Project: Marine Geotechnical Investigation
Location: Harbour Grace, NL
Client: Public Works and Government Services
Drilling Supervisor: K. Williams

Log of Geotech Borehole: BH #5

Project No: 453
Date: October 23, 2005

Depth below LNT (ft / m)	Symbol	Geologic Description	Elevation (m)	Sample Type	Sample No.	"N" Value	Recovery (%)	RQD (%)
0 / 0		0 m LNT	0					
		Harbour Bottom (0.56 m)	-0.56					
		Sank 0.28 m into soft sediment	-0.84					
3 / 1		SPT: 3/7/10/25 Sand and Gravel	-1.45	SS	1	17	2	
		Broken Rock	-2.13					
8 / 2		SPT: 50 for 1" (Refusal) Gravel SS2, "N" Value 50, Recovery 50%		SS	2	50	50	
13 / 4		Cobbles and Boulders / Broken Rock	-5.36					
18 / 5		SPT: 50/50 for 2" (Refusal) Gravel	-5.56	SS	3	50	12.5	
		Cobbles and Boulders		RC			94	0

Standard Penetration Test "N" Value per 300 mm: 20 40 60 80

Fracflow Consultants Inc.
154 Major's Path
St. John's, NL A1A 5A1
Phone: (709) 739-7270
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Drilling Method: NW/NQ Casing/Coring
Driller: Barker's Construction Ltd.
Datum: 0 m LNT
Sheet: 1 of 2

Project: Marine Geotechnical Investigation
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Depth below LNT (m)	Symbol	Geologic Description	Elevation (m)	Sample Type	Sample No.	"N" Value	Recovery (%)	RQD (%)
20		Bedrock: Siltstone		RC			100	44
22				RC			44	0
23		SPT: 50 for 1" (Refusal) SS4, "N" Value 50, Recovery 0%	-6.95	RC			98	43
25		Bedrock: Siltstone		RC			92	48
28		End of Borehole	-8.55					

Standard Penetration Test "N" Value per 300 mm: 20 40 60 80

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Driller: Barker's Construction Ltd.
Datum: 0 m LNT
Sheet: 2 of 2

Project: Marine Geotechnical Investigation
Location: Harbour Grace, NL
Client: Public Works and Government Services
Drilling Supervisor: K. Williams

Log of Geotech Borehole: BH #6

Project No: 453
Date: October 25, 2005

Depth below LNT (ft / m)	Symbol	Geologic Description	Elevation (m)	Sample Type	Sample No.	"N" Value	Recovery (%)	RQD (%)
0 / 0		0 m LNT	0					
		Harbour Bottom (0.69 m)	-0.69					
		Sank 0.29 m into soft sediment	-0.98					
3 / 1		SPT: 1/5/10/27 CFEM: Sand and Gravel, trace Silt and/or Clay	-1.59	SS	1	15	5	
8 / 2		Cobbles and Boulders / Broken Rock	-2.56					
9		SPT: 50 for 3.5" (Refusal) SS2, "N" Value 50, Recovery 0%		SS	2	50	0	
13 / 4		Cobbles and Boulders / Broken Rock	-4.03					
16 / 5		SPT: 37/48/50 for 2" (Refusal) Sand and Gravel	-4.39	SS	3	98	50	
		Cobbles and Boulders	-5.43					
18		SPT: 45/50/50 for 3" (Refusal) Gravel	-5.81	SS	4	100	0	

Standard Penetration Test "N" Value per 300 mm: 20 40 60 80

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Drilling Method: NW/NQ Casing/Coring
Driller: Barker's Construction Ltd.
Datum: 0 m LNT
Sheet: 1 of 2

Project: Marine Geotechnical Investigation
Location: Harbour Grace, NL
Client: Public Works and Government Services
Drilling Supervisor: K. Williams

Log of Geotech Borehole: BH #6

Project No: 453
Date: October 25, 2005

Depth below LNT (m)	Symbol	Geologic Description	Elevation (m)	Sample Type	Sample No.	"N" Value	Recovery (%)	RQD (%)
20		Cobbles and Boulders						
23		SPT: 50 for 2" (Refusal) Gravel SS5, "N" Value 50, Recovery 50%	-6.93	SS	5	50	10	
26		Cobbles and Boulders / Broken Rock	-8.25					
27		End of Borehole						

Standard Penetration Test "N" Value per 300 mm: 20 40 60 80

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Datum: 0 m LNT
Sheet: 2 of 2

Public Works and Government Services Canada / Travaux Publics et Services gouvernementaux Canada

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
This Permit Allows
AFN ENGINEERING INC.
To practice Professional Engineering in Newfoundland and Labrador.
Permit No. as issued by APEGNL F0292
which is valid for the year 2014.

STAMP
REGISTERED PROFESSIONAL ENGINEER
NEIL C. HUNT
SIGNATURE
DATE
NEWFOUNDLAND & LABRADOR

B	ISSUED FOR TENDER	13/08/14
A	ISSUED FOR 33% REVIEW	09/06/14
revisions		date

project / projet

WHARF EXTENSION
HARBOUR GRACE, NL

drawing / dessin

BOREHOLE LOGS

designed / conçu: N.H.
date: AUGUST 13, 2014
drawn / dessiné: P.H.
date: AUGUST 13, 2014
approved / approuvé
date
Tender / Soumission
PWGSC Project Manager / Administrateur de projets TPSGC
project number / no. du projet: R.071732.001
drawing no. / no. du dessin: C8 OF 8

PWGSC B1 (2004)

E-DRM/GDD-E: #495515 Version 1