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ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No BH105
 SHEET 1 of 2
 REFERENCE No H10909

PROJECT Ipswich Motorway Upgrade - Rocklea to Darra
 LOCATION Service road to Boundary Road COORDINATES 499288.3 E; 6951195.1 N
 PROJECT No FG5779 SURFACE R.L. 16.93m PLUNGE -90° DATE STARTED 25/11/10 GRID DATUM GDA94
 JOB No 140/U16/902 HEIGHT DATUM AHD BEARING DATE COMPLETED 25/11/10 DRILLER R&D Drilling Pty Ltd

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				
0	16.93					ASPHALT / ROAD BASE and GRAVEL (Fill)									Non destructive drilling up to 1.5m depth (Based on Drillers logs only)		
1	15.43				A	BASALT FINE GRAINED INTRUSIVE TO BASIC EXTRUSIVE IGNEOUS ROCK XW: Generally exhibits engineering properties of mottled yellow-brown, moist, stiff to mainly hard clayey silt.									12,22,30/125mm N>50	SPT	
2					B	Contains thin bands of stiff clayey silt below @ 2.5m depth.	XW								4,7,8 N=15	SPT	
3					C										10,14,20 N=34	SPT	
4	12.43				D	HW: Mottled yellow-brown, moist, hard clayey silt. Red iron staining throughout.	HW								16,29,30/120mm N>50	SPT	
5					E										25,30/90mm N>50	SPT	
6	10.93				(25)	MW: Mottled yellow brown and dark, flow banded, fine grained, fractured and altered, mainly low strength. Contains medium to high strength cobble sized rock fragments up to 100mm throughout. Defects: - Drilling induced bedding partings @ 5-10° (4/m). - Joints @ 15° and 35° (1-2/m). Defects are close to medium spaced, irregular & curved, rough, open with clay infill and iron stained. Highly fractured zone with silty clay seams below 9.5-15.9m depth.	MW								DD = 1.64/m ² ; WD = 2.02/m ² ; MC = 22.6%; UCS=539KPa Is(50) = 0.23MPa Is(50) = 0.17MPa	x o	
7					100										Is(50) = 0.19MPa Is(50) = 0.27MPa	x o	
8					(17)										Is(50) = 0.08MPa Is(50) = 0.33MPa	x o	
9					100										Is(50) = 0.17MPa Is(50) = 0.59MPa Is(50) = 0.12MPa Is(50) = 0.23MPa	x o x o	
10					(8)										Is(50) = 0.18MPa Is(50) = 0.27MPa	x o	

REMARKS SILTSTONE: FINE GRAINED SEDIMENTARY ROCK COMPOSED MAINLY OF SILT SIZED PARTICLES.

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FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No BH105
 SHEET 2 of 2
 REFERENCE No H10909

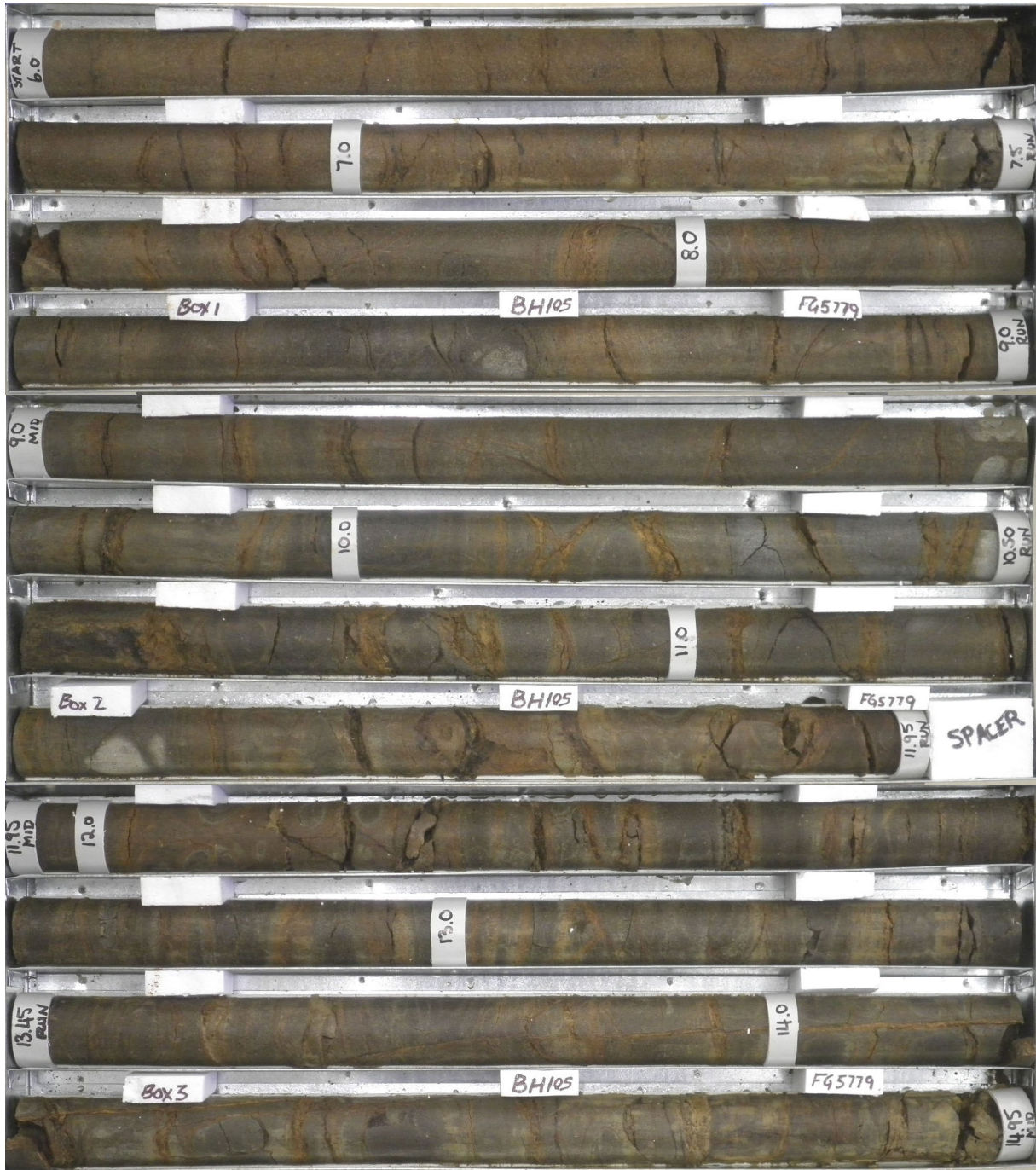
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								EH	VH	H	M	J	VL				
10	6.93					BASALT MW: (Cont'd)									Joint @ 30° FeSt		
			100												Silty clay (XW)		
															Silty clay (XW)		
11																	
			100												Clay seams @ 10° app. 3mm thick		
12																	
13																	
			100														
14															Joint @ 20° CLy		
															Fractured and iron stained.		
15						Gradually grading into low strength siltstone with depth.											
	1.03																
16						SILTSTONE MW: Pale grey, massive, fine grained, low strength.									Mudstone interbeds		
	0.48		100														
						Borehole terminated at 16.45m											
17																	
18																	
19																	
20																	

REMARKS SILTSTONE: FINE GRAINED SEDIMENTARY ROCK COMPOSED MAINLY OF SILT SIZED PARTICLES.

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Project: **Ipswich Motorway Upgrade - Rocklea to Darra**
Borehole No: **BH 105**
Start Depth: 6.0m
Finish Depth: 16.45m
Project No: FG5779
H No: H10909



SCALE 1:5

F:GEO043/1

Project: **Ipswich Motorway Upgrade - Rocklea to Darra**
Borehole No: **BH 105**
Start Depth: 6.0m
Finish Depth: 16.45m
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SCALE 1:5

F:GEOT043/1