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British Columbia
V6Z 0B9
Bid Fax: (604) 775-9381

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
Public Works and Government Services Canada -
Pacific Region
800 Burrard Street, Room 219
800, rue Burrard, pièce 219
Vancouver
British C
V6Z 0B9

Title - Sujet North Apron Remediation	
Solicitation No. - N° de l'invitation EZ897-171552/A	Amendment No. - N° modif. 002
Client Reference No. - N° de référence du client	Date 2016-10-07
GETS Reference No. - N° de référence de SEAG PW-\$PWY-031-7882	
File No. - N° de dossier PWY-6-39177 (031)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-10-24	Time Zone Fuseau horaire Pacific Daylight Saving Time PDT
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: Leung, Janie	Buyer Id - Id de l'acheteur pwy031
Telephone No. - N° de téléphone (604) 666-8228 ()	FAX No. - N° de FAX (604) 775-6633
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: TC - Whitehorse Airport - Whitehorse, YT	

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
EZ897-171552/A

Amd. No. - N° de la modif.
002

Buyer ID - Id de l'acheteur
PWY031

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

File No. - N° du dossier
PWY-6-39177

CCC No./N° CCC - FMS No./N° VME

Les documents français seront disponibles sur demande.

This Amendment #002 is raised to address questions.

Questions and Answers

- 1) Are there any borehole logs available for the site (specifically 20C-MW05-10) preferably with 'n' values?

Please see attached for the borehole logs. We have no Standard Penetration Test "N" blow counts.

- 2) Can you confirm if this work is deemed Airside and whether there are any airside requirements for operations or mandatory experience requirements?

The Contractor's Work will be restricted to the work areas shown on Drawing 5. The Contractor must not encroach on an active runway, taxiway, or apron.

The Contractor must understand and conform to information in the existing Airside Vehicle Operation Permit.

Please see AVOP document under Attachments.

All other terms and conditions remain unchanged.

Project No: 1043-0401

Borehole Log: 20-MW05-10

20-BH05-1

Project: Whitehorse Airport

Client: PWGSC

Logged By: RW

Location: North Apron

Checked By: JBM

SUBSURFACE PROFILE				SAMPLE			Organic Vapour Rdg.						Well Completion Details
Depth (m)	Symbol	Description	Elev. (m)	Number	Type	Recovery	PPM						
							100	300	500	700	900		
ft m		Ground Surface											
0		SAND AND GRAVEL (FILL)		1-1	G								
1		Sand and gravel, some sand, dense, brown, moist											
2		SAND											
3	1	Sand, some silt, dense, brown, moist		1-2	G								
4													
5													
6													
7	2			1-3	G								
8													
9													
10	3			1-4	G								
11				1-5	G								
12													
13	4	CLAYEY SILT		1-6	G								
14		Clayey silt, stiff, grey, wet											
15													
16	5												
17				1-7	G								
18													
19													
20	6												
21		End of Borehole											
22													
23	7												
24													

Flush Mtd

Concrete

Solid Pipe

Sand

Bentonite

Slotted Pipe

Sand

Cap

Caving

Drilled By: Geotech

Hole Dia: 9 cm

Well Dia: 55mm

Drill Method: Geoprobe

Grnd Elev: NA

TOC Elev: NA

Drill Date: 05/08/18

Sheet: 1 of 1



Borehole Log: 3-MW09-15

Project No: 1043-0905

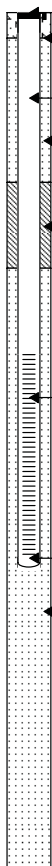
Project: Whitehorse Drilling

Client: PWGSC

Site Location: Whitehorse Airport

Logged By: CM

Checked By: IU

SUBSURFACE PROFILE				SAMPLE		VOC Concentration					Well Completion Details	
Depth	Symbol	Description	Depth/Elev.	Number	Type	%LEL						
						×	25	50	75	×		
						●	100	300	500	700		900
0		Ground Surface										
0		Topsoil										
1		Sand										
2		Sand, loose, brown, dry.										
3		Silt and sand										
4		Silt and sand, stiff, brown, dry to moist.		15-1	G	●	25					
5												
6		Sand										
7		Medium sand, loose, brown, dry to moist.		15-2	G	●	5					
8												
9		Fine sand and trace silt at 2.5m.										
10												
11		Moist at 3m.										
12												
13		Lens of hydrocarbon-rich sand from 3.7 - 3.8m.		15-3	G	×	2				>1000	
14												
15		Silt		15-4	G	●	20					
16		Silt with trace clay, soft, grey, wet.										
17												
18				15-5	G	●	0					
19												
20												
21		End of Borehole										
22												
23												
24												
25												

* denotes sample submitted for laboratory analysis.

Sample 3-MW09-15-3 duplicated as DUP-5.

* denotes sample submitted for laboratory analysis.

Sample 3-MW09-15-3 duplicated as DUP-5.

Drilled By: Geotech

Well Diameter: 2"

Hole Diameter: 4"

Drill Method: Geoprobe

Top of Pipe: 692.9926m

Sheet: 1 of 1

Drill Date: August 28, 2009

Borehole Log: 20C-MW09-13

Project No: 1043-0905

Project: Whitehorse Drilling

Client: PWGSC

Site Location: Whitehorse Airport

Logged By: CM

Checked By: IU

SUBSURFACE PROFILE				SAMPLE		VOC Concentration					Well Completion Details	
Depth	Symbol	Description	Depth/Elev.	Number	Type	%LEL						
						×	25	50	75	×		
						100	300	PPM	500	700		900
ft	m											
0	0	Ground Surface										<div>Cap Concrete</div> <div>Casing</div> <div>Silica Sand</div> <div>Bentonite</div> <div>Silica Sand</div> <div>Screen</div> <div>Cap</div> <div>Native Fill</div>
1	0	Topsoil				0						
2	0	Sand		13-1	G	0						
3	1	Sand with trace gravel, some trace silt, loose, brown, dry.										
4	1	Organics from 1.2 - 1.4m.		13-2	G	0						
5	2											
6	2	Fine sand from 2.4 - 3.4m.										
7	3											
8	3			13-3	G	0						
9	3											
10	3											
11	4	Silt and sand		13-4	G	0						
12	4	Silt and sand, medium density, brown, moist to wet.										
13	4											
14	5	Sand		13-5*	G	0						
15	5	Sand, loose, brown, wet.										
16	5	Silty sand		13-6*	G	4					>1000	
17	5	Silty sand, stiff, brown, wet.				×						
18	6	Sand		13-7*	G	5						
19	6	Sand, loose, black/grey, wet, hydrocarbon odour.		13-8	G							
20	6											
21	7	Silt										
22	7	Silt, sort, brown, wet.										
23	7	End of Borehole										
24												
25												

* denotes sample submitted for laboratory analysis.

Sample 20C-MW09-13-4 duplicated as DUP-4.

Drilled By: Geotech

Well Diameter: 2"

Hole Diameter: 4"

Drill Method: Geoprobe

Top of Pipe: 695.3408m

Sheet: 1 of 1

Drill Date: August 28, 2009

* denotes sample submitted
for laboratory analysis.

Sample 20C-MW09-13-4
duplicated as DUP-4.

Borehole Log: 20C-MW09-14

Project No: 1043-0905

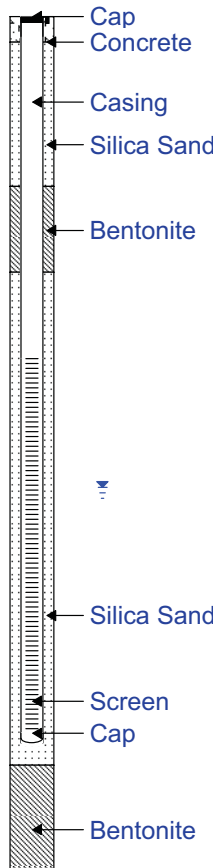
Project: Whitehorse Drilling

Client: PWGSC

Site Location: Whitehorse Airport

Logged By: IL

Checked By: IU

SUBSURFACE PROFILE				SAMPLE		VOC Concentration					Well Completion Details		
Depth	Symbol	Description	Depth/Elev.	Number	Type	×	25	%LEL 50	75	×			
						●	100	300	PPM 500	700		●	900
						ft	m						
0		Ground Surface										 <p>Cap Concrete</p> <p>Casing</p> <p>Silica Sand</p> <p>Bentonite</p> <p>Silica Sand</p> <p>Screen Cap</p> <p>Bentonite</p>	
1		Topsoil											
2		Sand and gravel											
3		Medium sand and gravel, loose, brown, dry.		14-1	G	0							
4													
5													
6													
7													
8				14-2	G	20							
9													
10		Sand											
11		Sand with some silt, stiff, brown, dry.											
12		Silty sand		14-3*	G	5							
13		Silty sand, soft, light brown, wet.											
14		Sand		14-4*	G	160							
15		Medium and fine sand, loose, grey, wet, hydrocarbon odour.											
16				14-5	G	0							
17		Silty sand											
18		Silty sand, stiff, grey, wet.											
19		Soft from 5.2 - 5.5m.		14-6	G	0							
20													
21		End of Borehole											
22													
23													
24													
25													

* denotes sample submitted
for laboratory analysis.

Drilled By: Geotech

Well Diameter: 2"

Hole Diameter: 4"

Drill Method: Geoprobe

Top of Pipe: 693.642m

Sheet: 1 of 1

Drill Date: August 28, 2009

Borehole Log: 20C-MW09-71

Project No: 1043-0907

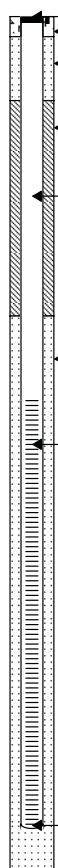
Project: Whitehorse Additional Drilling

Client: PWGSC

Site Location: Whitehorse Airport

Logged By: CM

Checked By: IU

SUBSURFACE PROFILE				SAMPLE		VOC Concentration					Well Completion Details	
Depth	Symbol	Description	Depth/Elev.	Number	Type	%LEL						
						×	25	50	75	×		
						●	100	300	500	700	900	
0		Ground Surface										 <p>Cap Concrete Silica Sand Bentonite Solid PVC Silica Sand Screen Cap</p>
1		Soil and grass										
2		Sand and gravel										
3		Sand and gravel, loose, brown, dry.										
4		Sandy silt		71-1*	G	●	0					
5		Sandy silt, compact/stiff, brown, dry to moist. Unknown odour (sour?) from 1.2 - 1.5m.										
6		Sand		71-2	G	●	5					
7		Fine sand, compact, brown, dry to moist.										
8		Poor core recovery due to large rock at 2.1m.										
9												
10												
11												
12		Sandy silt		71-3*	G	●	0					
13		Sandy silt, compact, brown, dry to moist. Fine sand from 4.0 - 4.1m and 4.1 - 4.2m; compact, brown, moist.										
14												
15												
16		Silt		71-4*	G	●	0					
17		Silt with trace clay, medium stiff, brown, wet.										
18												
19												
20		End of Borehole										
21												
22												
23												
24												
25												

* denotes sample submitted for laboratory analysis.

* denotes sample submitted for laboratory analysis.

Drilled By: Geotech

Well Diameter: 2"

Hole Diameter: 4"

Drill Method: Direct Push

Top of Pipe: 695.6823m

Sheet: 1 of 1

Drill Date: October 30, 2009

Log of Test Pit: 20-05TP-1

Project No.: 1043-0401

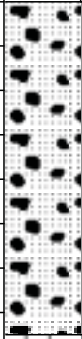
Project: Whitehorse

Client: PWGSC

Location: Whitehorse Airport

Logged By: RJW

Checked By: RJW

SUBSURFACE PROFILE				SAMPLE			Conductivity (mS/cm)	Remarks
Depth (m)	Symbol	Description	Depth/Elev.	Sample Number	Type	Vapour (ppm)		
0		Ground Surface	0.0					
0		SAND AND GRAVEL (FILL) Sand and gravel, some cobbles, loose, brown, moist	0.0	1-1	G			
1								
1.5		SILT Silt, trace organics, trace woody debris, dark brown, stiff, moist	1.5	1-2	G			
1.8		SILT Silt, stiff, grey, moist	1.8	1-3	G			
2								
2.4		End of Test Pit	2.4					
3								
4								
5								

Excavated By: 710B John Deere

Northing: 0

Hole Size: 1m

Method of Excavation: Backhoe

Easting: 0

TOC Elevation: 0

Date of Excavation: Aug. 12, 2005

Sheet: 1 of 1

Log of Test Pit: 20-05TP-2

Project No.: 1043-0401

Project: Whitehorse

Client: PWGSC

Location: Whitehorse Airport

Logged By: RJW

Checked By: RJW

SUBSURFACE PROFILE				SAMPLE			Conductivity (mS/cm)	Remarks
Depth (m)	Symbol	Description	Depth/Elev.	Sample Number	Type	Vapour (ppm)		
0		Ground Surface	0.0					
		SAND (FILL) Gravelly sand, some silt, loose, brown, dry	0.3	2-1	G			
		SILT Silty sand, some sand, stiff, brown, moist	0.6					
1		SAND Silt, some gravel, some silt, stiff, brown, moist		2-2	G			
2								
		SAND Sand, some silt, dense, grey, moist	2.3	2-3	G			
		End of Test Pit	2.6					
3								
4								
5								

Excavated By: 710B John Deere

Northing: 0

Hole Size: 1m

Method of Excavation: Backhoe

Easting: 0

TOC Elevation: 0

Date of Excavation: Aug. 12, 2005

Sheet: 1 of 1

Log of Test Pit: 20-05TP-3

Project No.: 1043-0401

Project: Whitehorse

Client: PWGSC

Location: Whitehorse Airport

Logged By: RJW

Checked By: RJW

SUBSURFACE PROFILE				SAMPLE			Conductivity (mS/cm)	Remarks
Depth (m)	Symbol	Description	Depth/Elev.	Sample Number	Type	Vapour (ppm)		
0		Ground Surface	0.0					
		SAND (FILL) Silty sand, trace gravel, dense, brown, moist		3-1	G			
1				3-2	G			
2		SAND Sand, some organics sand, dense, dark brown, dry to moist	1.7					
3		SAND Sand, trace gravel trace silt, dense, grey/brown, moist	2.4	3-3	G			
4		End of Test Pit	3.6					
5								

Excavated By: 710B John Deere

Northing: 0

Hole Size: 1m

Method of Excavation: Backhoe

Easting: 0

TOC Elevation: 0

Date of Excavation: Aug. 12, 2005

Sheet: 1 of 1