

Form G.A.-0-1. Project No. 83-5545

RECORD OF BOREHOLE 209

LOCATION: See Figure 1 BORING DATE: 1983-06-01 DATUM: MSL
SAMPLER HAMMER WEIGHT: 1000g DROP: 1.0m PENETRATION TEST HAMMER WEIGHT: 1000g DROP: 1.0m

SOIL PROFILE	SAMPLER	DYNAMIC PENETRATION RESISTANCE, BLN/CM	COEFFICIENT OF PERMEABILITY, k_v CM/SEC				PIEZOMETER OR STANDPIPE INSTALLATION
			10.0	15.0	20.0	25.0	
0.0 - 1.0: Sand, silty, medium dense	1	10					
1.0 - 2.0: Sand, silty, medium dense	2	15					
2.0 - 3.0: Sand, silty, medium dense	3	20					
3.0 - 4.0: Sand, silty, medium dense	4	25					
4.0 - 5.0: Sand, silty, medium dense	5	30					
5.0 - 6.0: Sand, silty, medium dense	6	35					
6.0 - 7.0: Sand, silty, medium dense	7	40					
7.0 - 8.0: Sand, silty, medium dense	8	45					
8.0 - 9.0: Sand, silty, medium dense	9	50					
9.0 - 10.0: Sand, silty, medium dense	10	55					

VERTICAL SCALE: 1:10
Golder Associates
DRAWN: [Signature]
CHECKED: [Signature]

Form G.A.-0-1. Project No. 83-5545

RECORD OF BOREHOLE 204

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SOIL PROFILE	SAMPLER	DYNAMIC PENETRATION RESISTANCE, BLN/CM	COEFFICIENT OF PERMEABILITY, k_v CM/SEC				PIEZOMETER OR STANDPIPE INSTALLATION
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4.0 - 5.0: Sand, silty, medium dense	5	30					
5.0 - 6.0: Sand, silty, medium dense	6	35					
6.0 - 7.0: Sand, silty, medium dense	7	40					
7.0 - 8.0: Sand, silty, medium dense	8	45					
8.0 - 9.0: Sand, silty, medium dense	9	50					
9.0 - 10.0: Sand, silty, medium dense	10	55					

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6.0 - 7.0: Sand, silty, medium dense	7	40					
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Form G.A.-0-1. Project No. 83-5545

BOREHOLE No. BH 101

Date Drilled: 08 AUG 2017 Location: Proposed Breakwater, Sta. 2-016
Contractor: Logan Drilling Group Elevation: 5.1
Equipment: Track-mounted auger (CME 55) Datum: Low Normal Tide (Chart)

SOIL DESCRIPTION	Sample Type	Sample Number	Recovery, %	SPT N-value	Moisture Content, %	CPT N-value		
							10	20
Ground Surface	SS	1	800	1	14			
Very loose to compact, fine to medium grained, brown sand, trace silt, gravel; Marine Deposit	SS	2	550	14	22	0		
	SS	3	300	25	22			
	SS	4	200	10	20			
	SS	5	350	5	18	SL		
Firm to stiff, reddish brown clayey silt and sand, trace to some gravel; Till	SS	6	300	15	16			
	SS	7	150	19	21			
	SS	8	150	19	21			

End of Borehole

Joose Environmental

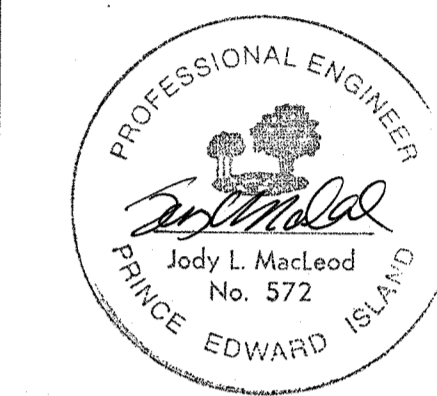
BOREHOLE No. BH 102

Date Drilled: 08 AUG 2017 Location: Proposed Breakwater, Sta. 2-033
Contractor: Logan Drilling Group Elevation: 1.1
Equipment: Track-mounted auger (CME 55) Datum: Low Normal Tide (Chart)

SOIL DESCRIPTION	Sample Type	Sample Number	Recovery, %	SPT N-value	Moisture Content, %	CPT N-value		
							10	20
Ground Surface	SS	1	500	2	29			
Very loose to compact, fine to medium grained, brown to greyish brown sand, trace silt, gravel; Marine Deposit	SS	2	550	27	22	0		
	SS	3	300	7	16			
	SS	4	450	8	17			
	SS	5	450	15	16	SL		
Firm to stiff, reddish brown clayey silt and sand, trace to some gravel; Till	SS	6	450	10	16			
	SS	7	450	15	16			
	SS	8	450	10	16			
	SS	9	450	15	16			
Firm to stiff, reddish brown clayey silt and sand, trace to some gravel; Till	SS	10	450	11	16			
	SS	11	450	10	16			
	SS	12	450	15	16			

End of Borehole

Joose Environmental



BOREHOLE NOTES:

- BOREHOLE LOGS DATED JUNE 1983 WERE EXTRACTED FROM A GEOTECHNICAL REVIEW REPORT BY JOOSE ENVIRONMENTAL CONSULTING INC., DATED MARCH 29, 2016 INCLUDED IN PROJECT SPECIFICATIONS.
- BOREHOLE LOGS DATED AUGUST 8, 2017 WERE EXTRACTED FROM A SUPPLEMENTAL GEOTECHNICAL INVESTIGATION BY JOOSE ENVIRONMENTAL CONSULTING INC., DATED AUGUST 18, 2017 INCLUDED IN PROJECT SPECIFICATIONS.
- THE BOREHOLE DATA AND INFORMATION PERTAINING TO SOILS IS FURNISHED BY THE DEPARTMENTAL REPRESENTATIVE FOR INFORMATION ONLY. THE BOREHOLE DATA IS NOT TO BE INTERPRETED AS DESCRIPTIVE OF CONDITIONS AT LOCATIONS OTHER THAN THOSE DESCRIBED BY THE BOREHOLES.
- BOREHOLE LOCATIONS ARE SHOWN IN PLAN ON S01.

0	ISSUED FOR TENDER	OCT. 19 2017
revisions		date
project		project

**NORTH LAKE
BREAKWATER 305
RECONSTRUCTION
NORTH LAKE HARBOUR
KINGS COUNTY, P.E.I.**

drawing dessin

BOREHOLE SUMMARY

designed	J. MACLEOD	conçu
date	AUG. 2017	
drawn	R. CLAHANE	dessiné
date	AUG. 2017	
approved		approuvé
date		
Tender	R.V.L.	Submission
PWSC Project Manager	Administrateur de projets TPSC	
project number	R.088162.001	no. du projet
drawing no.	S07	no. du dessin