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GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014 FINAL 02/11/2017

BH11

Sheet 1 of 3

BOREHOLE No

REFERENCE No

H12970

PROJE	СТ	E	Boyne River Bridge Repalcement											
LOCAT	ION	P	lier	5, LHS			COORDINATES 323433.1 E; 7159857.8 N							57.8 N
PROJECT No FG6482 SUI		SURFACE RL 114.05m	plunge 90°		DATE STARTED 01/09/2017		GRID DATUM MGA Z56							
JOB No 249/435/375550		555	0 HEIGHT DATUM AHD	BEARING		DATE COMPLETED 02/09/2017		7 DRILLER NorthCoast I		t Drilling				
DEPTH (m)	R.L. (m)	AUGER	WASH BORING CORE DRILLING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	ПТНОГОСУ	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING		ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
	140.25				A	SAND (Alluvium) Orange brown, medium to coarse grained, dry, loose. Trace fine to coarse grained gravel and cobbles. From 2.5m: Some sandy clay layers to 3m.		(sw)					2, 5, 5 N=10 2, 2, 1 N=3 4, 8, 9 N=17	SPT SPT
- 4 - 4 	<u>110.25</u>				D	Sandy GRAVEL with Silt (Alluvium) Grey and brown grey, moist, medium dense. Fine to coarse grained gravel, medium to coarse grained sand, trace cobbles.				-			8, 9, 8 N=17	SPT
- 5 - 5 					F			(GP- GM)		- - - - - - - - - - - - - - -			9, 9, 8 N=17 7, 6, 6 - N=12	SPT
	<u>107.35</u>	5			G	Gravelly SAND with Silt (Alluvium) Grey and brown grey, moist, medium dense. Medium to coarse grained sand, fine grained gravel.		(SP- SM)		- - - - - - - - - - - - - - - - - - -			3, 9, 9 N=18	SPT
-	<u>105.35</u> 104.95			(0)		8.0m: Becoming very dense. Clayey SAND (Residual) Light grey, some yellow brown mottling, very dense, fine to coarse		(SW)	1 1	-			6, 30/40 30/90	SPT
- 	104.05	5		90 (0)	CORE LOSS	grained sand. SANDSTONE (Je1) XW: Pale grey and orange brown, medium to coarse grained Continued on next sheet	· · · · · · · · · · · · · · · · · · ·	xw xw HW	EL- VL	vc				
RE	EMAR	KS:	J	le1 - E	ver	green Formation.						LOGGED BY	REVIE	WED BY
												M. Hayes	S.	Foley
						TMR G	FOTEC	HNICAL B	OREHOLE LOG - CREATED V	/ITH HOLEBASE SI			1	

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GEOTECHNICAL BOREHOLE LOG

FINAL 02/11/2017

BH11

Sheet 2 of 3

BOREHOLE No

	C-	GOV	ernment		SY		GEOTECHNICAL TE REFER FORM F:GE			REFERENCE No	H:	12970
PROJECT	Boyne	River B	ridge Repalcement									
LOCATION	Pier 5,	LHS								COORDINATES 323433.1	E; 71598	57.8 N
PROJECT No	FG64	82	SURFACE F	L 114.05m	PLU	JNGE 9	0°	DATE STAI	RTED 01/09/2017	GRID DATUM	MGA Z56	
JOB No	249/4	35/375	550 HEIGHT DATUM	M AHD	BEA	RING °		DATE COMPL	ETED 02/09/2017	7 DRILLER	NorthCoas	st Drilling
DEPTH (m) (m) (m) MIGHU	CASING WASH BORING CORE DRILLING	RQD ()% CORE REC %	MATERIAL DE	SCRIPTION	ГІТНОГОGY	USCS WEATHERING	INTACT STRENGTH யூรூரூதுதிய			ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
103.20 11 103.20 11 101.05 12 13 101.05 14 14 14 14 15 16 16 96.10 18 96.10		100 (100) (94) 100 (81) 100 (86)	SANDSTONE (Je1) XW: Cont'd. With fin clasts, extremely low strength. Defects ow pervasive weatherin J: 45°, PI/Sm, FD, C J: 65° Un/Sm, FD, C J: 65° Un/Sm, FD, C SANDSTONE (Je1) HW: Yellow brown a medium to coarse g to low strength, weats 45°. - J 10°-20° (1-2/m), F Cly Vr SANDSTONE (Je1) MW: Pale grey and medium grained, m medium to mainly H Bedding dips at 30°- -Js: 30°-45° (3-5/m), St -Js: 10°-20° (1-2/m), 14.5m to 15.0m: Be SANDSTONE (Je1) HW: Yellow brown a medium to coarse g to low strength. SANDSTONE (Je1) SW: Yellow brown, f coarse grained, medium st -Js: 20°-30° (1-3/m), or Cn	w to very low verprinted by ng. ly ly and pale grey, rained, very low ak bedding at Pl/Sm, TI, Fe St, yellow brown, edium bedded, nigh strength. 40°. , Pl/Un-Ro, TI, Fe St dding 80° and grey, rained, very low medium to flum to thickly rength.		HW HW XW HW SW MW HW SW MW MW SW			10.25m-10.85m: XV hard sandy clay, Yell fine grained sand. □ 11.20m-11.25m: XV sand zone □ 12.30m-12.34m: XV □ 12.30m-12.34m: XV □ 12.30m-14.20m: HV □ 13.90m-14.20m: HV □ 13.90m-14.20m: HV □ 13.95m-13.97m: XV □ 14.50m-14.55m: XV □ 15.33m-15.35m: XV □ 15.68m-15.70m: HV □ 15.68m-15.70m: HV □ 17.20m-17.22m: XV □ 19.20m-19.40m: XV	v Somm clayey	50)=0.47 MPa 50)=0.40 MPa 50)=0.40 MPa 50)=1.10 MPa 50)=0.54 MPa 50)=0.54 MPa 50)=0.50 MPa 50)=0.44 MPa 50)=0.44 MPa 50)=2.10 MPa 50)=2.10 MPa 50)=1.40 MPa 50)=1.40 MPa 50)=0.25 MPa 50)=0.25 MPa 50)=0.270 MPa 50)=2.70 MPa	D (11.65m) A (11.70m) A (11.70m) A (12.59m) A (12.66m) D (13.43m) (13.66m) D (13.43m) (13.66m) D (13.82m) A (13.93m) A (13.93m) A (13.93m) A (13.93m) A (13.93m) A (15.14m) A (15.14m) A (15.14m) A (16.30m) D (16.22m) A (16.30m) D (17.12m) A (17.19m) A (17.19m)
94.05					::	SW	м	м			50)=0.73 MPa	D (19.63m)
			Continued on	next sheet					1 13:35m-20.00m: HV	······		L
REMARK	(S: Je	1 - Eve	ergreen Formation							LOGGED BY	REVIE	WED BY
										M. Hayes	S.	Foley
										· ·	1	•

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TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

									FINAL 02	2/11/2017
1. 20	A C			GE	OTECHN	IICAL		BOREHOLE No	В	H11
	🔊 Qı	vernment		BC	REHOLE	LOG		Sheet	3 of 3	
13	🕎 Go	vernment			GEOTECHNICAL TI REFER FORM F:GE			REFERENCE No	H1	2970
PROJECT		r Bridge Repalcement								
		i bridge nepalcement						COORDINATES 323433.1	E: 715095	7 9 N
	LOCATION Pier 5, LHS PROJECT No FG6482 SURFACE RL 114.05m PL					DATE OTA				7.0 N
PROJECT No	FG6482			PLUNGE			RTED 01/09/2017			- Duillin -
JOB No	249/435/37	75550 HEIGHT DATUM	AHU BI	EARING		DATE COMPL	ETED 02/09/2017	DRILLER	NorthCoast	Drilling
(m) HLH (m) (m)	RQD SNILC SNIC SNILC SNIC SNIC SNIC SNIC SNIC SNIC SNIC SNI	비 MATERIAL DES	CRIPTION	USCS USCS WEATHERING	INTACT STRENGTH ਜ਼ੑੑੑੑੑ _ੑ ਸ਼ੑੑਙੑੑੑੑੑੑੑੑੑੑੑੑਫ਼ੵੑਗ਼ੑ			ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
21 93.80 93.45 - 21 - 22 - 22 - 23 90.15 - 24 - 24 - 25 - 26 - 27 - 28	100 (93)	SANDSTONE (Je1) \$W: Cont'd. SANDSTONE (Je1) HW: Yellow brown, n coarse grained, very Js: 5°-20° (10-20/m) \$t SANDSTONE (Je1) SW: Light grey, medi grained, medium bec medium to high stree -J: 30° (2-3/m), PI/Rc -BP: 30°-45° (3/m), P Borehole complete	low strength. , PI/Sm, TI, Fe um to coarse dded at 45°, ngth. , TI, Cn I/Sm, TI, Cn	SW HW SW			⇒ 20.95m-20.98m: HW	v Is(5 5 5 5 5	50)=1.80 MPa 50)=1.30 MPa 50)=0.99 MPa 50)=0.88 MPa 50)=0.13 MPa 50)=0.13 MPa 50)=0.82 MPa	D (20.84m) A (20.89m) D (22.20m) A (22.28m) D (22.28m) A (22.28m) D (23.10m) A (23.16m) A (23.16m) A (23.81m) A (23.89m) A (23.89m) A (23.89m) C (23.81m) C (23.81m)
- 29										
DENAAF		Wargraan Earmation							PPPPPPPPPPPPP	
KEIVIAH	(V2: Jel-F	vergreen Formation.						LOGGED BY		WED BY
			TMR GEO	TECHNICAI P	OREHOLE LOG - CREATED	WITH HOLFRASE SI		M. Hayes	S. F	-oley

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CORE PHOTO LOG DEPARTMENT OF TRANSPORT AND MAIN ROADS GEOTECHNICAL SECTION



Project Name	Boyne River Bridge Replacement		
Project No.	FG6482	Date	02/09/17
Borehole No.	BH11	Reference No.	H12970
Location	Pier 5, LHS	Start Depth (m)	9.10
Submitted By	M. de Gee	Finish Depth (m)	23.90
Remarks			
0 100	200 300 400 SCALE (mm)	500 600	700

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CORE PHOTO LOG DEPARTMENT OF TRANSPORT AND MAIN ROADS GEOTECHNICAL SECTION



Project Name	Boyne River Bridge Re	eplacement								
Project No.	FG6482		Date	02/09/17						
Borehole No.	BH11		Reference No.	H12970						
Location	Pier 5, LHS		Start Depth (m)	9.10						
Submitted By	M. de Gee		Finish Depth (m)	23.90						
Remarks				1						
		400		TOO						
	SCALE (mm)									

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