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**Queensland
Government**

**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **BH08**

Sheet 1 of 3

REFERENCE No **H12906**

PROJECT	Boyne River Bridge Repalcement		
LOCATION	Pier 3, RHS	COORDINATES 323449.5 E; 7159896.3 N	
PROJECT No	FG6482	SURFACE RL 115.54m	PLUNGE 90°
			DATE STARTED 09/07/2017
			GRID DATUM MGA Z56
JOB No	249/435/375550	HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 10/07/2017
			DRILLER NorthCoast Drilling

DEPTH (m)	R.L. (m)	AUGER CASING WASHBORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
													EH
1					A	Silty Gravelly SAND (Alluvium) Dark grey to grey, moist, loose. Fine to medium grained sand. Fine grained gravel, sub angular to angular.	(SM)					2, 3, 2 N=5	SPT
2					B	2.00m: Becoming medium dense.	(SM)					2, 6, 6 N=12	SPT
3					C	3.00m: Becoming medium to coarse grained Sand and fine to medium grained gravel, sub angular.	(SM)					7, 6, 8 N=14	SPT
4					D		(SM)					6, 7, 8 N=15	SPT
5	110.54				E	Silty Sandy GRAVEL (Alluvium) Dark grey, moist, medium dense. Medium to coarse grained sand. Medium to coarse grained gravel, rounded to sub angular.	(GM)					7, 7, 6 N=13	SPT
6					F		(GM)					5, 5, 4 N=9	SPT
7	108.54				G	Silty Gravelly SAND (Alluvium) Dark grey, moist, medium dense. Medium to coarse grained sand. Fine to medium grained gravel, rounded to angular.	(SM)					9, 9, 8 N=17	SPT
8					H		(SM)					14, 11, 14 N=25	SPT
9					I	9.00m: Becoming dense. Fine to coarse grained gravel, rounded to angular.	(SM)					6, 14, 17 N=31	SPT
	105.54												

Continued on next sheet

REMARKS: Je1 - Evergreen Formation.

LOGGED BY	REVIEWED BY
S. Louei	S. Foley



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BOREHOLE No **BH08**

Sheet 2 of 3

REFERENCE No **H12906**

PROJECT	Boyne River Bridge Repalcement		
LOCATION	Pier 3, RHS	COORDINATES 323449.5 E; 7159896.3 N	
PROJECT No	FG6482	SURFACE RL 115.54m	PLUNGE 90°
			DATE STARTED 09/07/2017
			GRID DATUM MGA Z56
JOB No	249/435/375550	HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 10/07/2017
			DRILLER NorthCoast Drilling

DEPTH (m)	R.L. (m)	FAUGER CASING WASHBORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH		DEFECT SPACING		ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
									EH	VH	H	M		
11					J	Silty Gravelly SAND (Alluvium) Cont'd.							11, 10, 12 N=22	SPT
					K	11.00m: Becoming very dense.	(SM)						30/145mm hb	SPT
12					L	12.00m: Becoming dense.							22, 24, 11 N=35	SPT
13	102.54				M	Clayey SAND with Gravel (Residual) Pale grey mottled pale brown, moist, very dense. Fine to medium grained sand. Fine to medium grained gravel, angular.	(SC)						24, 29, 30/145mm hb	SPT
14	101.54				N	SANDSTONE (Je1) XW: Recovered as Clayey SAND with Gravel. Pale grey, moist, very dense. Fine to medium grained sand. Fine grained gravel, angular.							30/135mm hb	SPT
15					O		XW						30/80mm hb	SPT
16	99.44				P								12/20mm hb	SPT
			(0)			SANDSTONE (Je1) HW: Pale grey, fine grained, thinly bedded, mainly very low to low strength.		HW					16.10m-16.38m: HFZ	
			100										16.62m-16.77m: HFZ	
			(7)			SILTSTONE (Je1) HW: Pale grey mottled brown in parts, fine grained, laminated, mainly low strength. - Js: 50° (<1/m); Un/Sm, TI-CD, Cly Vr		HW					16.97m-17.05m: HFZ	
													17.23m-17.50m: HFZ	Is(50)=0.12 MPa Is(50)=0.08 MPa
18	97.56					SANDSTONE (Je1) MW: Pale grey mottled orange brown in parts, fine grained, thinly bedded, low to medium strength. - BP: 10° to 25° (2-3/m); Pl/Ro, TI, Fe St, Cly Vr		MW					18.41m-18.89m: HFZ	Is(50)=0.06 MPa Is(50)=0.30 MPa
			100					HW					18.80m-18.85m: BZ, DI	
			(26)										18.95m-19.00m: BZ	
													19.10m-19.15m: BZ, HW	Is(50)=0.08 MPa
19								MW						A (19.30m)
														Is(50)=0.09 MPa
	95.54							HW					19.77m-19.86m: BZ	D (19.71m)
													19.85m-20.05m: HFZ, HW	

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REMARKS: Je1 - Evergreen Formation.

LOGGED BY	REVIEWED BY
S. Louei	S. Foley



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BOREHOLE No **BH08**

Sheet 3 of 3

REFERENCE No **H12906**

PROJECT	Boyne River Bridge Repalcement				
LOCATION	Pier 3, RHS			COORDINATES 323449.5 E; 7159896.3 N	
PROJECT No	FG6482	SURFACE RL	115.54m	PLUNGE	90°
				DATE STARTED	09/07/2017
				GRID DATUM	MGA Z56
JOB No	249/435/375550	HEIGHT DATUM	AHD	BEARING	°
				DATE COMPLETED	10/07/2017
				DRILLER	NorthCoast Drilling

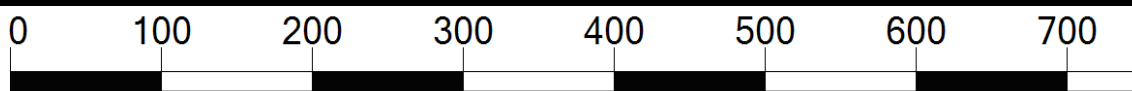
DEPTH (m)	R.L. (m)	FAUGER CASING WASHBORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH										DEFECT SPACING										ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
									INTACT STRENGTH										DEFECT SPACING												
									EH	VH	H	M	L	J	VI	EU	EC	V	C	M	W	VW	VV	EW							
21	86.79		100 (0)			SANDSTONE (Je1) MW: Cont'd. - Js: 60° to 80° (<1/m); Pl/Ro, Tl, Fe St, Cly Vr - Js: 80° to 90° (~1/m); Un/Ro, Tl, Cly Vr		MW	[Strength Data]										[Defect Spacing Data]										20.12m-20.22m: BZ, HW 20.88m-21.00m: HFZ, HW 21.26m-21.35m: BZ, HW 21.57m-21.82m: HFZ, HW 21.93m-22.10m: BZ, HW 22.25m-22.34m: BZ, HW 22.56m-22.63m: BZ, HW 22.67m-22.74m: BZ, HW 22.79m-22.85m: BZ, HW 23.00m-23.14m: BZ, HW 23.50m-23.60m: BZ, HW 24.38m-24.42m: Cly seam 25.14m-25.18m: Cly seam, 50°	Is(50)=0.08 MPa Is(50)=0.12 MPa Is(50)=0.29 MPa Is(50)=0.49 MPa Is(50)=0.32 MPa Is(50)=0.45 MPa Is(50)=0.38 MPa Is(50)=0.08 MPa Is(50)=0.30 MPa Is(50)=0.31 MPa UCS=4.13 MPa Is(50)=0.35 MPa Is(50)=0.19 MPa	A (21.15m) D (21.20m) D (23.19m) A (23.22m) D (24.94m) A (24.96m) D (26.14m) A (26.17m) A (27.00m) D (27.07m) (27.44m) A (28.52m) D (28.55m)
								HW																							
								MW																							
								HW																							
								MW																							
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								MW																							
								HW																							
29	86.79		100 (39)			Borehole completed at 28.75m		MW																							
								HW																							

REMARKS: Je1 - Evergreen Formation.	LOGGED BY	REVIEWED BY
	S. Louei	S. Foley

CORE PHOTO LOG
 DEPARTMENT OF TRANSPORT AND MAIN ROADS
 GEOTECHNICAL SECTION



Project Name	Boyne River Bridge Replacement		
Project No.	FG6482	Date	10/07/2017
Borehole No.	BH08	Reference No.	H12906
Location	Pier 3, RHS	Start Depth (m)	16.10
Submitted By	S. Louei	Finish Depth (m)	28.75
Remarks			

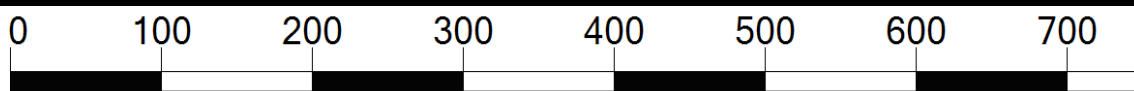


SCALE (mm)

CORE PHOTO LOG
 DEPARTMENT OF TRANSPORT AND MAIN ROADS
 GEOTECHNICAL SECTION



Project Name	Boyne River Bridge Replacement		
Project No.	FG6482	Date	10/07/2017
Borehole No.	BH08	Reference No.	H12906
Location	Pier 3, RHS	Start Depth (m)	16.10
Submitted By	S. Louei	Finish Depth (m)	28.75
Remarks			



SCALE (mm)