RECORD OF BORE HOLE

DEPARTMENT OF PUBLIC WORKS, CANADA
TESTING LABORATORIES

LOCATION: HOWARD'S COVE, P.E.I. | DATE: 19 Apr 67 | HOLE NO: 3
PROJECT: Dredging & Landing | BORING BY: A Scott | FILE NO: 32-3099
BORING RECORD NO.: | DRAWN: KC | CHECKED: | APPROVED:

SAMPLE TYPE: UNDISTURBED; DISTURBED; ROCK CORE
ELEVATION (FT): DATUM: LWOST; GROUND WATER:; GAUGE READING:; GROUND SURFACE: - 0.8; BEDROCK SURFACE: - 3.3; BOTTOM OF HOLE: -15.7

PENETRATION RESISTANCE: STD. PEN. RESISTANCE, N; 2 INCH DIA. CONE; CASING; UNDRAINED SHEAR STRENGTH, s_u; FORMS: UNCONFINED COMPRESSION ($q_u/2$); QUICK TRIAXIAL; FIELD VANE
CONSISTENCY: NATURAL WATER CONTENT, w; LIQUID LIMIT, w_L; PLASTIC LIMIT, w_P; BULK DENSITY, γ; BUOYANT DENSITY, γ'; PRECONSOLIDATION PRESSURE, p'_c

SAMPLE NO.	TYPE	DESCRIPTION OF OVERBURDEN AND BEDROCK	ELEV. (FT)	DEPTH (FT)
		▼	0.0	LWOST
		Water	- 0.8	
		MEDIUM & FINE SAND (Very loose)		
35				
		SANDSTONE	- 3.3	
		SHALE	- 3.6	
		BRECCIA, Shale pebbles	- 4.3	
		SANDSTONE	- 4.9	
		BRECCIA	- 5.2	
		SANDSTONE	- 6.5	
		SHALY SANDSTONE, Soft	- 7.2	
			- 9.2	
		SANDSTONE	-10.0	
		SANDSTONE - SHALE Soft		
			-15.0	
		SANDSTONE	-15.7	

Drilled Recovery (ft)
2.7 2.2
4.7 4.5
5.0 4.4

N: 10 BLOWS/FT

REMARKS

RECORD OF BORE HOLE

DEPARTMENT OF PUBLIC WORKS, CANADA
TESTING LABORATORIES

LOCATION: HOWARD'S COVE, P.E.I. | DATE: 23 Apr 67 | HOLE NO: 4
PROJECT: Dredging & Landing | BORING BY: A Scott | FILE NO: 32-3099
BORING RECORD NO.: 2872 | DRAWN: KC | CHECKED: | APPROVED:

SAMPLE TYPE: UNDISTURBED; DISTURBED; ROCK CORE
ELEVATION (FT): DATUM: LWOST; GROUND WATER:; GAUGE READING:; GROUND SURFACE: - 2.3; BEDROCK SURFACE: - 3.0; BOTTOM OF HOLE: -12.9

PENETRATION RESISTANCE: STD. PEN. RESISTANCE, N; 2 INCH DIA. CONE; CASING; UNDRAINED SHEAR STRENGTH, s_u; FORMS: UNCONFINED COMPRESSION ($q_u/2$); QUICK TRIAXIAL; FIELD VANE
CONSISTENCY: NATURAL WATER CONTENT, w; LIQUID LIMIT, w_L; PLASTIC LIMIT, w_P; BULK DENSITY, γ; BUOYANT DENSITY, γ'; PRECONSOLIDATION PRESSURE, p'_c

SAMPLE NO.	TYPE	DESCRIPTION OF OVERBURDEN AND BEDROCK	ELEV. (FT)	DEPTH (FT)
		▼	0.0	LWOST
		Water	- 2.3	
26		SILTY FINE SAND (Loose)	- 3.0	
		SANDSTONE, fine grained	- 4.0	
		SHALE	- 4.5	
		BRECCIA, Calcareous	- 5.9	
		SANDSTONE	-10.8	
		BRECCIA, Calcareous	-11.6	
		SANDSTONE - SHALE very soft	-12.9	

Drilled Recovery (ft)
4.4 2.2
4.5 2.1
4.5 2.1
2.5 2.0

REMARKS

FORM 6/17 413

RECORD OF BORE HOLE

DEPARTMENT OF PUBLIC WORKS, CANADA
TESTING LABORATORIES

LOCATION: HOWARD'S COVE, P.E.I. | DATE: 19 Apr 67 | HOLE NO: 5
PROJECT: Dredging & Landing | BORING BY: A Scott | FILE NO: 32-3099
BORING RECORD NO.: 2872 | DRAWN: KC | CHECKED: | APPROVED:

SAMPLE TYPE: UNDISTURBED; DISTURBED; ROCK CORE
ELEVATION (FT): DATUM: LWOST; GROUND WATER:; GAUGE READING:; GROUND SURFACE: - 2.2; BEDROCK SURFACE: - 2.9; BOTTOM OF HOLE: -16.3

PENETRATION RESISTANCE: STD. PEN. RESISTANCE, N; 2 INCH DIA. CONE; CASING; UNDRAINED SHEAR STRENGTH, s_u; FORMS: UNCONFINED COMPRESSION ($q_u/2$); QUICK TRIAXIAL; FIELD VANE
CONSISTENCY: NATURAL WATER CONTENT, w; LIQUID LIMIT, w_L; PLASTIC LIMIT, w_P; BULK DENSITY, γ; BUOYANT DENSITY, γ'; PRECONSOLIDATION PRESSURE, p'_c

SAMPLE NO.	TYPE	DESCRIPTION OF OVERBURDEN AND BEDROCK	ELEV. (FT)	DEPTH (FT)
		▼	0.0	LWOST
		Water	- 2.2	
34		SILTY FINE SAND (Loose)	- 2.9	
		SANDSTONE, Micaceous Compact		
		SHALE	- 6.1	
		BRECCIA, strongly Calcareous	- 6.4	
		SANDSTONE, Micaceous	- 6.9	
			-10.9	
		SANDSTONE, Coarse, very Micaceous	-12.9	
		SHALE, weathered very soft	-16.3	

Drilled Recovery (ft)
2.5 2.2
5.5 4.1
5.4 5.1

REMARKS

RECORD OF BORE HOLE

DEPARTMENT OF PUBLIC WORKS, CANADA
TESTING LABORATORIES

LOCATION: HOWARD'S COVE, P.E.I. | DATE: 14 Apr 67 | HOLE NO: 6
PROJECT: Dredging & Landing | BORING BY: A Scott | FILE NO: 32-3099
BORING RECORD NO.: 2872 | DRAWN: KC | CHECKED: | APPROVED:

SAMPLE TYPE: UNDISTURBED; DISTURBED; ROCK CORE
ELEVATION (FT): DATUM: LWOST; GROUND WATER:; GAUGE READING:; GROUND SURFACE: - 1.7; BEDROCK SURFACE: - 2.6; BOTTOM OF HOLE: -15.2

PENETRATION RESISTANCE: STD. PEN. RESISTANCE, N; 2 INCH DIA. CONE; CASING; UNDRAINED SHEAR STRENGTH, s_u; FORMS: UNCONFINED COMPRESSION ($q_u/2$); QUICK TRIAXIAL; FIELD VANE
CONSISTENCY: NATURAL WATER CONTENT, w; LIQUID LIMIT, w_L; PLASTIC LIMIT, w_P; BULK DENSITY, γ; BUOYANT DENSITY, γ'; PRECONSOLIDATION PRESSURE, p'_c

SAMPLE NO.	TYPE	DESCRIPTION OF OVERBURDEN AND BEDROCK	ELEV. (FT)	DEPTH (FT)
		▼	0.0	LWOST
		Water	- 1.7	
27		FINE SAND, some fines (Compact)	- 2.6	
		SANDSTONE, very compact	- 7.2	
		BRECCIA with Shale pebbles, calcareous	- 9.6	
		SANDSTONE, Micaceous, Calcareous	-15.2	

Drilled Recovery (ft)
2.5 2.3
2.6 2.2
2.6 1.6
2.5 2.2
2.4 2.1

REMARKS

RECORD OF BORE HOLE

DEPARTMENT OF PUBLIC WORKS, CANADA
TESTING LABORATORIES

LOCATION: HOWARD'S COVE, P.E.I. | DATE: 18 Apr 67 | HOLE NO: 7
PROJECT: Dredging & Landing | BORING BY: A Scott | FILE NO: 32-3099
BORING RECORD NO.: 2872 | DRAWN: KC | CHECKED: | APPROVED:

SAMPLE TYPE: UNDISTURBED; DISTURBED; ROCK CORE
ELEVATION (FT): DATUM: LWOST; GROUND WATER:; GAUGE READING:; GROUND SURFACE: - 1.6; BEDROCK SURFACE: - 2.9; BOTTOM OF HOLE: -15.6

PENETRATION RESISTANCE: STD. PEN. RESISTANCE, N; 2 INCH DIA. CONE; CASING; UNDRAINED SHEAR STRENGTH, s_u; FORMS: UNCONFINED COMPRESSION ($q_u/2$); QUICK TRIAXIAL; FIELD VANE
CONSISTENCY: NATURAL WATER CONTENT, w; LIQUID LIMIT, w_L; PLASTIC LIMIT, w_P; BULK DENSITY, γ; BUOYANT DENSITY, γ'; PRECONSOLIDATION PRESSURE, p'_c

SAMPLE NO.	TYPE	DESCRIPTION OF OVERBURDEN AND BEDROCK	ELEV. (FT)	DEPTH (FT)
		▼	0.0	LWOST
		Water	- 1.6	
33		SAND & CLAYEY SILT (dense)	- 2.9	
		(weathered)	- 3.5	
		SANDSTONE, compact		
		(Sound)	- 9.6	
		SHALY CLAY, soft	-10.2	
		SANDSTONE, Micaceous, Calcareous, Compact		
		SHALE, very soft	-14.9	
			-15.6	

Drilled Recovery (ft)
2.4 2.2
4.8 3.9
5.5 5.0

N: 10 BLOWS/FT

REMARKS

RECORD OF BORE HOLE

DEPARTMENT OF PUBLIC WORKS, CANADA
TESTING LABORATORIES

LOCATION: HOWARD'S COVE, P.E.I. | DATE: 3 Apr 67 | HOLE NO: 8
PROJECT: Dredging & Landing | BORING BY: A Scott | FILE NO: 32-3099
BORING RECORD NO.: 2872 | DRAWN: KC | CHECKED: | APPROVED:

SAMPLE TYPE: UNDISTURBED; DISTURBED; ROCK CORE
ELEVATION (FT): DATUM: LWOST; GROUND WATER:; GAUGE READING:; GROUND SURFACE: - 1.2; BEDROCK SURFACE: - 3.2; BOTTOM OF HOLE: -10.5

PENETRATION RESISTANCE: STD. PEN. RESISTANCE, N; 2 INCH DIA. CONE; CASING; UNDRAINED SHEAR STRENGTH, s_u; FORMS: UNCONFINED COMPRESSION ($q_u/2$); QUICK TRIAXIAL; FIELD VANE
CONSISTENCY: NATURAL WATER CONTENT, w; LIQUID LIMIT, w_L; PLASTIC LIMIT, w_P; BULK DENSITY, γ; BUOYANT DENSITY, γ'; PRECONSOLIDATION PRESSURE, p'_c

SAMPLE NO.	TYPE	DESCRIPTION OF OVERBURDEN AND BEDROCK	ELEV. (FT)	DEPTH (FT)
		▼	0.0	LWOST
		Water	- 1.2	
5		SAND and CLAYEY SILT (Loose & soft to firm)	- 3.2	
		SANDSTONE	- 8.3	
		BRECCIA, Calcareous (Sound)	-10.0	
		(fully weathered)	-10.5	

Drilled Recovery (ft)
2.5 2.0
2.3 2.1
2.3 1.8

N: 10 20 BLOWS/FT

REMARKS

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

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NOTES:

1. BOREHOLES COMPLETED IN 1967 ARE PROVIDED FOR REFERENCE ONLY TO INDICATE BEDROCK QUALITY AND APPROXIMATE BEDROCK ELEVATION.
2. BOREHOLES COMPLETED IN 1967 ARE BASED ON A LWOST ELEVATION OF 0.00 ft.

revisions		date

project / projet

HOWARD'S COVE WHARF REPAIRS PHASE 2

PRINCE COUNTY, PEI

drawing / dessin

BOREHOLE RECORDS

designed	W. ENMAN (conçu)
date	SEPT. 2015
drawn	D. BEAMAN (dessiné)
date	SEPT. 2015
approved	(approuvé)
date	Oct 27/15
Tender	Soumission
PWGSC Project Manager	Administrateur de projets TPSGC
	Nov 4/15

project number / no. du projet: R.076461.001

drawing no. / no. du dessin: M6 of 6

PWGSC A1 (2004)

E-DRW/GDD-E: 531104 Version 1