



By mail to :

Parks Canada Agency Bid Receiving Unit
National Contracting Services
111 Water Street East
Cornwall ON K6H 6S2

QUESTIONS AND ANSWERS NO. 1

QUESTIONS ET RÉPONSES NO 1

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Offer remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'offre demeurent les mêmes.

Issuing Office - Bureau de distribution :

Parks Canada Agency
National Contracting Services
111 Water Street East
Cornwall ON K6H 6S2

Title - Sujet : Acquisition of high-resolution digital aerial photography and airborne Lidar data	
Solicitation No. - N° de l'invitation : 5P300-19-0081-A	Date : June 6, 2019
Amendment No. - N° de modification : N/A	
Client Reference No. - N° de référence du client : 10190113	
GETS Reference No. N° de reference de SEAG : PW-19-00876144	

Solicitation Closes - L'invitation prend fin : At - à : 2 :00 p.m. On - le : June 18, 2019	Time Zone - Fuseau horaire EDT
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F.O.B. - F.A.B. :
Plant - Usine : Destination : Other - Autre :

Address Enquiries to - Adresser toutes demande de renseignements à : Céline Morin

Telephone No. - N° de telephone : 613-938-5940	Fax No. -N° de télécopieur : S.O.	Email Address – Couriel : Celine.morin@canada.ca
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Destination of Goods, Services, and Construction - Destination des biens, services, et construction :
Parks Canada
Mingan Archipelago National Park Reserve
130 rue de la Digue
Havre-Saint-Pierre QC G0G 1P0

TO BE COMPLETED BY THE BIDDER - À REMPLIR PAR LE SOUMISSIONNAIRE

Vendor/ Firm Name - Nom du fournisseur/ de l'entrepreneur :	
Address - Adresse :	
Telephone No. - N° de telephone :	Fax No. - N° de télécopieur :
Name of person authorized to sign on behalf of the Vendor/Firm Nom de la personne autorisée a signer au nom du fournisseur/ de l'entrepreneur	
Signature :	Date :

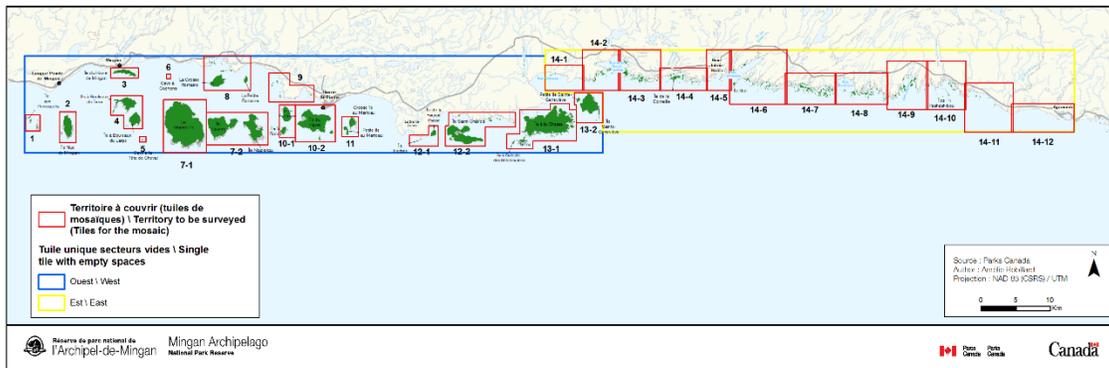
The purpose of this document is to answer questions from bidders.

QUESTIONS AND ANSWERS NO. 1

1. Production of single Orthomosaics and of orthomosaics with no blank areas:

- From our understanding, the two single orthomosaics (page 31 of the Statement of Work) are two orthomosaics (one encompassing sectors 1 to 13-2 and the other one, sectors 14-1 and 14-2) in which the spaces between the different sectors are blank. Is that correct?

Answer: No. *The first orthomosaic includes tiles 1 to 13-1 (sector West) and the other one, tiles 14-1 to **14-12** (Sector East). The areas between the tiles (sectors) are blank.*



- The two continuous colour orthomosaics (page 32 of the Statement of Work) are the same as above except that the blank areas between the sectors are filled ... but with which images? Do you want an estimate including the images acquisition between the different sectors?

Answer: *Yes, images acquisition, colour and shade harmonization and orthomosaicing.*

2. Control points:

- Section 3.2.2 (page 26) states that “Parks Canada” will put in place on the ground a limited number of control points for the flyover. However, in section 3.5 (page 36), control points are not listed as materials provided by Parks Canada. Will Parks Canada provide the control points coordinates to the Contractor?

Answer: *Yes.*



- b. In Table 3, List of auxiliary data included in deliverables (page 42), control points and check points are mentioned. Will those control points and check points be provided by Parks Canada or will the Contractor have to acquire those field controls?

Answer: Same answer as for 2a. As needed and depending on the area covered for LiDAR data acquisition, the Contractor will be responsible for taking additional control points in order to provide quality data.

3. Format of aerial photographs:

On page 21 of the Statement of Work, it is mentioned that the images must be saved in TIFF format, as non-compressed, tiled pyramids. What is the format of the tiles?

Answer: TIFF format, as non-compressed, must be tiled and pyramids built. The orthophotos and orthomosaics must be saved in GeoTIFF and .ECW format and be tiled, pyramids-built and not compressed.

4. Test tile:

What is the format of the “Test tile” (page 30 for the aerial photograph and page 43 for the LiDAR) required?

Answer: Aerial photograph: The image must be pre-oriented (top of the images must be North) and must not require any adjustment before being used. The images must be saved in TIFF format, as non-compressed, must be tiled and pyramids-built.

LiDAR: LAS 1.4 R-13, Point data record format 6.

5. DIGITAL TERRAIN MODELS (DTM):

Is the digital terrain model (DTM) required in section 5 for images orthorectification purposes or will it be used for other purposes?

Answer: Yes, it will be used for images orthorectification as well as topographic analysis and others.

6. Submission of bids :

Must Section II (Financial Bid) be placed in a separate envelope other than the envelope containing Sections I and III (Technical Bid and Certifications)?

Answer : YES

Can the three sections be placed on the same USB key?

Answer : YES



7. In sections 3.2.3, a and b, it is required to produce orthophotos and orthomosaics using the 2019 photos but with the 2009 digital terrain models. It is mentioned that the orthophotos must be superimposed as perfectly as possible on the 2009 orthophotos. It is also mentioned that the pixels must be of the same size and in the same position as the orthophotos from 2009. What is required is technically impossible. If ground elevation has changed from 2009 to 2019, images rectification of the 2019 based on the 2009 DTM will produce distortion and inevitably a shift of the objects on the photos in x and y. Therefore, objects visible on two consecutive orthophotos will not be superimposed.

Could you please indicate for what use the orthophotos are intended? We could recommend an alternative to reach your goal with realistic techniques.

Answer: The orthophotos will be used for change detection projects with time. They will be compared to our historical orthophotos (4 series: 1933, 1967 and 1988) that are superimposed to the 2009 orthophotos.

8. Can you provide the shapefile of the limit in Annex 2 of the Statement of Work, mentioning the East and West sectors?

Answer : The .shp « Limites_Ouest_Est_RPNAM » is an approximate limit. Suppliers may consult the metadata for more details. The idea is to have a unique orthomosaic for the West sector covering tiles 1 to 13-2 and a second for the East sector, covering tiles 14-1 to 12-2.