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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> Environmental Drilling	
<b>Solicitation No. - N° de l'invitation</b> EZ897-210530/A	<b>Amendment No. - N° modif.</b> 002
<b>Client Reference No. - N° de référence du client</b>	<b>Date</b> 2020-08-07
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWY-036-8801	
<b>File No. - N° de dossier</b> PWY-0-43045 (036)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-08-14</b>	<b>Time Zone Fuseau horaire Pacific Daylight Saving Time PDT</b>
<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> Martin (PWY), Delia	<b>Buyer Id - Id de l'acheteur</b> pwy036
<b>Telephone No. - N° de téléphone</b> (778) 707-2139 ( )	<b>FAX No. - N° de FAX</b> (604) 775-6633
<b>Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:</b> PWGSC - Alaska Hwy Sites - Alaska Highway, BC	

**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 Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur</b>	
<b>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)</b>	
<b>Signature</b>	<b>Date</b>

Solicitation. - N° de l'off. à comm.  
EZ897-210530/A

Amd. No. - N° de la modif.  
002

Buyer ID - Id de l'acheteur  
pwy036

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

File No. - N° du dossier  
PWY-0-43045

CCC No./N° CCC - FMS No/ N° VME

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**Les documents français seront disponibles sur demande.**

**This Amendment #002 is raised to issue the following changes:**

- 1: Incorporate a revised APPENDIX 1 – COMBINED PRICE FORM
- 2: Incorporate Addendum No. 01

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- 1: Previously issued APPENDIX 1 – COMBINED PRICE FORM is now replaced with APPENDIX 1 – COMBINED PRICE FORM (REVISED) dated 07 August 2020

The APPENDIX 1 – COMBINED PRICE FORM (REVISED) dated 07 August 2020 must be used when submitting your bid. Any bid submitted on a previous version of the APPENDIX 1 – COMBINED PRICE FORM will be considered non-compliant and therefore disqualified.

Please see the attached APPENDIX 1 – COMBINED PRICE FORM (REVISED) dated 07 August 2020.

- 2: Please see the attached Addendum No. 01

The addendum will form part of the contract documents.

**All other terms and conditions remain unchanged.**

**APPENDIX 1 – COMBINED PRICE FORM (REVISED) dated 07 August 2020**

- 1) The prices per unit will govern in establishing the Total Extended Amount. Any arithmetical errors in this Appendix will be corrected by Canada.
- 2) Canada may reject the bid if any of the prices submitted do not reasonably reflect the cost of performing the part of the work to which that price applies.

**UNIT PRICE TABLE**

The Unit Price Table designates Work to which a Unit Price Arrangement applies.

- (a) Work included in each item is as described in the referenced specification section.
- (b) The Price per Unit shall not include any amounts for Work that is not included in that unit price Item.

**BASE WORK**

	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit applicable tax(es) extra (PU)	Extended amount (EQ x PU) applicable tax(es) extra
1	01 25 20	Pre-Mobilization Submittals	Lump Sum	1		
2	01 25 20	Mobilization to Starting Site	Lump Sum	1		
3	01 25 20	Mobilization Between Drilling Sites	Km	1,800		
4	01 25 20	Demobilization from Final Drilling Site	Lump Sum	1		
5	01 25 20	Sustainment	Person per Day	90		
6	01 25 20	Daily Travel all crew and vehicles	Km	4,500		
7	01 25 20	Closeout Submittals	Lump sum	1		
8	01 31 19	Tailgate Safety Meetings	hours	45		
9	<b>33 21 10</b>	<b>Drill Rig Operation</b>				
9.1	Subsection 2.1.2.	Tracked Rotary Drill Unit	Hour	220		
9.2	Subsection 2.1.3.	Sonic Unit	Hour	220		
10	<b>33 21 10</b>	<b>Drilling Supplies</b>				
10.1	Subsection 2.2.	PVC Casing	m	1,524		
10.2	Subsection 2.2.	PVC Screen	m	300		
10.3	Subsection 2.2.	Bottom Well Points	Each	60		
10.4	Subsection 2.2.	J-Plugs	Each	60		
10.5	Subsection 2.2.	Filter Sand (25 kg bag)	Each	300		
10.6	Subsection 2.2.	Backfill Sand (25 kg bag)	Each	1,500		
10.7	Subsection 2.2.	Bentonite Chips (25 kg bag)	Each	200		

	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit applicable taxe(s) extra (PU)	Extended amount (EQ x PU) applicable taxe(s) extra
10.8	Subsection 2.2.	Bentonite Granules (25 kg bag)	Each	50		
10.9	Subsection 2.4.	Concrete Stone Mix (25 kg bag)	Each	75		
10.10	Subsection 2.5.	Flush mount boxes	Each	50		
10.11	Subsection 2.5.	Steel sub-surface well protector	Each	50		
10.12	Subsection 2.5.	Stick up well protectors	Each	50		
11	33 21 10 Subsection 3.13.	Install Vapour Probes	Each	50		
12	33 21 10 Subsection 2.7.	Soil Cuttings Barrels	Each	60		
13	33 21 10 Subsection 2.6	Soil Cuttings Bags	Each	40		
14	33 21 10 Subsection 2.7.	Purge Water Barrels	Each	30		
15	<b>33 21 10</b>	<b>Pick up and disposal of Soil Cuttings Barrels</b>				
15.1	Subsection 3.8.	Disposal of Barrel of RL+ Contaminated Soil	Each	30		
15.2	Subsection 3.8.	Disposal of Barrel of CL/IL++ Contaminated Soil	Each	30		
16	<b>33 21 10</b>	<b>Pick up and disposal of Soil Cuttings Bags</b>				
16.1	Subsection 3.8.	Disposal of Bag of RL+ Contaminated Soil	Each	20		
16.2	Subsection 3.8.	Disposal of Bag of CL/IL++ Contaminated Soil	Each	20		
17	33 21 10 Subsection 3.8.	Pick up and disposal of Purge Water Barrels	Each	30		
<b>TOTAL EXTENDED AMOUNT BASE WORK (A)</b> Excluding applicable taxe(s)						

Items 18-30 shown are an optional addition to this tender package. All bids must include the aforementioned lines. Any bid without the inclusion of these lines will be considered non-compliant and therefore disqualified.

The Contractor grants to Canada the irrevocable option to acquire the Work identified below, and as described in the Specifications and Drawings, under the same conditions and at the prices and/or rates stated. The Contracting Authority may exercise the option before the expiry of the Contract by sending a written notice to the Contractor.

Unit Rates for Optional Work items must match Unit Rates for corresponding Base Work items.

### OPTIONAL WORK (REVISED) dated 07 August 2020

	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit applicable tax(e)s extra (PU)	Extended amount (EQ x PU) applicable tax(e)s extra
18	01 25 20	Mobilization Between Drilling Sites	Km	450		
19	01 25 20	Sustainment	Person per day	22		
20	01 25 20	Daily Travel all crew and vehicles	Km	1,100		
21	01 31 19	Tailgate Safety Meetings	hours	12		
22	<b>33 21 10</b>	<b>Drill Rig Operation</b>				
22.1	Subsection 2.1.2.	Tracked Rotary Drill Unit	Hour	80		
22.2	Subsection 2.1.3.	Sonic Unit	Hour	100		
23	<b>33 21 10</b>	<b>Drilling Supplies</b>				
23.1	Subsection 2.2.	PVC Casing	m	380		
23.2	Subsection 2.2.	PVC Screen	m	75		
23.3	Subsection 2.2.	Bottom Well Points	Each	20		
23.4	Subsection 2.2.	J-Plugs	Each	20		
23.5	Subsection 2.2.	Filter Sand (25 kg bag)	Each	75		
23.6	Subsection 2.2.	Backfill Sand (25 kg bag)	Each	375		
23.7	Subsection 2.2.	Bentonite Chips (25 kg bag)	Each	50		
23.8	Subsection 2.2.	Bentonite Granules (25 kg bag)	Each	14		
23.9	Subsection 2.4.	Concrete Stone Mix (25 kg bag)	Each	75		
23.10	Subsection 2.5.	Flush mount boxes	Each	10		
23.11	Subsection 2.5.	Steel sub-surface well protector	Each	10		
23.12	Subsection 2.5.	Stick up well protectors	Each	10		
24	33 21 10 Subsection 3.13.	Install Vapour Probes	Each	10		

	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit applicable tax(e)s extra (PU)	Extended amount (EQ x PU) applicable tax(e)s extra
25	33 21 10 Subsection 2.7.	Soil Cuttings Barrels	Each	15		
26	33 21 10 Subsection 2.6	Soil Cuttings Bags	Each	10		
27	33 21 10 Subsection 2.7.	Purge Water Barrels	Each	8		
28	<b>33 21 10</b>	<b>Pick up and disposal of Soil Cuttings Barrels RL+</b>				
28.1	Subsection 3.8.	Disposal of Barrel of RL+ Contaminated Soil	Each	8		
28.2	Subsection 3.8.	Disposal of Barrel of CL/IL++ Contaminated Soil	Each	7		
29	<b>33 21 10</b>	<b>Pick up and disposal of Soil Cuttings Bags</b>				
29.1	Subsection 3.8.	Disposal of Bag of RL+ Contaminated Soil	Each	5		
29.2	Subsection 3.8.	Disposal of Bag of CL/IL++ Contaminated Soil	Each	5		
30	33 21 10 Subsection 3.8.	Pick up and disposal of Purge Water Barrels	Each	8		
<b>TOTAL EXTENDED AMOUNT OPTIONAL WORK (B)</b>						
Excluding applicable tax(e)s						

<b>TOTAL BID AMOUNT (A + B)</b>	
Excluding applicable tax(e)s	

# Addendum #01

Date: August 07, 2020

Project Name: Environmental Drilling, Alaska Highway Sites  
Project Number: EZ897-210530/A

The following changes in the tender documents are effective immediately. This Addendum will form part of the contract documents.

Bidder Questions:

**Question #1:** Based on review of the Summary of Work Specifications: Section 1.4, Line number 1.4.1.2.3 includes soil sampling (see below). There was no further information contained in the tender documents related to soil sampling. Can you provide guidance on soil sampling requirements?

#### 1.4. Items covered in Specifications

1.4.1. Work to be performed under the Contract includes, but is not limited to, the following items, including all ancillary Work, covered further in the Contract:

1.4.1.1. Mobilization of all equipment to a Starting Site as indicated. Onward movement to a series of sites as indicated which will be drilled as they are prepared and not in a linear geographical order. The drilling portion of the work will end at the Final Drilling Site as indicated.

1.4.1.2. Environmental drilling:

1.4.1.2.1. Borehole drilling.

1.4.1.2.2. Well installation and completion.

1.4.1.2.3. Soil sampling.

1.4.1.2.4. Vapour probe installation.

1.4.1.3. Management of contaminated soil and water

1.4.1.3.1. Containment and disposal of contaminated soil cuttings:

1.4.1.3.2. Supply of barrels for containment of contaminated water.

1.4.1.3.3. Disposal of contaminated groundwater purged from wells by others during well sampling following well installation.

1.4.1.3.4. Material identified, by Departmental Representative, as not contaminated may be used as backfill.

**Answer #1:** Soil sampling method and interval will be specified by the Departmental Representative prior to and during drilling (see para 3.1 on page 58 of 61). Sampling will be paid as part of Drill Rig Operation (see para 3.2 on page 59 of 61). Specific Sampling requirements are specified in Para 3.10 on page 60 of 61) sampling methods were not described in the specification documents. Sampling methods are drilling industry standard methods and include 50mm and 75mm nominal diameter split spoon's, auger flight samples and sonic cores.

**Question #2:** The specifications describes "other contracts" the may be currently in progress at these Sites (See 1.7 below). Will additional environmental consulting services and/or other future contracts be awarded? Is this related to question #1 above and is there a separate tender document that will be issued or has been issued for these sites that contain environmental consulting services?

**1.7. Other Contracts**

- 1.7.1. Other contracts may currently be in progress at Sites.
- 1.7.2. Other contracts may include:
  - 1.7.2.1. Environmental and other consultants.
  - 1.7.2.2. Owners and operators of active sites.
  - 1.7.2.3. Site users as identified in Contract Documents.
- 1.7.3. Further contracts may be awarded while the Contract is in progress.
- 1.7.4. Cooperate with other contractors in carrying out their respective works and carry out directions from Departmental Representative.
- 1.7.5. Coordinate Work with that of other contractors. If any part of Work under the Contract depends on its proper execution or result upon Work of another contractor, report promptly to Departmental Representative, verbally and in writing, any defects which can interfere with proper execution of this Work.

**Answer #2:** This clause refers to other work related to or independent of this contract that may be occurring nearby or on the same site, we are asking the successful bidder to cooperate accordingly to ensure all parties are able to complete their required tasks.

**Question #3:** As part of the Sonic Drilling Unit Price, will the contractor be expected to provide the water required for drill operations?

**Answer #3:** Yes, as part of the bid price for line items 9.2 and 22.2, the successful bidder will be required to provide and transport all required water to site for the operation. The Departmental Representative may provide a water license withdrawal permit for various locations along the Alaska Highway to assist in procuring the water.

**Question #4:** Can we qualify, modify or place conditions on items in our bid?

**Answer #4:** No. ANY qualifiers, modifications or conditions on items in bids will result in disqualification of the bid.

**Specification Section 33 21 10 Environmental Drilling**

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Part 2 – Products

**Delete:**

- 2.1.2. 4x4 Truck Mounted Rotary Drill Unit:

**Replace with:**

- 2.1.2. Tracked Rotary Drill Unit

Delete Paragraphs:

- 2.1.2.2. Wheeled or truck mounted.
- 2.1.2.3. Capable of 4x4 operation.
- 2.1.2.6. Tower not less than 9.1 m (30ft).

\*\*\*\*\*End of Addendum\*\*\*\*\*