



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

**Bid Receiving - PWGSC / Réception des soumissions -
TPSGC**
5th Floor
10025 Jasper Ave
Edmonton
Alberta
T5J 1S6
Bid Fax: (780) 497-3510

**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/Travaux
publics et Services gouvernementaux Canada
Suite 1650
635 - 8th Ave. S.W.
Bureau 1650
635 - 8e avenue, SO
Calgary
Calgary
Alberta
T2P 3M3

Title - Sujet Soil Remediation	
Solicitation No. - N° de l'invitation EW702-193283/A	Amendment No. - N° modif. 003
Client Reference No. - N° de référence du client EW702-193283	Date 2019-04-25
GETS Reference No. - N° de référence de SEAG PW-\$GMP-015-6901	
File No. - N° de dossier GMP-8-41137 (015)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-05-02	Time Zone Fuseau horaire Mountain Daylight Saving Time MDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Bilous, Isabelle	Buyer Id - Id de l'acheteur gmp015
Telephone No. - N° de téléphone (780) 782-8714 ()	FAX No. - N° de FAX (780) 497-3510
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

This amendment 003 is raised to modify RFI EW702-193283/A as follows:

REVISED CLOSING DATE OF: May 2, 2019

Under Stage I Scope of Work, DELETE:

Provide notification of interest to submit an information package by April 26, 2019.

INSERT:

Provide notification of interest to submit an information package by May 2, 2019.

Questions and Answers:

Question 1: Does the 20-page limit for the response include resumes of personnel?

Answer 1: Resumes are not required as part of the submission; in accordance with Stage I Scope of Work, "Promotional or supporting information may be appended to the submission but will not be evaluated."

Question 2: The arsenopyrite ore that was roasted to remove the sulfur probably retained a significant quantity of iron capable of binding the arsenic. What are the iron concentrations in the soil?

Answer 2: Correct. The average concentration of total iron in shallow soil surrounding the former Roaster is approximately 48,000 mg/kg.

Question 3: Are there ferrous rich residual materials on site?

Answer 3: Yes, but not accessible. Roaster calcine is the primary iron rich by-product (residual) of the roasting process. This material has primarily been co-disposed with tailings. A former calcine disposal area is situated northwest of the former Roaster; however, these materials are buried beneath fill and are not readily accessible.

Question 4: What has been established with respect to the speciation of the arsenic in the soil to be managed?

Answer 4: Arsenic speciation testing of the shallow soil to be managed has not been completed. Arsenic speciation testing has been completed on shallow soil samples collected regionally within undeveloped areas (i.e., forest, wetland, bedrock crevasses). This work has confirmed the historical operation of the Roaster as the source of regional soil quality impacts.

Question 5: Has X-ray crystallography been performed to determine the different forms of arsenic (oxides, carbonate, sulfide, etc.) that are present? We suppose mostly oxides after the roasting process, but it would be preferable to do the exercise.

Answer 5: Arsenic speciation testing of the shallow soil to be managed has not been completed. Arsenic speciation testing has been completed on shallow soil samples collected regionally within undeveloped areas (i.e., forest, wetland, bedrock crevasses). Advanced mineralogy techniques have included using the Mineral Liberation Analyzer (MLA) to characterize local and regional soil samples. This soil quality assessment work has identified a range of arsenic-hosting species including arsenic trioxide (As₂O₃), arsenopyrite, arsenic sulfide (likely realgar), and roaster-generated iron oxides with arsenic.

Question 6: Are the clean-up objectives based on leachate concentrations or total concentrations?

Answer 6: The remediation criteria is based on the GNWT ENR industrial land use total arsenic concentration criteria of 340 mg/kg.

Solicitation No. – N° de l'invitation
EW702-193283/A

Amd. No. – N° de la modif
003

Buyer ID – ID de l'acheteur
gmp015

Client Ref No. – N° de réf/ du client
EW702-193283

File No. – N° du dossier
GMP-8-41137 (015)

Question 7: Has arsenic been analyzed in the various grain size distribution cuts?

Answer 7: No.

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.