BOREHOLE No. BH 1-18

Page 1 of 2

Date Drilled: March 13, 2018
Water Level: Tidal
Contractor/Equipment: Logan/CME 55

Project No.: JE0300
Elevation: 1.54 m
Datum: Low Normal Tide (Chart)

Location: Savage Harbour, Queens County, PEI
Project: Proposed Wharf Reconstruction
Client: Small Craft Harbours, Fisheries and Oceans Canada

Depth (ft / m)	Elevation, m	SOIL DESCRIPTION	Strata Plot	Water Level	Sample Type	Sample Number	Recovery, mm	SPT N-Value	RQD	Moisture Content, %	Other Tests	SPT N-Value (10 20 30 40 50 60 70 80 90)
0	1.54	Wharf Deck										
0	0.00	Compact to loose reddish brown gravelly silty sand, some wood, and occasional cobbles (imported): **FILL**; upper 90 mm pavement			SS	1	450	13		12	S	
2					SS	2	175	6				
					NQ	3	175					
3	-1.66				NQ	4	100					
4	3.20	Loose to very loose reddish brown silty sand, trace to some gravel: **MARINE DEPOSIT**			SS	5	450	6		17	S	
5					SS	6	150	1				
6	-4.56				SS	7	400	12		14	S/A	
6	6.10	Compact reddish brown silt and sand, trace clay, trace to some gravel, occasional sandstone cobbles: **TILL**			SS	8	450	12				
9					SS	9	75	50				
					NQ	10	300					

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BOREHOLE No. BH 2-18

Page 1 of 2

Date Drilled: March 13, 2018
Water Level: Tidal
Contractor/Equipment: Logan/CME 55

Project No.: JE0300
Elevation: 1.71 m
Datum: Low Normal Tide (Chart)

Location: Savage Harbour, Queens County, PEI
Project: Proposed Wharf Reconstruction
Client: Small Craft Harbours, Fisheries and Oceans Canada

Depth (ft / m)	Elevation, m	SOIL DESCRIPTION	Strata Plot	Water Level	Sample Type	Sample Number	Recovery, mm	SPT N-Value	RQD	Moisture Content, %	Other Tests	SPT N-Value (10 20 30 40 50 60 70 80 90)
0	1.71	Wharf Deck										
0	0.00	Compact to loose reddish brown gravelly silty sand, some wood, and occasional cobbles: **FILL**; upper 75 mm pavement			SS	1	450	10				
2					NQ	2	100					
3	-1.64				SS	3	450	5				
4	3.35	Loose reddish brown silty sand, trace to some gravel: **MARINE DEPOSIT**			SS	4	450	5				
6	-4.38				SS	5	175	12				
6	6.09	Compact reddish brown silt and sand, trace clay, trace to some gravel, occasional sandstone cobbles: **TILL**			SS	6	150	20				
					SS	7	100	10				

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BOREHOLE No. BH 3-18

Page 1 of 2

Date Drilled: March 13, 2018
Water Level: Tidal
Contractor/Equipment: Logan/CME 55

Project No.: JE0300
Elevation: 1.70 m
Datum: Low Normal Tide (Chart)

Location: Savage Harbour, Queens County, PEI
Project: Proposed Wharf Reconstruction
Client: Small Craft Harbours, Fisheries and Oceans Canada

Depth (ft / m)	Elevation, m	SOIL DESCRIPTION	Strata Plot	Water Level	Sample Type	Sample Number	Recovery, mm	SPT N-Value	RQD	Moisture Content, %	Other Tests	SPT N-Value (10 20 30 40 50 60 70 80 90)
0	1.70	Wharf Deck										
0	0.00	Compact to loose reddish brown gravelly silty sand, some wood, and occasional cobbles: **FILL**; upper 75 mm pavement			SS	1	600	17		13	S	
2					SS	2	175	45				
					NQ	2x	150					
3	-1.35				SS	3	150	2				
4	3.05	Very loose to loose reddish brown silty sand, trace to some gravel, trace wood: **MARINE DEPOSIT**			SS	4	350	11		13	S/A	
5	-2.87				SS	5	450	11				
6	4.57	Compact reddish brown silt and sand, trace clay, trace to some gravel, occasional sandstone cobbles: **TILL**			SS	6	375	18		13		
9					SS	7	100	24				

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BOREHOLE No. BH 1-18

Page 2 of 2

Date Drilled: March 13, 2018
Water Level: Tidal
Contractor/Equipment: Logan/CME 55

Project No.: JE0300
Elevation: 1.54 m
Datum: Low Normal Tide (Chart)

Location: Savage Harbour, Queens County, PEI
Project: Proposed Wharf Reconstruction
Client: Small Craft Harbours, Fisheries and Oceans Canada

Depth (ft / m)	Elevation, m	SOIL DESCRIPTION	Strata Plot	Water Level	Sample Type	Sample Number	Recovery, mm	SPT N-Value	RQD	Moisture Content, %	Other Tests	SPT N-Value (10 20 30 40 50 60 70 80 90)
34												
11		**TILL**, as above			NQ	11	300					
12					SS	12	450	17				
13												
14	-13.40											
15	14.94	Very weak to weak, medium grained, reddish brown sandstone, occasional very stiff to hard mudstone layers (up to 300 mm): **BEDROCK**; extremely close to moderately close joint spacing			NQ	13	92%		65			
16												
17					NQ	14	98%		75			
18	-16.75											
19	18.29	End of Borehole										

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BOREHOLE No. BH 2-18

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Date Drilled: March 13, 2018
Water Level: Tidal
Contractor/Equipment: Logan/CME 55

Project No.: JE0300
Elevation: 1.71 m
Datum: Low Normal Tide (Chart)

Location: Savage Harbour, Queens County, PEI
Project: Proposed Wharf Reconstruction
Client: Small Craft Harbours, Fisheries and Oceans Canada

Depth (ft / m)	Elevation, m	SOIL DESCRIPTION	Strata Plot	Water Level	Sample Type	Sample Number	Recovery, mm	SPT N-Value	RQD	Moisture Content, %	Other Tests	SPT N-Value (10 20 30 40 50 60 70 80 90)
34												
11		**TILL**, as above			SS	8	100	22				
12	-10.79				SS	9	150	32				
13	12.50	Very weak to weak, medium grained, reddish brown sandstone, occasional very stiff to hard mudstone layers (150 to 200 mm): **BEDROCK**; extremely close to moderately close joint spacing			NQ	10	92%		33			
14												
15					NQ	11	93%		42			
16												
17	-15.36				NQ	12	97%		67			
18	17.07	End of Borehole										

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BOREHOLE No. BH 3-18

Page 2 of 2

Date Drilled: March 13, 2018
Water Level: Tidal
Contractor/Equipment: Logan/CME 55

Project No.: JE0300
Elevation: 1.70 m
Datum: Low Normal Tide (Chart)

Location: Savage Harbour, Queens County, PEI
Project: Proposed Wharf Reconstruction
Client: Small Craft Harbours, Fisheries and Oceans Canada

Depth (ft / m)	Elevation, m	SOIL DESCRIPTION	Strata Plot	Water Level	Sample Type	Sample Number	Recovery, mm	SPT N-Value	RQD	Moisture Content, %	Other Tests	SPT N-Value (10 20 30 40 50 60 70 80 90)
34												
11		**TILL**, as above			SS	8	300	12		15		
12	-10.19				SS	9	75	50				
13	11.89	Very weak to weak, medium grained, reddish brown sandstone: **BEDROCK**; extremely close to moderately close joint spacing			NQ	10	100%		55			
14	-12.00											
15	13.70	Hard reddish brown mudstone: **BEDROCK**			NQ	11	100%		75			
15	-13.00											
16	14.70	Very weak to weak, fine grained, reddish brown sandstone: **BEDROCK**; extremely close to moderately close joint spacing										
	-13.62											
	15.32	End of Borehole										

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

SHM CANADA
INNOVATIVE ENGINEERING AND DESIGN
STRUCTURAL ENGINEERING | STUCTURAL HEALTH MONITORING

THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF THE PROVINCE OF PRINCE EDWARD ISLAND
VALID FOR THE YEAR 2022
Digitally signed by Vidyadhar Limaye
DN: cn=Vidyadhar Limaye, o=S.H.M. of DM Canada Consulting Limited, ou=Structural Engineer, email=vidyadhar.limaye@shmcanada.com
Date: 2022.03.23 08:21:47 -03'00'
Vidyadhar Limaye
No. 1622
DATE: 23/03/2022
LICENSED PROFESSIONAL ENGINEER
PROVINCE OF PRINCE EDWARD ISLAND

revisions		date
0	ISSUED FOR TENDER	MAR 23 2022

project / projet

WHARF CONSTRUCTION
402, 403, and 404
SAVAGE HARBOUR
QUEENS CO., PE

drawing / dessin

BOREHOLE DATA

designed / conçu: P.V. — date: MAR 2021
drawn / dessiné: S.W.P. — date: MAR 2021
approved / approuvé: V.L. — date:
Tender / Soumission
PWGSC Project Manager / Administrateur de projets TPSGC
project number / no. du projet: R.117999.001
drawing no. / no. du dessin: S15

E-DRM/GDD-E: 553388