 N=10 SPT
4																
	4.90					SAND (Alluvium) Grey to pale orange, moist, medium dense. Fine to medium grained, becoming finer with depth.	SW									9,11,10 N=21 SPT
6																
7																6,7,16 N=23 SPT
8																
	1.90					SILTY CLAY (Alluvium) Grey with minor orange iron staining, moist, stiff, medium plasticity.	CL									6,5,7 N=12 SPT
9																
10	0.40														5/0 HB N>50	SPT

REMARKS No groundwater reported during drilling. See Additional Descriptive Coding sheet for abbreviations.

LOGGED BY  
J. Kleindienst



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# ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND  
SYMBOLS REFER FORM F:GEOT 017/3-2005

BOREHOLE No BH39

SHEET 2 of 2

REFERENCE No H9752

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Bertha St O'pass. Abutment B, Approximate Chainage 12895m, 9m left of control MC20. COORDINATES 28571.0 E; 146929.0 N

PROJECT No FG5404 SURFACE R.L. 10.40 DATE STARTED 11/10/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 11/10/05 DRILLER Drillsure

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD ( ) %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)				GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
								EH	VH	H	M	J	VL	EL	20	60		200	600	
10	0.40					<b>SANDSTONE</b>  Grey, medium to coarse grained, massive. Upper medium to high strength.	SW											Is(50)=1.25 MPa Is(50)=1.08 MPa Is(50)=1.21 MPa Is(50)=1.00 MPa	x o x o	
	-0.36			(25)		Orange ironstained, medium to coarse grained, becoming finer with depth, poorly cemented, extremely low strength.	HW									Clayey band.				
11																				
				66 (17)		Becoming grey, fine to medium grained, clayey in parts.  Very low strength, some diametral erosion of the core has occurred during drilling.										Clayey band. Clayey band. Clayey band.				
12							HW										Clayey band.			
13																	Clayey band.			
	-3.50			100													Clayey band.			
14						Borehole terminated at 13.9m														
15																				
16																				
17																				
18																				
19																				
20																				

REMARKS No groundwater reported during drilling. See Additional Descriptive Coding sheet for abbreviations.

LOGGED BY  
J. Kleindienst

Project: **Ipswich Motorway / Logan Motorway Interchange**  
Borehole No: **BH39**  
Start Depth: 10.00m  
Finish Depth: 13.90m  
Project No: FG5404  
H No: 9759

