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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

Title - Sujet ICP-MS	
Solicitation No. - N° de l'invitation K8A70-139006/A	**Amendment No. - N° modif.** 002
Client Reference No. - N° de référence du client K8A70-139006	**Date** 2013-08-22
GETS Reference No. - N° de référence de SEAG PW-$$PV-916-63078	
File No. - N° de dossier pv916.K8A70-139006	**CCC No./N° CCC - FMS No./N° VME**
Solicitation Closes - L'invitation prend fin **at - à 02:00 PM** **on - le 2013-09-04**	**Time Zone** **Fuseau horaire** Eastern Daylight Saving Time EDT
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes **Plant-Usine:** ☐ **Destination:** ☐ **Other-Autre:** ☑	
Address Enquiries to: - Adresser toutes questions à: Emond, Linda A.	**Buyer Id - Id de l'acheteur** pv916
Telephone No. - N° de téléphone (819) 956-4014 ( )	**FAX No. - N° de FAX** (819) 956-3814
Destination - of Goods, Services, and Construction: **Destination - des biens, services et construction:**	

Vendor/Firm Name and Address
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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**

Issuing Office - Bureau de distribution

Scientific, Medical and Photographic Division / Division de l'équipement scientifique, des produits photographiques et pharmaceutiques
11 Laurier St./ 11 rue, Laurier
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Gatineau, Québec K1A 0S5

This amendment is raised to modify the Request for Porposal (RFP) document and to publish all answers to the questions received as of August 12th, 2013.

Annex B - Mandatory Specifications for Inductively Couples Plasma-Mass Spectrometer

19. Performance Specifications

J. Sensitivity

Delete:

Use whichever mode gives the best results, but please report the mode used for each Isotope. Set up with oxides < 2.5 % RSD, and double charged < 3.0% RSD.

Insert:

Use whichever mode gives the best results, but please report the mode used for each isotope. Set up with oxides < 2.5 % RSD, and double charged < 3.0% RSD. Separate analysis for each isotope is permitted"

All other terms and conditions of the Solicitation remain the same.

QUESTIONS AND ANSWERS

Q.1 j) Sensitivity

Use whichever mode gives the best results, but please report the mode used for each

isotope. Set up with oxides < 2.5 % RSD, and double charged < 3.0% RSD.

· 9Be > 3 M cps /ppm (mega counts per secound/parts per million)
· 24Mg > 20 M cps/ppm
· 68Zn > 80 M cps/ppm
· 107Ag > 200 M cps/ppm
· 115In > 50 M cps/ppm
· 238U > 40 M cps/ppm

Enquiry:

Indium is set at 115In >50 whereas 107Ag is > 200 and 68Zn is 80. This is not possible due to the abundance and ionization potential of Zn and Ag compared to In. In will always be higher than those two masses.

	Mass	Ionization Potentiel (EV)	Abundance (%)
In	115	5.786	95.7
Zn	68	9.394	18.8
Ag	107	7.576	51.8

The lower the IP the greater the sensitivity. Also the greater the abundance of the isotope the greater the sensitivity. Therefore both Zn and Ag will have less counts compared to In.

Is this request accurate, and if changes can be made, as getting a stronger signal (cps) from Zn and Ag than In will be impossible.

A.1 The real issue is a miss-understanding of the specification wording – thinking that it should be one set of analysis or one instrument method that works for all the elements listed.

Our wording is: "Use whichever mode gives the best results, but please report the mode used for each isotope. Set up with oxides < 2.5 % RSD, and double charged < 3.0% RSD."

Perhaps it would be clearer to say: "Use whichever mode gives the best results, but please report the mode used for each isotope. Set up with oxides < 2.5 % RSD, and double charged < 3.0% RSD. Separate analysis for each isotope is permitted"

They do not have to have one analysis that works for all elements. They wouldn't be able to maximize the sensitivity that way for each isotope and I guess that's why he/she thinks there will be a problem meeting these specs if trying to analyze Zn, In and Ag together.