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## ENGINEERING BOREHOLE LOG

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

BOREHOLE No \_\_BH\_C77\_\_

SHEET \_\_1\_\_ of \_\_2\_\_

REFERENCE No \_\_H11152\_\_\_

JOB No 232  SNINGH HSWM  O 62.65  O 62.65  D 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	32/10A/2 RQD RQD ( ) %	MATERIAL DESCRIPTION  TOPSOIL Grey, dry. SILTSTONE (XW): Generally exhibits engineering properties of a yellow/brown/grey, dry, low plasticity, gravelly silt. Gravel fraction is subangular to angular	LOGY	DATE COM	(mm) 2000 2000 2000		DRILLER _Drillsure_Pty  ADDITIONAL DATA  AND  TEST RESULTS  15,30,30/100 N>50  30/40 N>50	SAMPLES
(m) DEPTH (m) AVER BORING OF STATE OF S	WASH BORNING CORE DRILLING SAMPLE	TOPSOIL Grey, dry.  SILTSTONE (XW): Generally exhibits engineering properties of a yellow/brown/grey, dry, low plasticity, gravelly silt.  Gravel fraction is subangular to angular sizing up to ~10mm.  SILTSTONE (HW): Brown/grey, fine grained, subtly foliated,	HEIT NXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	STRENGTH WEATHERING  STRENGTH  WEATHERING  STRENGTH	SPACING (mm) 0000	GRAPHIC LOG	AND TEST RESULTS  15,30,30/100 N>50  30/40 N>50  -DD2.28t/m³, WD2.48t/m³;	SP1
-1	] =8=	SILTSTONE (XW): Generally exhibits engineering properties of a yellow/brown/grey, dry, low plasticity, gravelly silt.  Gravel fraction is subangular to angular sizing up to ~10mm.  SILTSTONE (HW): Brown/grey, fine grained, subtly foliated,	X X X X X X X X X X X X X X X X X X X	N			N>50 30/40 N>50 ••••••••••••••••••••••••••••••••••••	
60.05	(20)	Brown/grey, fine grained, subtly foliated,	X X			-+	- DD-=2.28 <del>Vm<sup>3</sup>, WD=2.40</del> Vm <sup>3</sup> ,	
5	100 (8)	Defects: -Foliation parting at 50° (~5/m) -Joint at 50°-60° (2-3/m) -Joint at 80° (<1/m)  Defect spacing is close to medium. Defect surfaces are planar, tight, smooth, thinly clay infilled, iron stained.	T	<b>V</b>		HFP, FP, FP, Classification J, 3	30°, PI, O, Cinf, 3mm  , 40°, PI, T, Cinf , 40°, PI, T, Cinf , 40°, PI, O, Cinf, 3mm  by Seam, 40° 50°, PI, T, S, FeSt, Cinf 50°, PI, T, S, FeSt	x o
-6 -56.29 -7 -8 -8	100 (12) 100 (31)	SANDSTONE (MW): Grey/brown, bedded, medium to high strength, indurated and/or slightly metamorphosed. Prominent siltstone interbeds. Bedding dips at 40°-50°.  Defects: -Clayey broken zones up to 250mmQuartz veins up to 200mmBedding parting at 40°-50° (~5/m) -Joint at 70° (1/m)  Defect spacing is close to medium. Defect surfaces are planar, tight, smooth, clay infilled, iron stained.	X X X X X X X X X X X X X X X X X X X	v		— J, 7 — BP, — BP, — J, 5 — J, 6 — J, 6 — J, 6	DS	×



# ENGINEERING BOREHOLE LOG

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

		Upgrade (Coorcy to Curra) Section C		
		d Underpass		COORDINATES 470408.1 E; 7097981.8 N
		SURFACE R.L. 62.80m PLUNGE		
OB No	232/10A/2	_ HEIGHT DATUM _AHD BEARING	DATE COMPLETED 21/0	08/11 DRILLER <u>Drillsure Pty Ltd</u>
R.L. (m)	AUGER CASING WASH BORING WASH BORING CORE DAILLING SAMPLE	MATERIAL DESCRIPTION	LTHOLOGY USC	ADDITIONAL DATA  ADD  TEST RESULTS  ADD  TEST RESULTS
10 52.80	1111	SANDSTONE (MW): Cont'd		
11	100 (11)			Clay Seam, 30° BP, PI, O, Cinf, 10mm Broken Quartz band Clay Seam
12	(25)		MW	BP, 40*, Pl, O, S, FeSt s(50) = 1.63MPa x
13	100 (48)			— BP, 50°, PI, T, S, FeSt  — BP, 50°, PI, T, S, FeSt Is(50) = 0.07MPa
14 48.80	100 (66)	SANDSTONE (SW): Grey, fine grained, bedded, high to very high strength, indurated and/or slightly metamorphosed. Prominent siltstone interbeds. Bedding dips at 40°. Defects: -Quartz veins up to 40mmBedding parting at 40° (3-4/m) -Joint at 60° (1/m)	sw	— BP, 40°, PI, T, CInf  ———————————————————————————————————
46.96	100	Defect spacing is medium to wide. Defect surfaces are planar, tight, smooth, iron stained.  Borehole terminated at 15.84m		DD = 2.58t/m³; MC = 1.4%; —J, 50°, PI, O, SR, FeSt UCS=18.4MPa —BP, 40°, PI, O, S, FeSt BP, 40°, PI, O, S, FeSts(50) = 2.06MPa x Is(50) = 4.47MPa o
13 48.80 15 46.96 16 17		Borenole terminated at 15.04m		
REMARKS				LOGGED BY



	CORE PHO	TO LOG - BH C77	
Project Name:	BRUCE HIGHWAY	Y UPGRADE - SECTION C	
Project No.:	FG5799	Date:	08/09/2011
Details:	Keefton Rd	Start Depth (m):	2.75
Reference No.:	H11152	Finish Depth (m):	15.84
	\$ (S)		Secret
	J. Taranta	A CONTRACT OF THE PARTY OF THE	

DEPARTMENT OF TRANSPORT & MAIN ROADS Geotechnical Branch 35 Butterfield Street, HERSTON Qld 4006 Phone 07 3115 3035 Fax 07 3115 3011



## **CORE PHOTO LOG - BH C77**

Project Name:	BRUCE HIGHWAY	UPGRADE - SECTION C	
Project No.:	FG5799	Date:	08/09/2011
Details:	Keefton Rd	Start Depth (m):	2.75
Reference No.:	H11152	Finish Depth (m):	15.84