



**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
**Bid Receiving Public Works and Government**  
**Services Canada/Réception des soumissions Travaux**  
**publics et Services gouvernementaux Canada**  
**800 Burrard Street, Room 219**  
**800, rue Burrard, pièce 219**  
**Vancouver**  
**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

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

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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

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

---

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		<b>SAND AND GRAVEL (FILL)</b>		1-1	G								
1		Sand and gravel, some sand, dense, brown, moist											
2													
3	1												
4													
5													
6		<b>SAND</b>		1-2	G								
7	2	Sand, some silt, dense, brown, moist											
8													
9													
10													
11													
12	3			1-3	G								
13													
14													
15				1-4	G								
16				1-5	G								
17													
18	4	<b>CLAYEY SILT</b>		1-6	G								
19		Clayey silt, stiff, grey, wet											
20													
21													
22													
23													
24	5			1-7	G								
25													
26	6												
27													
28													
29	7												
30													
31													
32													
33													
34													
35													
36													
37													
38													
39													
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60													
61													
62													
63													
64													
65													
66													
67													
68													
69													
70													
71													
72													
73													
74													
75													
76													
77													
78													
79													
80													
81													
82													
83													
84													
85													
86													
87													
88													
89													
90													
91													
92													
93													
94													
95													
96													
97													
98													
99													
100													
101													
102													
103													
104													
105													
106													
107													
108													
109													
110													
111													
112													
113													
114													
115													
116													
117													
118													
119													
120													
121													
122													
123													
124													
125													
126													
127													
128													
129													
130													
131													
132													
133													
134													
135													
136													
137													
138													
139													
140													
141													
142													
143													
144													
145													
146													
147													
148													
149													
150													
151													
152													
153													
154													
155													
156													
157													
158													
159													
160													
161													
162													
163													
164													
165													
166													
167													
168													
169													
170													
171													
172													
173													
174													
175													
176													
177													
178													
179													
180													
181													
182													
183													
184													
185													
186													
187													
188													
189													
190													
191													
192													
193													
194													
195													
196													
197													
198													
199													
200													
201													
202													

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

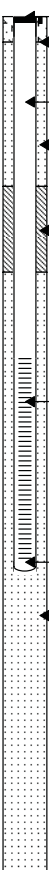
**Project:** Whitehorse Drilling

**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	×	25	%LEL 50	75	×		
						●	100	300	PPM 500	700		900
0 ft 0 m		Ground Surface										
1		<b>Topsoil</b>										
2		<b>Sand</b> Sand, loose, brown, dry.										
3		<b>Silt and sand</b> Silt and sand, stiff, brown, dry to moist.										
4				15-1	G	●	25					
5												
6												
7		<b>Sand</b> 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		<b>Silt</b> Silt with trace clay, soft, grey, wet.		15-4	G	●	20					
16												
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	×			
						●	300	PPM	500	700		900	●
						100	300	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	<b>Topsoil</b>											
2	0	<b>Sand</b>		13-1	G	●							
3	1	Sand with trace gravel, some trace silt, loose, brown, dry.											
4	1	Organics from 1.2 - 1.4m.		13-2	G	●							
5	1												
6	2												
7	2												
8	2	Fine sand from 2.4 - 3.4m.											
9	3			13-3	G	●							
10	3												
11	3												
12	4	<b>Silt and sand</b>		13-4	G	●							
13	4	Silt and sand, medium density, brown, moist to wet.											
14	4												
15	5	<b>Sand</b>		13-5*	G	●							
16	5	Sand, loose, brown, wet.											
17	5	<b>Silty sand</b>		13-6*	G	×				>1000			
18	5	Silty sand, stiff, brown, wet.											
19	6	<b>Sand</b>		13-7*	G	●							
20	6	Sand, loose, black/grey, wet, hydrocarbon odour.		13-8	G								
21	6	<b>Silt</b>											
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	%LEL						
						×	25	50	75	×		
						100	300	PPM	500	700		900
ft	m											
0	0	Ground Surface										
1		Topsoil										
2		Sand and gravel										
3	1	Medium sand and gravel, loose, brown, dry.		14-1	G							
4												
5												
6												
7	2											
8				14-2	G							
9												
10	3	Sand										
11		Sand with some silt, stiff, brown, dry.										
12		Silty sand		14-3*	G							
13	4	Silty sand, soft, light brown, wet.										
14		Sand		14-4*	G							
15		Medium and fine sand, loose, grey, wet, hydrocarbon odour.										
16	5			14-5	G							
17		Silty sand										
18		Silty sand, stiff, grey, wet.										
19		Soft from 5.2 - 5.5m.		14-6	G							
20	6											
21		End of Borehole										
22												
23	7											
24												
25												

\* denotes sample submitted for laboratory analysis.

Cap Concrete

Casing

Silica Sand

Bentonite

Silica Sand

Screen Cap

Bentonite

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: 3265/2>29

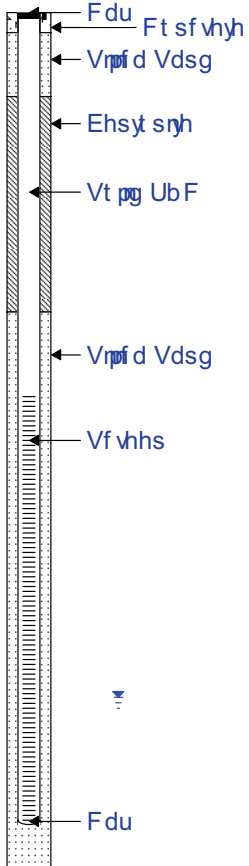
Project: c myhrt wh Dggnyr sdpGvppsl

Client: Uc L VF

Site Location: c myhrt wh Drut vy

Logged By: FP

Checked By: N

SUBSURFACE PROFILE				SAMPLE		b T F Ft sf hsydyt s					c h p F t r u p h y t s Ghydrw	
Ghuym	Vyr et p	Ghwf wuyt s	GhuymHphv0	Sur ehv	Wyuh	%CHO						
						47	72	97	UUP			
						322	522	722	922	>22		
2	2	L vt usg Vuvidf h										
3		Soil and grass										
4		Sand and gravel Vdsg dsq l vdvhp p t wh. evt ws. gvy0										
5	3	Sandy silt Vdsgy wpy ftr udf ywryi. evt ws. gvy yt r t rwy0 a sost ws t gt uv*vt uvC, ivt r 304 / 307r 0		93/3-	G	2						
6												
7												
8	4	Sand l rsh wdsq. ftr udf y evt ws. gvy yt r t rwy0  Ut t vft v hvt vhy guh yt pV h vt fo dy40r 0		93/4	G	7						
9												
32	5											
33												
34												
35	6	Sandy silt Vdsgy wpy ftr udf y evt ws. gvy yt r t rwy0 l rsh wdsq ivt r 602 / 608r dsq 608 / 604r Bftr udf y evt ws. r t rwy0		93/5-	G	2						
36												
37												
38												
39	7	Silt Vpywrymydf h f pely. r hgnur wryi. evt ws. why0		93/6-	G	2						
40												
41												
42												
43		Hsg t i Et vhrnt pn										
44												
45	9											
46												
47												

Gvppng EyAL ht yhf m

c hppGrdr hyhvA4"

Mt pn Grdr hyhvA6"

GvppP hyrt gAGnhf yUuwm

W u t i UnuhA8>708: 45r

VmhhyA3 t i 3

GvppGdyhATf yt ehv52. 422>

## Log of Test Pit: 20-05TP-1

**Project No.:** 1043-0401

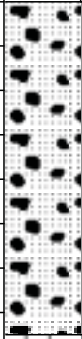
**Project:** Whitehorse

**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		<b>SAND AND GRAVEL (FILL)</b> Sand and gravel, some cobbles, loose, brown, moist	0.0	1-1	G			
1								
1.5		<b>SILT</b> Silt, trace organics, trace woody debris, dark brown, stiff, moist	1.5	1-2	G			
1.8		<b>SILT</b> 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					
		<b>SAND (FILL)</b> Gravelly sand, some silt, loose, brown, dry	0.3	2-1	G			
		<b>SILT</b> Silty sand, some sand, stiff, brown, moist	0.6					
1		<b>SAND</b> Silt, some gravel, some silt, stiff, brown, moist		2-2	G			
2								
		<b>SAND</b> 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					
		<b>SAND (FILL)</b> Silty sand, trace gravel, dense, brown, moist		3-1	G			
1				3-2	G			
2		<b>SAND</b> Sand, some organics sand, dense, dark brown, dry to moist	1.7					
3		<b>SAND</b> 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