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**Queensland  
Government**

Department of  
**Main Roads**

# ENGINEERING BOREHOLE

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

BOREHOLE No   AH23  

SHEET   1   of   1  

REFERENCE No   H9690  

PROJECT   IPSWICH MOTORWAY / LOGAN MOTORWAY INTERCHANGE GEOTECHNICAL INVESTIGATION  

LOCATION   Near Retaining Wall 11. About Chainage 12526m, about 8m left of control MC20.   COORDINATES   28938.6 E; 146954.0 N  

PROJECT No   FG5404   SURFACE R.L.   9.86   DATE STARTED   07/06/05   DATUM   Ipswich Motorway  

JOB No   148/17A/57   DATUM   AHD   DATE COMPLETED   07/06/02   DRILLER   Drillsure  

DEPTH (m)	R.L. (m)	AUGER	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)			GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								EH	EV	HM	J	VL	EL	20	60			
0	9.86																	
0.61						<b>SANDY SILT</b> (Topsoil) Pale grey.												
0.86						<b>CLAYEY SAND and GRAVEL</b> (Fill) Pale grey-grey with orange iron staining throughout, moist, medium dense. Fine grained with gravel up to 10mm size.											9,8,5 N=13	
1.06						<b>SILTY CLAY</b> (Alluvium) Brown-grey, minor orange iron staining throughout, moist, firm. Low plasticity. Becoming softer and sandier with depth.	CL											4,3,4 N=7
1.86						<b>SANDY CLAY</b> (Alluvium) Pale grey-yellow, fine grained, moist, organic odour, soft-firm. Minor bands of organic grey clay.	CI											1,2,4 N=6
2.36						<b>SILTY CLAY</b> (Alluvium) Dark brown - grey, trace iron staining in parts, intermediate plasticity, organic odour, moist. Stiff - very stiff.												RW, 1,3 N=4
3.16																		PI=19 MC=26.8, WD=1.88, DD=1.48, LL=46 LS=11 WPI=1788. PP(Su) = 123 KPa
3.66																		3,5,6 N=11
4.16						Becoming low plasticity.	CL- CI											2,5,7 N=12
4.66																		3,4,7 N=11
5.16																		3,5,6 N=11
5.66																		3,5,9 N=14
6.16						Low - intermediate plasticity, very stiff.												3,5,10 N=15
6.45						Borehole terminated at 6.45m												3,7,10 N=17
7.00																		
8.00																		
9.00																		
10.00																		

REMARKS   No standing groundwater encountered at time of drilling.  

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**JML**