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The Cambridge Building
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SOLICITATION AMENDMENT MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise
indicated, all other terms and conditions of the Solicitation
remain the same.

Ce document est par la présente révisé; sauf indication contraire,
les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Commercial Acquisitions (PEI)
The Cambridge Building
3 Queen Street/3 rue, Queen
Charlottetown, PEI C1A 4A2

Title - Sujet Breakwater 305 Const.-North Lake,PE	
Solicitation No. - N° de l'invitation ED001-181783/A	Amendment No. - N° modif. 003
Client Reference No. - N° de référence du client R.088162.001	Date 2017-11-10
GETS Reference No. - N° de référence de SEAG PW-\$PWC-023-4217	
File No. - N° de dossier PEI-7-40111 (023)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-11-16	
Time Zone Fuseau horaire Atlantic Standard Time AST	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Ellis-Herring, Alison	Buyer Id - Id de l'acheteur pwc023
Telephone No. - N° de téléphone (506) 636-3908 ()	FAX No. - N° de FAX (506) 636-4376
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

Solicitation No. - N° de l'invitation
ED001-181783/A

Amd. No. - N° de la modif.
003

Buyer ID - Id de l'acheteur
PWC023

Client Ref. No. - N° de réf. du client
R.088162.001

File No. - N° du dossier
PEI-7-40111

CCC No./N° CCC - FMS No./N° VME

Cette modification à l'invitation numéro trois (3) est soumise pour inclure l'addenda numéro 3 suivant.

La modification qui suit apportée aux documents de soumission entre en vigueur dès maintenant.
L'addenda fera partie des documents de contrat.

Toutes autres conditions ne changent pas.

Addenda numéro 3.

1. DEVIS

.1 In spec Section 35 20 23, **DELETE:**

2.1.2.4.2 Filter stone shall conform to 200 kg to 800 kg Class designation, 500 kg Median weight and:

- .1 No more than 5% shall be less than 100 kg.
- .2 No more than 10% shall be less than 200 kg.
- .3 No less than 70% shall be less than 800 kg.
- .4 No less than 97% shall be less than 1200 kg

AND REPLACE WITH:

2.1.2.4.2 Filter stone shall conform to 200 kg to 800 kg Class designation, With a 500 kg Median weight.

.2 In spec Section 35 20 23, **DELETE:**

2.1.2.5.2 Armour stone shall conform to 4.0 tonne to 6.0 tonne Class designation, 5.0 tonne median weight and:

- .1 No more than 5% shall be less than 2000 kg.
- .2 No more than 10% shall be less than 4000 kg.
- .3 No less than 70% shall be less than 6000 kg.
- .4 No less than 97% shall be less than 9000 kg.

AND REPLACE WITH:

2.1.2.5.2 Armour stone shall conform to 4.0 tonne to 6.0 tonne Class designation, with a 5.0 tonne median weight.

2. QUESTIONS ET RÉPONSES

Q1. Could you clarify section 35 31 23.13 for the Filter and Armour

2.1.4.2 Filter Stone stone shall conform to 200 kg to 800kg class designation, 500kg median weight and :
1. no more than 5% shall be less that 100 kg

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PWC023

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R.088162.001

File No. - N° du dossier
PEI-7-40111

CCC No./N° CCC - FMS No./N° VME

2. no more than 10% shall be less than 200kg
3. No less than 70% shall be less than 800kg
4. No less than 97% shall be less than 1200kg

does this mean there will 30% more that needs to be bigger then 800kg

does this mean there will be 3% more that will be bigger then 1200kg

2.1.4.5 Armour Stone shall conform to 4.0 tonne to 6.0 tonne class designation, 5.0 tonne median weight and:

1. no more than 5% shall be less than 2000kg
2. no more than 10% shall be less than 4000kg
3. no less than 70% shall be less than 6000kg
4. No less than 97% shall be less than 9000kg

Does this mean there will be 30% more that will be greater then 6 tonne

Does this mean there will be 3% more that will be greater then 9 tonne

If the item for armour is 4 to 6 tonne armour with median being 5 tonne we will need to know that there are potential for 7-10 tonne rocks as this will require a different methodology for loading and placing

A1. Refer above to item 1 of this Solicitation Amendment Number 3.

Q2. The soils report on the last page of the drawings are not able to be read. could this be resnt so they could be read

A2. The borehole logs on Drawing S07 can also be found in Appendix A of the Specification and are also attached below as a supplement to the drawing

RECORD OF BOREHOLE 209

LOCATION See Figure 3

BORING DATE June 24, 1983

DATUM LWOST

SAMPLER HAMMER WEIGHT 622N DROP 0.76 m

PENETRATION TEST HAMMER WEIGHT DROP

BORING METHOD	SOIL PROFILE		SAMPLES		ELEVATION SCALE	DYNAMIC PENETRATION RESISTANCE, BLOWS /				COEFFICIENT OF PERMEABILITY, K_v , CM. / SEC.				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
	ELEV'N. DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER		TYPE	BLOWS / 0.3m	SHEAR STRENGTH		WATER CONTENT, PERCENT					
								Cu.	NAT. V. - + Q. - ● REM. V. - ● U. - ○	1x10	1x10	1x10	1x10		
WASH DRILLING BW CASING	3.44	Top of Wharf													
		Air Gap													
	1.31														
	1.0	Boulder Fill													
	2.4	Alternative layers of compact to dense red SILTY SAND to SANDY SILT trace gravel & firm red CLAYEY SILT, trace sand & gravel		1	50 mm OD	43									
				2	"	6									
				3	"	4									
	-3.9														
	7.3	Weathered layered SANDSTONE and MUDSTONE (BEDROCK)		4	"	15									
				5	"	50 / 0.125 m									
DIAMOND DRILLING UNCASED				6	"	23 / 0.15 m 50 / 0.75 m									
	-9.45			7	BXL RC										
	12.89	End of Borehole		8	50 mm OD	58									

RQD=0%
 SCR=27%
 TCR=58%

0
 15 5 10 Percent axial strain at failure

VERTICAL SCALE 1:75

Golder Associates

DRAWN *WGL*
CHECKED *WV*

RECORD OF BOREHOLE 204																
LOCATION See Figure 3				BORING DATE June 22, 1983				DATUM LWOST								
SAMPLER HAMMER WEIGHT 622N DROP 0.76 m				PENETRATION TEST HAMMER WEIGHT DROP												
BORING METHOD	SOIL PROFILE			SAMPLES			ELEVATION SCALE	DYNAMIC PENETRATION RESISTANCE, BLOWS/			COEFFICIENT OF PERMEABILITY, k_v , CM./SEC.				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
	ELEV'N. DEPTH	DESCRIPTION	STRAT. PLT	NUMBER	TYPE	BLOWS/0.3m		SHEAR STRENGTH Cu.	NAT. V. - + Q. - ● REM. V. - ⊕ U. - ○	WATER CONTENT, PERCENT Wp 5 10 15 20						
WASH DRILLING BW CASING	4.04	Drilling Platform					4									
	0.0						3									
		Air Gap					2									
							1									
	-0.17	Harbour Bottom					0									
	4.21			1	50 mm DO	28	-1									
		Alternating layers of compact red SILTY SAND & stiff red CLAYEY SILT trace gravel		2	50 mm DO	10	-2									
				3	50 mm DO	11	-3									
				4	50 mm DO	30	-4									
				5	50 mm DO	20	-5									
DIAMOND DRILLING UNCASED	-5.3			6	50 mm DO	20	-6									
	9.3	Weathered red SANDSTONE (BEDROCK)		7	50 mm DO	58	-7									
	-9.07						-8									
	13.11	End of Borehole					-9									

VERTICAL SCALE 1:75

Golder Associates

DRAWN *hgw*
 CHECKED _____

RECORD OF BOREHOLE 203

LOCATION See Figure 3

BORING DATE June 21, 1983

DATUM LWOST

SAMPLER HAMMER WEIGHT 622N DROP

0.76 m

PENETRATION TEST HAMMER WEIGHT

DROP

BORING METHOD	SOIL PROFILE		SAMPLES			ELEVATION SCALE	DYNAMIC PENETRATION RESISTANCE, BLOWS/		COEFFICIENT OF PERMEABILITY, k_v , CM./SEC.				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
	ELEV'N. DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE		BLOWS/0.3m	SHEAR STRENGTH Cu.	NAT. V. + REM. V. -	Q. - U. -	WATER CONTENT, PERCENT					
											1x10	1x10			1x10	1x10
WASH DRILLING BW CASING	4.20	Drilling Platform														
	0.0															
	-0.71	Harbour Bottom														
	4.91			1	mm DO	18										
				2	"	13										
				3	"	19										
				4	"	8										
				5	"	59										
				6	BXL RC											
				7	50 mm DO	68										
DIAMOND DRILLING UNCASED	-6.60															
	12.8															
	-9.52	Weathered red SANDSTONE (BEDROCK)		8	BXL RC											
	13.72	End of Borehole														

RQD=0%
 SCR=10%
 TCR=43%

RQD=0%
 SCR=1%
 TCR=17%

0 5 10
 Percent axial strain at failure

VERTICAL SCALE 1:75

Golder Associates

 DRAWN *LLG*
 CHECKED *MM*

RECORD OF BOREHOLE 213

LOCATION See Figure 3

BORING DATE June 30, 1983

DATUM LWOST

SAMPLER HAMMER WEIGHT 622N DROP 0.76 m

PENETRATION TEST HAMMER WEIGHT DROP

BORING METHOD	SOIL PROFILE		SAMPLES		ELEVATION SCALE	DYNAMIC PENETRATION RESISTANCE, BLOWS/		COEFFICIENT OF PERMEABILITY, k_v , CM./ SEC.				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
	ELEV'N. DEPTH	DESCRIPTION	STRAT. PLT	NUMBER		TYPE	BLOWS 6.3m	SHEAR STRENGTH Cu.	WATER CONTENT, PERCENT					
									1×10 1×10 1×10 1×10 Wp W WL 5 10 15 20					
WASH DRILLING RW CASING	2.07	Very loose to compact red SAND some silt to SILT SAND		1	50 mm OD	2/0.30 m								
	0.00			2	2/0.15 m									
				1										
				2	18									
				3	"	4	-1							
				4	"	16	-3							
				5	"	16	-4							
				6	"	14	-6							
SHARP DRILLING SW CASING	-4.6	Alternating layers of compact red SILTY SAND & stiff red CLAYEY SILT, trace sand and gravel		7	"	26	-8							
				8	"	19/0.15 m	-9							
				9	BXL RC									
				10										
	-8.8	Faintly weathered red SANDSTONE (BEDROCK)		9	BXL RC									
	10													
	10.9													
	10.18													
	12.25													

RQD=0%
 SCR=0%
 TCR=57%

0 5 10
 15 20 25 30
 Percent axial strain at failure

VERTICAL SCALE 1:75

Golder Associates

DRAWN W. J. R.CHECKED W. J. R.

LOCATION See Figure 2

DATUM	LWOST
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0.76 m

PENETRATION TEST HAMMER WEIGHT

DROP

VERTICAL SCALE 1:75

DRAWN WGL

CHECKED By _____

RECORD OF BOREHOLE 211											
LOCATION See Figure 3				BORING DATE June 29, 1983		DATUM LWOST					
SAMPLER HAMMER WEIGHT 622N DROP 0.76 m				PENETRATION TEST HAMMER WEIGHT DROP							
BORING METHOD	ELEV'N. DEPTH	SOIL PROFILE DESCRIPTION	STRAT. PLOT	SAMPLES NUMBER TYPE	BLOWS/0.3m	ELEVATION SCALE	DYNAMIC PENETRATION RESISTANCE, BLOWS/ SHEAR STRENGTH Cu.	NAT.V. - + Q.-● REM.V. - ● U.-○	COEFFICIENT OF PERMEABILITY, K., CM./ SEC. WATER CONTENT, PERCENT	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
WASH DRILLING BW CASING	3.73	Top of wharf				-2					
	0.0	AIR GAP				3					
	1.8					2					
	1.9	Boulder Fill	X	1	50 mm OD	64					
			X	2	"	38					
			X	3	"	50 / 0.762 m					
	-3.0		X	4	BXL RC						
	6.7	Alternating layers of compact red SILTY SAND trace to some gravel & red CLAYEY SILT trace to some sand & gravel	H	5	50 mm OD	13					
			H	6	"	27					
			H	7	"	50 / 0.15 m					
			H	8	BXL RC			RQD=0% SCR=0% TCR=0%			
			H	9	50 mm OD	59					
		H	10	BXL RC				RQD=0% SCP=0% TCR=0%			
		H	11	50 mm OD							
	-10.9	Faintly weathered red SANDSTONE (BEDROCK)	V	12	BXL RC						
	14.6		V			-11					
	13.09		V								
	15.82	End of borehole	V			-12					
VERTICAL SCALE 1:75											
Golder Associates											
DRAWN W.G.W. CHECKED MZ											

DRAWN -- W.G.W. ---
CHECKED -- *my* ---

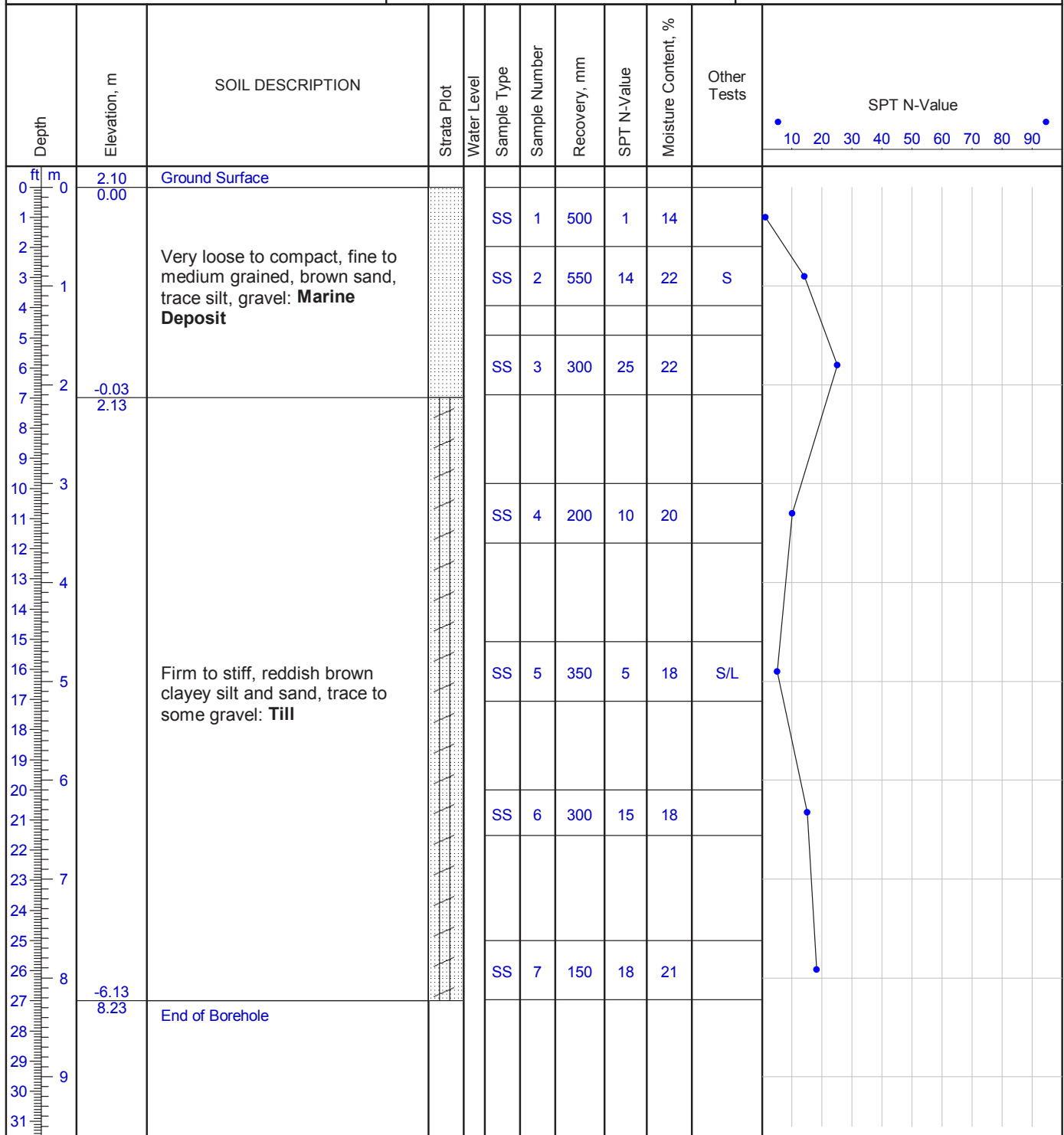
BOREHOLE No. BH 101

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Date Drilled: 08 AUG 2017
Contractor: Logan Drilling Group
Equipment: Track-mounted auger (CME 55)

Location: Proposed Breakwater, Sta. 0+015
Elevation: 2.1
Datum: Low Normal Tide (Chart)

Project No. JE0160
Project: North Lake Harbour
Client: PWGSC



Joose Environmental



BOREHOLE No. BH 102

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Date Drilled: 08 AUG 2017
Contractor: Logan Drilling Group
Equipment: Track-mounted auger (CME 55)

Location: Proposed Breakwater, Sta. 0+033
Elevation: 1.1
Datum: Low Normal Tide (Chart)

Project No. JE0160
Project: North Lake Harbour
Client: PWGSC

Depth	Elevation, m	SOIL DESCRIPTION	Strata Plot	Water Level	Sample Type	Sample Number	Recovery, mm	SPT N-Value	Moisture Content, %	Other Tests	SPT N-Value
0	1.10	Ground Surface									
0	0.00										
1		Very loose to compact, fine to medium grained, brown to greyish brown sand, trace silt, gravel: Marine Deposit			SS	1	500	2	29		
2					SS	2	550	27	22	S	
3											
4											
5	-0.42	Firm to stiff, reddish brown clayey silt and sand, trace to some gravel: Till			SS	3	300	7	18		
6	1.52				SS	4	450	8	17		
7					SS	5	0	5			
8					SS	6	450	15	15	S/A	
9					SS	7	0	15			
10											
11					SS	8	450	10	16		
12					SS	9	550	16	15		
13											
14					SS	10	450	11	16		
15											
16					SS	11	550	10	16		
17					SS	12	450	16	15		
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29	-7.74	End of Borehole									
30	8.84										
31											

Joose Environmental

