BOREHOLE LOGS — BH15-1 (Page 1 of 2)

GEMTEC — Consulting Engineers and Scientists

Client: Public Works & Government Services Canada
Project: Structure Replacement, Miller Brook Wharf
Location: Milebrook Wharf Road, Salmon Beach, NB
Proj No.: 4735.59 | Date Drilled: 2015/05/27 | Borehole: BH15-1
Ground Level, m: 3.36 | Datum: Chart | Logged By: ED

Legend: Undrained Shear Strength - kPa (25, 50, 75, 100); ○ Unconfined Compression; ⊕ Field Vane Test; ■ Pocket Penetrometer; ⊗ Remoulded; Water Content & Atterburg Limits (w_P, w, w_L); Dynamic Penetration Test, blows/0.3m; Standard Penetration Test, blows/0.3m

No	TYPE	N (RQD)	REC (mm)
1	S	14	350
2	S	100	170
3	S	17	330
4	S	16	270
5	S	15	140
6	S	23	60
7	S	21	460
8	S	4	80
9	S	9	80
10	S	5	180
11	S	6	0
12	S	12	310
13	S	18	330
14	S	100	470
15	NQ		580
16	NQ		1500
17	NQ		1390

DESCRIPTION:
- Brown gravel and sand, trace silt: FILL
- - trace wood
- 4.22 / -0.86: - trace black wood; Loose black organic SAND and GRAVEL, trace silt
- 7.12 / -3.76: Medium compact reddish brown silty sand, trace gravel: TILL
- 8.51 / -5.15: Grey brown Mudstone: BEDROCK
- - siltstone cobbles throughout

BOREHOLE LOGS — BH15-1 (Page 2 of 2)

Client: Public Works & Government Services Canada
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No	TYPE	N (RQD)	REC (mm)
18	NQ		630
19	NQ		1524

DESCRIPTION:
- - compressive strength of core: 61.4MPa indicating strong rock
- Grey brown Mudstone: BEDROCK
- 15.24 / -11.88: End of BH 15-1 at 15.24 meters below existing ground surface
- Water inferred at 1.37 meters below existing ground surface at the time oh drilling

BOREHOLE LOGS — BH15-2 (Page 1 of 2)

Client: Public Works & Government Services Canada
Project: Structure Replacement, Miller Brook Wharf
Location: Milebrook Wharf Road, Salmon Beach, NB
Proj No.: 4735.59 | Date Drilled: 2015/05/27 | Borehole: BH15-2
Ground Level, m: 3.53 | Datum: Chart | Logged By: ED

No	TYPE	N (RQD)	REC (mm)
1	S	100	200
3	S	36	210
4	S	25	220
5	S	100	150
6	S	2	0
7	S	7	610
8	S	16	500
9	S	19	240
10	S	30	420
11	S	100	100
12	NQ		380
13	NQ		1420

DESCRIPTION:
- Brown gravel and sand, trace silt: FILL (0.48 / 3.05)
- Breakwater boulders: FILL
- 3.05 / 0.48: Dense to medium compact brown GRAVEL and SAND, trace silt
- - trace cobbles from 4.77 meters to 6.71 meters
- - increase amount of silt
- 7.84 / -4.31: Medium compact reddish brown sandy silt, some gravel: TILL
- 9.45 / -5.92: Grey brown Mudstone: BEDROCK

BOREHOLE LOGS — BH15-2 (Page 2 of 2)

Client: Public Works & Government Services Canada
Project: Structure Replacement, Miller Brook Wharf
Location: Milebrook Wharf Road, Salmon Beach, NB
Proj No.: 4735.59 | Date Drilled: 2015/05/27 | Borehole: BH15-2
Ground Level, m: 3.53 | Datum: Chart | Logged By: ED

No	TYPE	N (RQD)	REC (mm)
14	NQ		1520
15	NQ		915

DESCRIPTION:
- Grey brown Mudstone: BEDROCK
- - siltstone cobbles throughout
- 14.53 / -11.00: End of BH 15-2 at 14.53 meters below existing ground surface
- Water inferred at 3.05 meters below existing ground surface at the time oh drilling

BOREHOLE LOGS — BH15-3 (Page 1 of 2)

Client: Public Works & Government Services Canada
Project: Structure Replacement, Miller Brook Wharf
Location: Milebrook Wharf Road, Salmon Beach, NB
Proj No.: 4735.59 | Date Drilled: 2015/05/28 | Borehole: BH15-3
Ground Level, m: 1.94 | Datum: Chart | Logged By: ED

No	TYPE	N (RQD)	REC (mm)
1	S	2	220
2	S	16	400
3	S	19	120
4	S	14	400
5	S	2	610
6	S	1	610
7	S	2	600
8	S	2	0
9	S	4	610
10	S	10	470
11	S	13	480
13	NQ		50
12	S	100	75
14	NQ		60
15	NQ		1420
16	NQ		1520

DESCRIPTION:
- Very loose to medium compact brown gravelly SAND, trace silt
- 1.12 / 0.82: Medium compact reddish brown SAND and GRAVEL, trace silt
- 2.89 / -0.95: Very loose to loose grey brown organic sandy silt, trace gravel
- - trace wood
- - organic silt from 5.18 meters to 5.33 meters
- 5.85 / -3.91: - organic silt from 5.79 meters to 5.85 meters
- Medium compact reddish brown sandy silt, trace gravel: TILL
- 6.78 / -4.84: Grey brown Mudstone: BEDROCK
- - compressive strength of core: 59.8MPa indicating strong rock
- - compressive strength of core: 60.7MPa indicating strong rock
- - siltstone cobbles throughout

BOREHOLE LOGS — BH15-3 (Page 2 of 2)

Client: Public Works & Government Services Canada
Project: Structure Replacement, Miller Brook Wharf
Location: Milebrook Wharf Road, Salmon Beach, NB
Proj No.: 4735.59 | Date Drilled: 2015/05/28 | Borehole: BH15-3
Ground Level, m: 1.94 | Datum: Chart | Logged By: ED

DESCRIPTION:
- Grey brown Mudstone: BEDROCK
- 12.19 / -10.25: End of BH 15-3 at 12.19 meters below existing ground surface
- Water inferred at 0.61 meters below existing ground surface at the time oh drilling

NEW STEEL H-PILE SCHEDULE
BORDEREAU DES NOUVEAUX PIEUX EN H

PILE No. / *No. DE PIEU*	SUPPLIED LENGTH (m) / *LONGUEUR FOURNIE (m)*	TIP ELEVATION (m) / *ÉLÉVATION POINTE (m)*	LENGTH PLACED IN WORK (m) / *LONGUEUR PLACER DANS LES TRAVAUX (m)*	BLOWS/LAST 25mm / *COUPS/DERNIER 25mm*
30 A	12.20			
30 B				
31 A				
31 B				
32 A				
32 B				
33 A				
33 B				
34 A				
34 B				
35 A				
35 B				
36 A				
36 B				
37 A				
37 B				
38 A				
38 B				
39 A				
39 B				
40 A				
40 B				
41 A				
41 B				
42 A				
42 B				
43 A				
43 B				
44 A				
44 B				
45 A				
45 B				
46 A				
46 B				
47 A				
47 B				
48 A				
48 B				
49 A				
49 B				
50 A				
50 B	12.20			

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

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Registered Professional Engineer, Province of New Brunswick, #M4875, Claude Boucher, December 29, 2015

revisions		date
1	FOR TENDER / POUR SOUMISSION	12/29 2015

project / projet:
TRAINING WALL RECONSTRUCTION 401
RECONSTRUCTION DU MUR DE DIRECTION 401
MILLER BROOK, NB
COMTÉ DE GLOUCESTER COUNTY

drawing / dessin:
BOREHOLE RECORDS AND PILE SCHEDULE
RECORDS DE FORAGE ET BORDEREAU DE PIEU

designed / conçu: CY BOUCHER ENG & CONST. LTD.
date: DECEMBER/DÉCEMBRE 2015
drawn / dessiné: P. LEBLANC
date: DECEMBER/DÉCEMBRE 2015
approved / approuvé:
date:
Tender / Soumission: 2016/01/20
PWGSC Project Manager / Administrateur de projets TPSGC
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