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**Queensland
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Department of
Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No BH23

SHEET 1 of 2

REFERENCE No H9766

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Abutment B, Approximate Chainage 103.5m, 6m left of control MC81. COORDINATES 29650.7 E; 147190.7 N

PROJECT No FG5404 SURFACE R.L. 24.23 DATE STARTED 20/10/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 20/10/05 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
0	24.23					SILT (Topsoil) Grey. SAND Grey. Based on Drillers logs only.						
1	23.23					SANDSTONE Pale grey, minor orange iron staining, fine grained, friable, dry. Exhibits properties of medium dense Silty Sand.					5,7,13 N=20	SPT
2						Trace gravelly fragments up to 15mm size. Relict fabric visible in parts. Moist. Exhibits properties of very dense Clayey Sand.					30/120mm N>50	SPT
3	21.03					SILTSTONE / SILTY CLAYSTONE Pale grey, trace iron staining, sandy in parts, low plasticity, moist. Relict rock structure and fabric visible. Exhibits properties of medium dense Clayey Silt or Silty Clay in parts.					9,9,10 N=19	SPT
4												
5												
6	18.73					SANDSTONE Pale grey, trace yellow iron staining, fine-medium grained, moist. No structure visible. Exhibits properties of medium dense Clayey Sand.	XW				10,13,16 N=29	SPT
7											9,8,9 N=17	SPT
8												
9	15.83					MUDSTONE Grey - dark grey, orange-brown iron staining in parts, medium - high plasticity, moist. Relict structure visible in parts. Varies to Claystone in parts. Exhibits properties of a very stiff Clay.					3,7,8 N=15	SPT
10	14.23											

REMARKS No groundwater reported during drilling. Hole set up as groundwater monitoring point. See Additional Descriptive

Coding sheet for abbreviations.

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ENGINEERING BOREHOLE

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

BOREHOLE No BH23

SHEET 2 of 2

REFERENCE No H9766

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Abutment B, Approximate Chainage 103.5m, 6m left of control MC81. COORDINATES 29650.7 E; 147190.7 N

PROJECT No FG5404 SURFACE R.L. 24.23 DATE STARTED 20/10/05 DATUM Ipswich Motorway

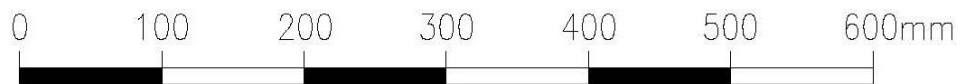
JOB No 148/17A/57 DATUM AHD DATE COMPLETED 20/10/05 DRILLER Drillsure

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	I	M	J	V	L				
10	14.23					SANDSTONE Drillers log indicated sandy material.											30/110mm N>50	SPT
11							XW											
12						Grey and dark grey, fine grained, moist. No structure visible. Exhibits properties of very dense Clayey Sand.											20,30/130mm N>50	SPT
13	11.23					Interbedded SANDSTONE and MUDSTONE Grey and dark grey, fine grained, minor carbonaceous and organic bands in parts, moist. Exhibits properties of very dense Clayey Sand with minor gravelly bands. Relict structure visible.											11,21,30/100 N>50	SPT
14							XW-HW											
15																	12,23,30/130mm N>50	SPT
16	8.63 8.03		(34)	100		MUDSTONE Dark grey to brown-black, laminated in parts. Slightly silty or sandy in parts. Few defects. Exhibits properties of hard Clay / Silty Clay	HW											
17						Borehole terminated at 16.2m												
18																		
19																		
20																		

REMARKS No groundwater reported during drilling. Hole set up as groundwater monitoring point. See Additional Descriptive Coding sheet for abbreviations.

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Project: **Ipswich Motorway / Logan Motorway Interchange**
Borehole No: **BH23**
Start Depth: 15.60m
Finish Depth: 16.20m
Project No: FG5404
H No: 9766



SCALE 1:5