FINAL 25/06/2015

Queensland Government

GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No **BH210**

Sheet 1 of 2

REFERENCE No **H21255**

PROJECT Ipswich Motorway Upgrade - Rocklea to Darra

LOCATION Oxley Creek Bridge

COORDINATES 498970.1 E; 6951111.3 N

PROJECT No FG6202 | SURFACE RL 3.39m | PLUNGE 90° | DATE STARTED 24/04/2015 | GRID DATUM MGA94 Z56

JOB No 201/416/003 | HEIGHT DATUM AHD | BEARING ° | DATE COMPLETED 24/04/2015 | DRILLER North Coast

DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( ) % CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH EH VH H M L VL EL	DEFECT SPACING EC VC C M W VW EW	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	2.69				Silty CLAY (Fill) Brown, moist, very stiff. Low plasticity, some gravel and rock fragments.		(CL)				
1				A	Silty CLAY with Sand (Alluvium) Brown, moist, soft. to firm Medium plasticity; fine sand; some tree roots.		CI			2, 1, 2 N=3 LL=37% PI= 17% MC=21.3% LS= 10% <75µm= 73%	SPT
2					Becoming firm Sandy Clay.					inferred GWT	
3	0.39			B						3, 3, 4 N=7	SPT
					Clayey SAND (Alluvium) Brown, moist, loose. Fine grained sand, medium plasticity clay.		(SC)				
4	-0.61			C	Silty SAND (Alluvium) Grey, moist, loose to medium dense. Fine grained sand,.		(SM)			2, 4, 5 N=9	SPT
5				D						3, 5, 5 N=10	SPT
6	-3.31										
7				E	Silty CLAY (Alluvium) soft to firm Dark grey, moist, ~~very soft.~~ High plasticity, organic material including wooden fragments.		(OH)			hw, hw, hw N<1	SPT
8				F	Becoming Sandy Clay.					1, hw, hw N<1	SPT
9	-6.11				SILTSTONE (Tod) XW: Recovered as grey brown,		XW				

Continued on next sheet

REMARKS: Tod - Darra formation.

LOGGED BY	REVIEWED BY
MS	SF

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BOREHOLE No **BH210**

Sheet 2 of 2

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LOCATION Oxley Creek Bridge

COORDINATES 498970.1 E; 6951111.3 N

PROJECT No FG6202 | SURFACE RL 3.39m | PLUNGE 90° | DATE STARTED 24/04/2015 | GRID DATUM MGA94 Z56

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DEPTH (m)	R.L. (m)	RQD ( ) % / CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USCS WEATHERING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
	-6.81		G	moist, very stiff to hard Silty Clay. Medium plasticity.	XW	16, 57/50mm hb	SPT
		(63)		SILTSTONE (Tod) HW: Grey brown, fine grained, thinly laminated, very low to low strength.	HW	10.27m: J, (40°): Pl, Sm, OP, Cly Ct (<5mm) 10.40m: J, (70-90°): Pl-Un, Sm, Tl, Cly Ct (<1mm)	
	-7.56					Is(50)=0.19 MPa	D (10.80m)
11						Is(50)=0.19 MPa	A (10.85m)
		100 (87)		SILTSTONE (Tod) MW: Grey dark grey brown, fine grained, thinly laminated, low to medium strength. Defects: Joint at 11.94m (45°): Pl/Sm, Tl, Cly Vr Joint at 12.45m (40°): Pl/Sm, Tl, Cn Joint at 12.80m (80-90°): Un/Ro, Tl, Cn	MW	Is(50)=0.35 MPa Is(50)=0.52 MPa	D (11.35m) A (11.40m)
12						12.15m-12.30m: Fe stained Siltstone.	
						Is(50)=0.66 MPa Is(50)=0.42 MPa	D (12.54m) A (12.59m)
13		100 (80)				Is(50)=0.52 MPa Is(50)=0.36 MPa	D (13.13m) A (13.17m)
						Is(50)=0.28 MPa Is(50)=0.26 MPa UCS=2.49 MPa	A (13.56m) D (13.60m) (13.75m)
	-10.56						
14				SILTSTONE (Tod) HW: Dark grey brown, fine grained, thinly laminated, very low strength.	HW		
		100 (25)		Defects: LP (0-5°) - 2/m: Pl, Sm, Tl, Cly Vr Joints (40°) - 3/m: Pl, Sm, Tl, Cly Vr	XW	14.70m-15.60m: Siltstone (XW) recovered as dark grey brown, moist, stiff-hard Silty Clay. High plasticity.	
15							
					HW		
16	-12.81	87	CORE LOSS	Borehole completed at 16.20m			
17							
18							
19							

REMARKS: Tod - Darra formation.

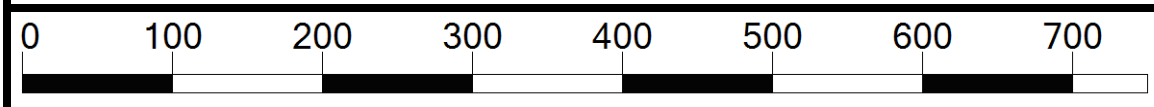
LOGGED BY	REVIEWED BY
MS	SF

TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

CORE PHOTO LOG
F: GEOT043/3
DEPARTMENT OF TRANSPORT AND MAIN ROADS
Geotechnical Section

Queensland Government

Project Name	**Ipswich Motorway Upgrade – Rocklea to Darra**		
Project No.	FG6202	Date Completed	24/04/2015
Borehole No.	BH210	Reference Number	H12155
Location	37093.8 E; 151980.7 N	Start Depth (m)	10.2
Submitted By	DP	Finish Depth (m)	16.2
Remarks	-		



SCALE (mm)