RETURN BIDS TO: RETOURNER LES SOUMISSIONS À :

Bid Receiving/Réception des soumissions

Procurement Hub | Centre d'approvisionnement Fisheries and Oceans Canada | Pêches et Océans Canada 301 Bishop Drive | 301 promenade Bishop Fredericton, NB, E3C 2M6

<u>Email / Courriel</u>: <u>DFO.Tenders-Soumissions.MPO@dfo-mpo.gc.ca</u>

REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

Proposal to: Fisheries and Oceans Canada

We hereby offer to sell to His Majesty the King in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods and services listed herein and on any attached sheets at the price(s) set out therefor.

Proposition à : Pêches et Océans Canada

Nous offrons par la présente de vendre à Sa Majesté le Roi du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux appendices ci-jointes, les biens et les services énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Signature

| Title / Titre Aerial photos Lower of the St. Lawrence | Cote Nord and | I Shore | Date August 28, 2023 | | | |
|---|------------------|-----------|--|--|--|--|
| Solicitation No. / N° de l'invitation 30004592 | | | | | | |
| Client Reference N 30004592 | o. / No. de réfe | érence d | u client(e) | | | |
| Solicitation Closes | / L'invitation | prend fir | 1 | | | |
| At /à: 14:00 | | | | | | |
| EDT (Eastern Daylig | ght Time) / HAE | (Heure | Avancée de l'Est) | | | |
| On / le: Septembr | e 12, 2023 | | | | | |
| F.O.B. / F.A.B. Destination Taxes See herein — Voir ci-inclus Duty / Droits See herein — Voir ci-inclus | | | | | | |
| Destination of Goo services See herein — Voir of | | es / Dest | tinations des biens et | | | |
| Instructions See herein — Voir o | ci-inclus | | | | | |
| Address Inquiries Adresser toute der Louise Martel | | eigneme | ents à: | | | |
| Contracting Speciali Email / Courriel: | ist | | | | | |
| Louise.Martel@dfo- | mpo.gc.ca | | | | | |
| Delivery Required exigée See herein — Voir o | | Deliver | y Offered / Livraison ée | | | |
| Vendor Name, Add adresse et représe | | | ve / Nom du vendeur, e l'entrepreneur | | | |
| Telephone No. / No téléphone | o. de | Facsim | ile No. / No. de télécopieu | | | |
| | | i i | | | | |

Date

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PART 1 - GENERAL INFORMATION

1.1 Security Requirements

No Security Requirement, escort required at DFO site(s), except for public zones.

1.2 Statement of Work

The Contractor must perform the Work in accordance with the Statement of Work at Annex "A".

1.3 Procurement Strategy for Indigenous Business

1.3.1 Conditional Set-Aside under the Federal Government Procurement Strategy for Indigenous Business (PSIB)

This is an open tender. However, it will be conditionally set-aside under the Government of Canada's Procurement Strategy for Indigenous Business (PSIB) if two or more bids have been received by Indigenous businesses who are certified under the Procurement Strategy for Indigenous Business (PSIB) criteria and who may be listed in the Government of Canada's Indigenous Business Directory (https://www.sac-isc.gc.ca/eng/1100100033057/1610797769658).

If your Indigenous business is not yet registered in the Indigenous Business Directory, please do so at the link provided above. If bids from two or more Indigenous businesses are compliant with the terms of the Request for Proposal, the contracting authority will limit the competition to those Indigenous businesses and will not consider bids from any non-Indigenous businesses that may have been submitted.

If the bids from the Indigenous businesses are found to be non-compliant or non-responsive or are withdrawn, such that fewer than two compliant bids from Indigenous businesses remain, bids from all of the non-Indigenous businesses that had submitted bids will then be considered by the contracting authority.

1.4 Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing or by telephone.

1.5 Trade Agreements

The requirement is subject to the Canadian Free Trade Agreement (CFTA).

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

As this solicitation is issued by Fisheries and Oceans Canada (DFO), any reference to Public Works and Government Services Canada or PWGSC or its Minister contained in any term, condition or clause of this solicitation, including any individual SACC clauses incorporated by reference, will be interpreted as reference to DFO or its Minister.

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (https://buyandsell.gc.ca/policy-andquidelines/standard-acquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2022-03-29) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days Insert: 120 days

2.2 **Submission of Bids**

Bids must be submitted by the date, time and place indicated on page 1 of the bid solicitation.

Due to the nature of the bid solicitation, bids transmitted by facsimile to DFO will not be accepted.

2.3 **Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than 7 calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

2.4 **Applicable Laws**

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Quebec.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

2.5 **Bid Challenge and Recourse Mechanisms**

- (a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.
- (b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's Buy and Sell website, under the heading "Bid Challenge and Recourse Mechanisms" contains information on potential complaint bodies such as:
 - Office of the Procurement Ombudsman (OPO)
 - Canadian International Trade Tribunal (CITT)

The Office of the Procurement Ombudsman (OPO) was established by the Government of Canada to provide an impartial, independent venue for Canadian bidders to raise complaints regarding the award of certain federal contracts under \$30,300 for goods and \$121,200 for services. If you have concerns regarding the award of a federal contract below these dollar amounts, you may contact OPO by e-mail at boa.opo@boa-opo.gc.ca, by telephone at 1-866-734-5169, or by web at www.opo-boa.gc.ca.

(c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

Canada requests that the Bidder submit <u>all</u> its **email** bid in separately saved sections as follows and <u>prior to the bid closing date, time and location</u>:

Section I: Technical Bid (one soft copy in PDF format)
Section III: Financial Bid (one soft copy in PDF format)
Certifications (one soft copy in PDF format)

Important Note:

The maximum size per email (including attachments) is limited to 10MB. If the limit is exceeded, your email might not be received by DFO. It is suggested that you compress the email size to ensure delivery. Bidders are responsible to send their proposal and to allow enough time for DFO to receive the proposal by the closing period indicated in the RFP. Emails with links to bid documents will not be accepted.

For bids transmitted by email, DFO will not be responsible for any failure attributable to the transmission or receipt of the email bid. DFO will send a confirmation email to the Bidders when the submission is received.

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment in Annex "B"

3.1.2 Exchange Rate Fluctuation

C3011T (2013-11-06), Exchange Rate Fluctuation

3.1.3 SACC Manual Clauses

Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 **Evaluation Procedures**

- Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical, financial, and evaluation criteria.
- An evaluation team composed of representatives of Canada will evaluate the bids. (b)

4.1.1 **Technical Evaluation**

4.1.1.1 Mandatory Technical Criteria

Refer to annex "C"

4.1.1.2 Point Rated Technical Criteria

Refer to annex "C"

4.1.2 Financial Evaluation

SACC Manual Clause A0220T (2014-06-26), Evaluation of Price-Bid

SACC Manual Clause A0220T (2013-04-25):

The maximum funding available for the Contract resulting from the bid solicitation is \$300,000.00 (Applicable Taxes extra). Bids valued in excess of this amount will be considered non-responsive. This disclosure does not commit Canada to pay the maximum funding available.

4.2 **Basis of Selection**

4.2.1 Highest Combined Rating of Technical Merit and Price within Budget- A0027T (2022-12-01)

- 1. To be declared responsive, a bid must:
 - a. comply with all the requirements of the bid solicitation; and
 - b. meet all mandatory criteria; and
 - c. obtain the required minimum of 20 points per flight for each of the technical evaluation criteria which are subject to point rating. The rating is performed on a scale of **30** points per flight per point rated criteria.
- 2. Bids not meeting (a) or (b) or (c) will be declared non-responsive.
- 3. The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 60% for the technical merit and 40% for the price.
- 4. To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained divided by the maximum number of points available multiplied by the ratio of 60 %.

- 5. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and the ratio of 40 %.
- 6. For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.
- 7. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price The eligible bid with the highest combined score for technical merit and the award for Option 2 if the price is below the maximum funding will be recommended for contract award. If Option 2 does not meet the maximum funding requirement, the eligible bid with the highest combined score for technical merit and the award for Option 1 if the price is below the maximum funding will then be recommended for contract award.

The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 60/40 ratio of technical merit and price, respectively. The total available points equal 135 and the lowest evaluated price is \$45,000 (45).

| Basis of Selection - Highest Combined Rating Technical Merit (60%) and Price (40%) | | | | | | |
|--|--------------------------|----------------------|---------------------|---------------------|--|--|
| | | Bidder 1 | Bidder 1 Bidder 2 | | | |
| Overall Technical Score | | 115/135 | 89/135 | 92/135 | | |
| Bid Evaluated | d Price | \$55,000.00 | \$50,000.00 | \$45,000.00 | | |
| Calculations | Technical Merit Score | 115/135 x 60 = 51.11 | 89/135 x 60 = 39.56 | 92/135 x 60 = 40.89 | | |
| Gaiodiations | Pricing Score | 45/55 x 40 = 32.73 | 45/50 x 40 = 36.00 | 45/45 x 40 = 40.00 | | |
| Combined Rating | | 83.84 | 75.56 | 80.89 | | |
| Overall Rating | | 1st | 3rd | 2nd | | |

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions – Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the <u>Forms for the Integrity Regime</u> website (http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html), to be given further consideration in the procurement process.

5.1.2 Additional Certifications Required with the Bid

5.1.2.1 Conditional Set-aside for Indigenous Business

If requested by the Contracting Authority, the Bidder must provide the following certification for each owner who is Indigenous:

| 1. | I am an owner of (insert name of business), and an Indigenous person, as defined in Annex 9.4 of the Supply Manual entitled "Requirements for the Set-aside Program for Indigenous Business". |
|------------|---|
| 2. | I certify that the above statement is true and consent to its verification upon request by Indigenous Services Canada. |
| Printe | ed name of owner |
| Signa | iture of owner |
| Date | |

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement agreement of the Ineligibility and Suspension Policy (http://www.tpsgc-pwgsc.gc.ca/ciif/politique-policy-eng.html), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the Employment and Social Development Canada (ESDC) - Labour's website.

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

5.2.3 **Additional Certifications Precedent to Contract Award**

5.2.3.1 Status and Availability of Resources

SACC Manual clause A3005T (2010-08-16) Status and Availability of Resources

5.2.3.2 Education and Experience

SACC Manual clause A3010T (2010-08-16) Education and Experience

5.2.3.3 List of Names for Integrity Verification Form

Bidders must complete the List of Names for Integrity Verification form found in Attachment 1 to Part 5.

5.2.3.4 Contractor's Representative

Name: Title: Address: Telephone: Facsimile: E-mail:

The Contractor's Representative for the Contract is:

5.2.3.5 Supplementary Contractor Information

Pursuant to paragraph 221 (1)(d) of the Income Tax Act, payments made by departments and agencies under applicable services contracts (including contracts involving a mix of goods and services) must be reported on a T4-A supplementary slip.

To enable the Department of Fisheries and Oceans to comply with this requirement, the Contractor hereby agrees to provide the following information which it certifies to be correct, complete, and fully discloses the identification of this Contractor:

5.2.4 Former Public Servant

Contracts awarded to former public servants (FPS) in receipt of a pension or of a lump sum payment must bear the closest public scrutiny, and reflect fairness in the spending of public funds. In order to comply with Treasury Board policies and directives on contracts awarded to FPSs, bidders must provide the information required below before contract award. If the answer to the questions and, as applicable the information required have not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to comply with Canada's request and meet the requirement within the prescribed time frame will render the bid non-responsive.

Definitions

For the purposes of this clause, "former public servant" is any former member of a department as defined in the *Financial Administration Act*, R.S., 1985, c. F-11, a former member of the Canadian Armed Forces or a former member of the Royal Canadian Mounted Police. A former public servant may be:

- a. an individual;
- b. an individual who has incorporated;
- c. a partnership made of former public servants; or

 a sole proprietorship or entity where the affected individual has a controlling or major interest in the entity.

"lump sum payment period" means the period measured in weeks of salary, for which payment has been made to facilitate the transition to retirement or to other employment as a result of the implementation of various programs to reduce the size of the Public Service. The lump sum payment period does not include the period of severance pay, which is measured in a like manner.

"pension" means a pension or annual allowance paid under the <u>Public Service Superannuation Act</u> (PSSA), R.S., 1985, c. P-36, and any increases paid pursuant to the <u>Supplementary Retirement</u> <u>Benefits Act</u>, R.S., 1985, c. S-24 as it affects the PSSA. It does not include pensions payable pursuant to the <u>Canadian Forces Superannuation Act</u>, R.S., 1985, c. C-17, the <u>Defence Services Pension Continuation Act</u>, 1970, c. D-3, the <u>Royal Canadian Mounted Police Pension Continuation Act</u>, 1970, c. R-10, and the <u>Royal Canadian Mounted Police Superannuation Act</u>, R.S., 1985, c. R-11, the <u>Members of Parliament Retiring Allowances Act</u>, R.S. 1985, c. M-5, and that portion of pension payable to the <u>Canada Pension Plan Act</u>, R.S., 1985, c. C-8.

Former Public Servant in Receipt of a Pension

As per the above definitions, is the Bidder a FPS in receipt of a pension? Yes () No ()

If so, the Bidder must provide the following information, for all FPSs in receipt of a pension, as applicable:

- a. name of former public servant;
- b. date of termination of employment or retirement from the Public Service.

By providing this information, Bidders agree that the successful Bidder's status, with respect to being a former public servant in receipt of a pension, will be reported on departmental websites as part of the published proactive disclosure reports in accordance with Contracting Policy Notice: 2019-01 and the Guidelines on the Proactive Disclosure of Contracts.

The following certification signed by the contractor or an authorized officer:

| Signature | |
|-------------------------|--|
| | |
| | |
| Print Name of Signatory | |

"I certify that I have examined the information provided above and that it is correct and complete"

ATTACHMENT 1 TO PART 5 LIST OF NAMES FOR INTEGRITY VERIFICATION FORM

Requirements

Section 17 of the *Ineligibility and Suspension Policy* (the Policy) requires suppliers, regardless of their status under the Policy, to submit a list of names with their bid or offer. The required list differs depending on the bidder or offeror's organizational structure:

- Suppliers including those bidding as joint ventures, whether incorporated or not, must provide a complete list of the names of all current directors.
- Privately owned corporations must provide a list of the owners' names.
- Suppliers bidding as sole proprietors, including sole proprietors bidding as joint ventures, whether incorporated or not, must provide a complete list of the names of all owners.
- Suppliers that are a partnership do not need to provide a list of names.

Suppliers may use this form to provide the required list of names with their bid or offer submission. Failure to submit this information with a bid or offer, where required, will render a bid or offer non-responsive, or the supplier otherwise disqualified for award of a contract or real property agreement. Please refer to Information Bulletin: Required information to submit a bid or offer for additional details.

List of names for integrity verification form

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

6.1 **Security Requirements**

6.1.1 No Security Requirement, escort required at DFO site(s), except for public zones.

6.2 Statement of Work

The Contractor must perform the Work in accordance with the Statement of Work at Annex "A".

6.3 Standard Clauses and Conditions

As this contract is issued by Fisheries and Oceans Canada (DFO), any reference to Public Works and Government Services Canada or PWGSC or its Minister contained in any term, condition or clause of this contract, including any individual SACC clauses incorporated by reference, will be interpreted as reference to DFO or its Minister.

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (https://buyandsell.gc.ca/policy-and-guidelines/standardacquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

6.3.1 **General Conditions**

- 6.3.1.1 2010B (2022-12001), General Conditions Professional Services (Medium Complexity) apply to and form part of the Contract.
- 6.3.2.1 Subsection 10 of 2010B (2013-12-01), General Conditions Professional Services (Medium Complexity) – Invoice submission, is amended as follows:

Delete: 2010B 10 (2013-03-21), Invoice submission

Insert: Invoice submission

- 1. Invoices must be submitted in the Contractor's name to DFO.invoicingfacturation.MPO@DFO-MPO.gc.ca with a cc to (to be inserted at Contract award). The Contractor must submit invoices for each delivery or shipment; invoices must only apply to the Contract. Each invoice must indicate whether it covers partial or final delivery.
- 2. Invoices must show:
 - a. Contractor's Name and remittance physical address;
 - b. Contractor's CRA Business Number or Procurement Business Number (PBN);
 - c. Invoice Date:
 - d. Invoice Number;
 - e. Invoice Amount (broken down into item and tax amounts);
 - Invoice Currency (if not in Canadian dollars);
 - g. DFO Reference Number (PO Number or other valid reference number);
 - h. DFO Contact Name (DFO employee who initiated the order or to whom the goods were sent. Note: Invoice will be return to the Contractor if that information is not provided);

- Description of the goods or services supplied (provide details of expenditures (such as item, quantity, unit of issue, fixed time labour rates and level of effort, subcontracts, as applicable) in accordance with the Basis of Payment, exclusive of Applicable Taxes;
- j. Deduction for holdback, if applicable;
- k. The extension of the totals, if applicable; and
- If applicable, the method of shipment together with date, case numbers and part or reference numbers, shipment charges and any other additional charges.
- Applicable Taxes must be specified on all invoices as a separate item along with corresponding registration numbers from the tax authorities. All items that are zero-rated, exempt or to which Applicable Taxes do not apply, must be identified as such on all invoices.
- 4. By submitting an invoice, the Contractor certifies that the invoice is consistent with the Work delivered and is in accordance with the Contract.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of the Contract to October 8th, 2023

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Louise Martel

Title: Contracting Specialist

Department: Fisheries and Oceans Canada
Directorate: Materiel and Procurement Services

Address: 301 Bishop Drive Fredericton, NB E3C 2M6

Telephone: 819-962-7325

E-mail address: Louise.Martel@dfo-mpo.gc.ca

The Project Authority for the Contract is:

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

6.5.2 Project Authority (to be inserted at Contract award)

| Name: | |
|---------------|--|
| Title: | |
| Organization: | |
| Address: | |

| Teleph E-mail | one: address | : |
|-------------------------------------|---------------------------------|--|
| carried Work u Project | out und inder the Authori | thority is the representative of the department or agency for whom the Work is being ler the Contract and is responsible for all matters concerning the technical content of the e Contract. Technical matters may be discussed with the Project Authority, however the ty has no authority to authorize changes to the scope of the Work. Changes to the scope in only be made through a contract amendment issued by the Contracting Authority. |
| 6.5.3 | Contra | actor's Representative (to be inserted at Contract award) |
| Name: Title: Organi Addres | ss: | |
| Facsim | | · |
| | 444.000 | • |
| 6.6 | Proact | tive Disclosure of Contracts with Former Public Servants |
| Service reporte | Supera d on de | formation on its status, with respect to being a former public servant in receipt of a Public annuation Act (PSSA) pension, the Contractor has agreed that this information will be partmental websites as part of the published proactive disclosure reports, in accordance g Policy Notice: 2012-2 of the Treasury Board Secretariat of Canada. |
| 6.7 | Payme | ent |
| 6.7.1 | Basis | of Payment |
| "B", to | a limitat | will be paid for the Work performed, in accordance with the Basis of payment in Annex ion of expenditure of \$ (to be inserted at contract award). Customs duties are pplicable Taxes are extra. |
| 6.7.2 | Limita | tion of Expenditure |
| | 1. | Canada's total liability to the Contractor under the Contract must not exceed \$ (to be inserted at contract award). Customs duties are included and Applicable Taxes are extra. |
| | 2. | No increase in the total liability of Canada or in the price of the Work resulting from any design changes, modifications or interpretations of the Work, will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been approved, in writing, by the Contracting Authority before their incorporation into the Work. The Contractor must not perform any work or provide any service that would result in |

a. when it is 75% committed, or

to the adequacy of this sum:

b. four months before the contract expiry date, or

Canada's total liability being exceeded before obtaining the written approval of the Contracting Authority. The Contractor must notify the Contracting Authority in writing as

- as soon as the Contractor considers that the contract funds provided are inadequate for the completion of the Work, whichever comes first.
- 3. If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.

6.7.3 Methods of Payment

6.7.3.1 Single Payment

SACC Manual clause H1000C (2008-05-12), single payment

6.7.4 Electronic Payment of Invoices - Contract

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- i. Acquisition Card;
- ii. Direct Deposit (Domestic and International)

6.8 Invoicing Instructions

- **6.8.1** The Contractor must submit invoices in accordance with subsection 7.2.1 entitled "Invoice Submission" above. Invoices cannot be submitted until all work identified in the invoice is completed.
- **6.8.2** Payments will be made provided that the invoice(s) are emailed to DFO Accounts Payable at DFO.invoicing-facturation.MPO@DFO-MPO.gc.ca with a cc to: (to be inserted at contract award) and provides the required information as stated in subsection 6.8.1 above.

6.9 Certifications and Additional Information

6.9.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.9.2 SACC Manual Clauses

SACC Manual clause <u>A3000</u>C (2022-05-12) Aboriginal Business Certification SACC Manual clause <u>A3015C</u> (2014-06-26) Certification - Contract

6.10 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in **Quebec**.

6.11 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the general conditions 2010B (2022-12-01) professional services (medium complexity);
- (c) Annex A, Statement of Work:
- (d) Annex B, Basis of Payment;
- (e) Annex C, Evaluation criteria;
- (f) the Contractor's bid dated (to be inserted at contract award)

6.12 Insurance - G1005C (2016-01-28)

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

6.13 **Dispute Resolution**

- (a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.
- (b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.
- (c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.
- (d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "Dispute Resolution".
- (e) The Parties agree to make every reasonable effort, in good faith, to settle amicably all disputes or claims relating to the Contract, through negotiations between the Parties' representatives authorized to settle. If the Parties do not reach a settlement within 25 working days after the dispute was initially raised to the other party in writing, either Party may contact the Office of the Procurement Ombudsman (OPO) to request dispute resolution/mediation services. OPO may be contacted by e-mail at boa.opo@boaopo.gc.ca, by telephone at 1-866-734-5169, or by web at www.opo-boa.gc.ca.
- The Office of the Procurement Ombudsman (OPO) was established by the Government of Canada to provide an impartial, independent venue for Canadian bidders to raise complaints regarding the administration of certain federal contracts, regardless of dollar value. If you have concerns regarding the administration of a federal contract, you may contact OPO by e-mail at boa.opo@boa-opo.gc.ca, by telephone at 1-866-734-5169, or by web at www.opo-boa.gc.ca.

6.14 **Environmental Considerations**

As part of Canada's policy directing federal departments and agencies to take the necessary steps to acquire products and services that have a lower impact on the environment than those traditionally acquired, Contractors should:

a) Paper consumption:

- Provide and transmit draft reports, final reports in electronic format. Should printed material be
 required, double sided printing in black and white format is the default unless otherwise specified
 by the Project Authority.
- Printed material is requested on minimum recycled content of 30% and/or certified as originating from a sustainably managed forest.
- Recycle unneeded printed documents (in accordance with Security requirements).

b) Travel requirements:

- The Contractor is encouraged to use video and/or teleconferencing where possible to cut down unnecessary travel.
- Use of Properties with Environmental Ratings: Contractors to the Government of Canada may access the PWGSC Accommodation directory, which includes Eco-Rated properties. When searching for accommodation, Contractors can go to the following link and search for properties with Environmental Ratings, identified by Green Keys or Green Leafs that will honour the pricing for Contractors.
- Use public transportation or another method of green transportation as much as possible.

ANNEX "A " STATEMENT OF WORK

Acquisition of aerial photos Lower North Shore and Middle Estuary, North and South Shore of the St. Lawrence - 2023

1 - Description of tasks

The contract consists of acquiring a series of aerial photographs on the Lower North Shore and on the north and south shores of the Middle Estuary of the St. Lawrence River in the province of Quebec. The acquisition will be made following previously identified flight lines. The photos acquired will feed the bank of images of the coast of Quebec obtained since 2015 by DFO. They will be used to identify and describe eelgrass beds and increase knowledge of the coastal zone, an important ecosystem for many species in the St. Lawrence. These flights must be made between July 15 and October 8, 2023 to match the eelgrass growing season. This document contains all the information necessary to understand the requirements related to the contract.

1.1 Flight number 500: Blanc-Sablon to Tête-à-la-Baleine

13 flight lines (501 to 513) totaling approximately 565.9 km from Blanc-Sablon to Tête-à-la-Baleine. The order of the 13 flight lines was selected to monitor the evolution of low tide levels. (Table 1 and Figure 1).

Table 1: Order of flight lines with start and end coordinates as well as the length of each flight line (measured using UTM Zone 21 projection).

| Flight line number | Longitude Start | Latitude Start | Longitude End | Latitude End | Length (km) |
|--------------------|--------------------|-------------------|------------------|-----------------|----------------|
| 501 | -057.32601729 | 51.48254838 | -057.14968862 | 51.36909291 | 17,6 |
| 502 | -057.07800982 | 51.37492157 | -057.27515906 | 51.49992702 | 19,5 |
| 503 | -057.25981828 | 51.52605479 | -057.89946258 | 51.29343121 | 51,5 |
| 504 | -057.95060273 | 51.31144207 | -057.57913683 | 51.45300399 | 30,3 |
| 505 | -057.69420710 | 51.45218157 | -058.21884270 | 51.25060090 | 42,9 |
| 506 | -058.19677580 | 51.30534931 | -058.49394207 | 51.11012014 | 30,0 |
| 507 | -059.03958977 | 50.79785538 | -058.26300519 | 51.31387622 | 79,1 |
| 508 | -058.36617474 | 51.29691706 | -059.06363890 | 50.83472630 | 70,9 |
| 509 | -059.01004574 | 50.92504563 | -058.41351521 | 51.31309356 | 60,1 |
| 510 | -058.47044145 | 51.32920481 | -059.06094693 | 50.94434668 | 59,5 |
| 511 | -059.19453186 | 50.58635871 | -058.84334311 | 50.84439330 | 37,9 |
| 512 | -058.79890071 | 50.81992047 | -058.97671333 | 50.69745522 | 18,5 |
| 513 | -059.35735831 | 50.51285588 | -058.91925699 | 50.84396588 | 48,1 |
| | | • | | Total | 566 km |



Figure 1: Flight lines and flight direction of the lines from Blanc-Sablon (departure of line 501) to Tête-à-la-Baleine (end of line 513).

1.2 - Flight number 600: Tête-à-la-Baleine to Natashquan

10 flight routes (601 to 610) totaling approximately 705.5 km from Tête-à-la-Baleine to Natashquan. The order of the 10 flight lines was selected to monitor the evolution of low tide levels. (Table 2 and Figure 2).

Table 2: Order of flight lines with start and end coordinates as well as the length of each flight line (measured using UTM Zone 21 projection).

| Flight line number | Longitude Start | Latitude Start | Longitude End | Latitude End | Length (km) |
|--------------------|--------------------|-------------------|------------------|-----------------|----------------|
| 601 | -059.09299317 | 50.81985711 | -059.63153298 | 50.39860847 | 60,40 |
| 602 | -059.47707819 | 50.47036844 | -059.05708523 | 50.79514872 | 46,77 |
| 603 | -059.22730129 | 50.77102771 | -059.71700017 | 50.37140091 | 56,39 |
| 604 | -059.65227968 | 50.46862726 | -059.90622596 | 50.28942553 | 26,90 |
| 605 | -059.91335864 | 50.33697935 | -059.74920242 | 50.45383682 | 17,47 |
| 606 | -059.82702830 | 50.32291732 | -059.59576126 | 50.33592995 | 16,53 |
| 607 | -059.58779994 | 50.30457121 | -061.83233078 | 50.16547236 | 160,96 |
| 608 | -061.82145104 | 50.09552861 | -059.86911825 | 50.21756682 | 140,25 |
| 609 | -059.95029023 | 50.17609130 | -060.39923971 | 50.15143069 | 32,20 |
| 610 | -059.79719063 | 50.25794925 | -061.85388838 | 50.13107075 | 147,61 |
| | | | | Total | 705,5 |

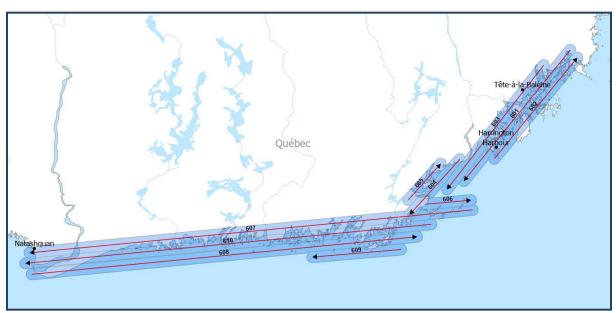


Figure 2: Flight lines and flight direction of flight lines for Flight 600 - Tête-à-la-Baleine to Natashquan

1.3 - Flight number 800: Sainte-Anne-Des-Monts to Rivière-Du-Loup

This flight consists of 11 flight lines (801 to 811) totaling approximately 366 km from Sainte-Anne-Des-Monts to Rivière-Du-Loup. The order of the 11 flight lines was selected to monitor the evolution of low tide levels. (Table 3 and Figure 3).

Table 3: Order of flight lines with start and end coordinates as well as the length of each flight line (measured using UTM Zone 19 projection).

| Flight line number | Longitude Start | Latitude Start | Longitude End | Latitude End | Length (km) |
|--------------------|--------------------|-------------------|------------------|-----------------|----------------|
| | | | - | | 16 |
| 801 | -066.54851406 | 49.12910878 | 066.7560134 5 | 49.08489023 | |
| | | 10112010010 | - | | 37 |
| 802 | | | 067.1844002 | | |
| | -066.73807392 | 49.08905147 | 3 | 48.93847696 | |
| | | | - | | 34 |
| 803 | | | 067.5791418 | | |
| | -067.14465298 | 48.94973795 | 1 | 48.84105391 | |
| | | | - | | 47 |
| 804 | | 40.0000000 | 068.1405189 | 40.00400400 | |
| | -067.57655124 | 48.83822669 | 9 | 48.63129186 | |
| 205 | | | - | | 43 |
| 805 | 000 40007704 | 40.0004.0000 | 068.6015151 | 40.45400700 | |
| | -068.10967734 | 48.66018209 | 4 | 48.45498782 | 40 |
| 906 | | | 060 0500604 | | 48 |
| 806 | -068.51606762 | 48.47288160 | 069.0588601 | 48.23269545 | |
| | -000.51000702 | 40.47200100 | / | 40.23209343 | |

| i i | | ı | 1 | | |
|-----|---------------|-------------|-------------|-------------|-----|
| 007 | | | - | | 14 |
| 807 | | | 068.7833138 | | |
| | -068.93902727 | 48.37193342 | 2 | 48.44083675 | |
| | | | - | | 32 |
| 808 | | | 069.0326928 | | |
| | -068.67516557 | 48.44620475 | 2 | 48.28799865 | |
| | | | - | | 39 |
| 809 | | | 069.4110832 | | |
| | -069.04348896 | 48.27632788 | 9 | 48.02048578 | |
| | | | - | | 21 |
| 810 | | | 069.3124294 | | |
| | -069.50645837 | 47.99814417 | 4 | 48.13709211 | |
| | | | - | | 35 |
| 811 | | | 069.3846231 | | |
| | -069.05402829 | 48.22589477 | 8 | 48.00054142 | |
| | | | | Total | 366 |

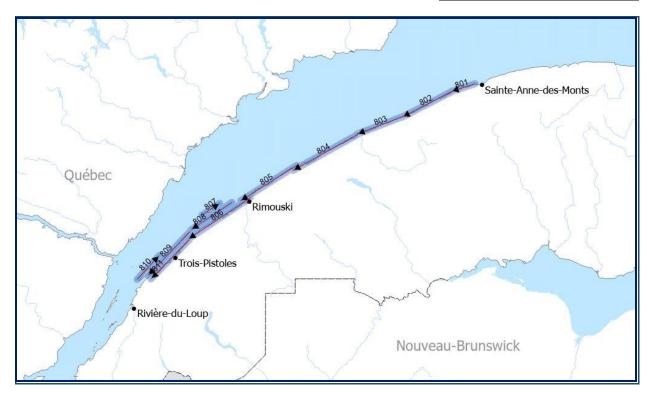


Figure 3: Flight lines and flight direction of the lines from Saint-Anne-des-Mont (departure of line 801) to Rivière-du-Loup (end of line 811).

OPTIONAL

1.4 - Flight number 100: Middle Estuary, North and South Shore

This flight consists of 17 flight lines (101 to 117) totaling approximately 536 km from the Middle Estuary, North and South Shore to the eastern tip of Île d'Orléans. The order of the 17 flight lines was selected to monitor the evolution of low tide levels. (Table 4 and Figure 4).

Table 4: Order of flight lines with start and end coordinates as well as the length of each flight line (measured using UTM Zone 19 projection).

| Flight line number | Longitude Start | Latitude Start | Longitude End | Latitude End | Length (km) |
|--------------------|--------------------|-------------------|-------------------|-----------------|----------------|
| 101 | -069.43136541 | 48.02018372 | - 069.66807047 | 47.73120267 | 37 |
| 102 | -069.81288865 | 47.74427083 | - 069.64180499 | 47.95294244 | 26 |
| 103 | -069.72025347 | 48.09146485 | - 069.88698977 | 47.79421085 | 35 |
| 104 | -069.89577526 | 47.78263691 | - 069.99913399 | 47.68995256 | 13 |
| 105 | -069.92454976 | 47.50610085 | - 069.68047374 | 47.75204546 | 33 |
| 106 | -069.84955862 | 47.63847727 | - 070.08553994 | 47.41708118 | 30 |
| 107 | -070.00281100 | 47.68951169 | - 070.10935459 | 47.65078252 | 9 |
| 108 | -070.12537265 | 47.64025495 | - 070.19939153 | 47.55848352 | 11 |
| 109 | -070.11248936 | 47.60265267 | - 070.43105863 | 47.33161335 | 39 |
| 110 | -070.46884673 | 47.35735332 | - 070.31890724 | 47.48114291 | 18 |
| 111 | -070.42545107 | 47.45384940 | - 070.55784075 | 47.31542657 | 18 |
| 112 | -070.02027976 | 47.42232337 | - 070.59099852 | 46.96096093 | 67 |
| 113 | -070.70229742 | 46.92922479 | - 070.34579106 | 47.21231795 | 42 |
| 114 | -070.38424141 | 47.23629352 | 070.83309930 | 46.87701675 | 53 |
| 115 | -070.88995642 | 46.88644223 | - 070.43044815 | 47.24890213 | 53 |
| 116 | -070.53311641 | 47.30120016 | 070.82659763 | 47.01143548 | 39 |
| 117 | -070.79235480 | 47.01358749 | 070.88647690 | 46.92032637 | 13 |
| | 0.0.7.0200+00 | 1 17.01000170 | 37 0.000 77 000 | Total | 536 |

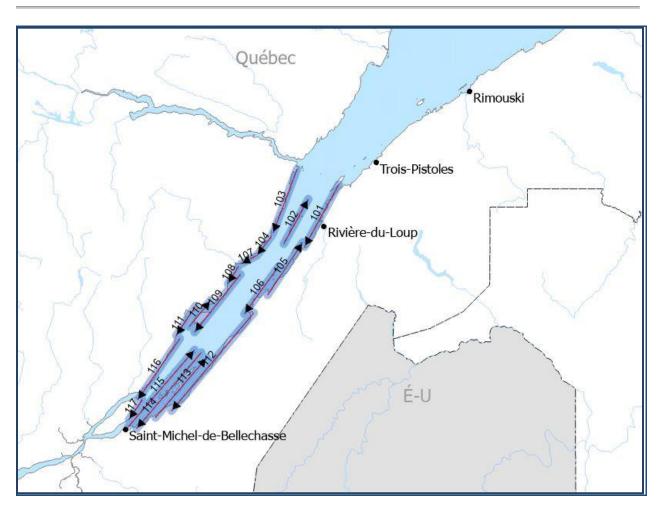


Figure 4: Flight lines and flight direction of the lines of the river and middle estuary, north and south shore to the tip of Île d'Orléans (departure of line 101 and end at line 117).

2- Contract requirements

2.1 - Clarifications

- Aerial photographs must have a ground resolution of 30 cm, +/- 10% (pixel field value) and be sharp.
- The flight lines must be completed in the prescribed order (from 501 to 513, from 601 to 610, etc.) according to the order of Tables 1 to 4.
- The equipment used must cover a ground corridor approximately 4 km wide or more along the flight line (Figure 1 to 4).
- Two successive photos should have an overlap percentage of 60% to 80% in order to optimize the clarity of the available images in case of gale and specular flicker on the surface of the water.
- A flight should only be undertaken if it can be carried out as a whole (all flight lines) taking into account the environmental conditions (specified below).
- The taking of photos must be synchronized as close as possible to the lowest tide; If the previous and following high tides are less than 1.8m, the flight window stretches 3 hours before and after the low tide time. If the previous and next high tides are more than 1.8m and less than 3.6m, the flight window will be 2 hours before and after the time of low tide. On the other hand, if the previous and next high tides are 3.6 and more, the flight window will be 1.5 hours before and after the time of low tide.

- The taking of photos must be synchronized with the period of the day when the angle of elevation of the sun is greater than 25° in order to minimize shadows on the ground.
- Photo times for flights must respect the flight ranges identified on the favorable days of Annex 3. This
 includes information on the times of elevation of the sun above 25°, the times and levels of low tides
 for the sites located at the ends of the flights (Appendix 3).

2.2 - Environmental conditions to be met:

Solar angle: minimum required of 25°

In order to avoid elongated shadows created by elements near the coastline, a minimum elevation of the sun on the horizon must be equal to or greater than 25°. If weather and tidal conditions warrant it, a tolerance of 2° will be accepted (equal to or greater than 23°). This tolerance implies being able to extend the flight period by about 10 minutes (50 km at 300 km/h). Acceptable situations are, for example, an early morning or late afternoon low tide hour which, if the 25° limit were maintained, would prevent the full completion of the scheduled flight during the day.

Tides

The photo should be synchronized as much as possible with the lowest tide in order to identify as accurately as possible the areas of intertidal and subtidal vegetation, such as eelgrass beds and kelp beds, in the covered area. Particular attention should be paid to the duration of the flight, so that it is completed within the acceptable water level limits (<2m of water) and avoid arriving at the point of arrival in a period of high tide (+2m of water).

Wind speed:

With some exceptions, it must be less than 20 km/h (10.8 knots).

- EXCEPTION: When it comes from offshore (this origin varies depending on the location on the coast), the wind speed must be less than 13 km/h (7.02 knots), in order to avoid too much specular reflection due to the waves.
- Site to consult: https://www.windyty.com/

Wave height:

The wave **height** forecast for the St. Lawrence must be 1 meter or less for the sector according to the following site:

Site to consult: https://www.windyty.com/

If the wave height forecast for the St. Lawrence is not available at the previous site, it must be 1 meter or less for the area consulted according to the following sites: Marine Forecasts and Warnings for Canada Environment Canada (meteo.gc.ca)

• The cloudiness and fog conditions under the aircraft must be zero.

3. Technical specifications

3.1 - General specifications

Obtaining the aerial photograph must be done in accordance with the requirements of the photograph, the products to be delivered, and the start and completion dates. The photographs will be used primarily to

determine the extent of eelgrass. The usefulness and value of these images therefore depend on compliance with the specified conditions.

3.2 - Requirements for aerial photography

- Camera to use: Multi-spectral digital camera of UltraCam Xp type or of equivalent or better technical quality.
- Photos must be captured vertically below the flight lines provided, georeferenced and orthorectified.
- Ground accuracy does not require ground control points.
- The resolution must be 30 cm per pixel and the flight altitude must be constant during a flight. UltraCam Xp achieves a swath of at least 4 km at this resolution.
- **Spectral bands**: true color (RGB) and infrared (IR)
- Overlap: Two successive photos must have an overlap percentage of 60% to 80% to ensure a minimum loss of information related to specular reflections in some photos.
- Side cladding does not have to be considered for this project.

3.3 - DFO Obligations

DFO is providing bidders for **flight number 500**:

- A file containing the 13 flight lines to be covered for the mission in the form of electronic files in GIS formats (LignesVol 500 BCN TeteBaleine-BlancSablon.shp: 1 Shapefile - composed of 7 interdependent files) (voir Figure 1).
- A file comprising the 13 4 km wide ground corridors along the flight lines as electronic files in GIS formats (LignesVol_500_BCN_TeteBaleine-BlancSablon_4km.shp: 1 Shapefile composed of 7 interdependent files) (see Figure 1).
- An Excel file (Annexe Vol 500 600 2023 BCN Calendrier Soleil-Marée.xlsx) including the possible flight ranges for flights (from Blanc-Sablon to Tête-à-la-Baleine) from July 15 to October 8, 2023 (see Appendix 3).

DFO provides bidders for flight number 600:

- A file including the 10 flight lines to be covered for the mission in the form of electronic files in GIS formats (LignesVol 600 BCN Natashquan-TeteBaleine.shp: 1 Shapefile - composed of 7 interdependent files) (see Figure 2).
- A file comprising the 10 4 km wide ground corridors along the flight lines as electronic files in GIS formats (LignesVol 600 BCN Natashquan-TeteBaleine 4km.shp: 1 Shapefile - composed of 7 interdependent files) (see Figure 2).
- An Excel file (Annexe_Vol_500_600_2023_BCN_Calendrier Sun-Tide including the possible flight ranges for the flight, from July 15 to October 8, 2023 (see Appendix 3).

DFO is providing bidders for flight number 800:

- A file containing the 11 flight lines to be covered for the mission in the form of electronic files in GIS formats (LinesFlight_Estuaire_800_SainteAnneDesMonts - RiviereDuLoup.shp: 1 **Shapefile -** composed of 7 interdependent files) (see Figure 3).
- A file comprising the 11 4 km wide ground corridors along the flight lines in the form of electronic files in GIS formats (LinesFlight_Estuaire_800_SainteAnneDesMonts -RiviereDuLoup_4Km.shp: 1 Shapefile composed of 7 interdependent files) (see Figure 3).
- An Excel file (Annexe Vol 800-100 2023 Estuaire Moyen RiveNordSud Calendrier Sun-1. Tide) including the possible flight ranges for the flight from July 15 to October 8, 2023 (see Appendix 3).

OPTIONAL:

DFO provides bidders for flight number 100:

- A file containing the 17 flight lines to be covered for the mission in the form of electronic files in GIS formats (LignesVol_Estuaire_100_RiveNord-South.shp: 1 Shapefile – composed of 7 interdependent files) (see Figure 4).
- A file comprising the 17 4 km wide ground corridors along the flight lines as electronic files in GIS formats (LignesVol_Estuaire_100_RiveNordSud_4Km.shp: 1 Shapefile composed of 7 interdependent files) (see Figure 4).
- An Excel file (Annexe_Vol_800-100_2023_Estuaire_Moyen_RiveNordSud_Calendrier Sun-Tide) including the possible flight ranges for the flight from July 15 to October 8, 2023 (see Appendix 3).

3.4 - Deliverables for flights:

For each flight taken:

A) A flight report (electronic format) including:

- The specifications of the camera used to carry out the flight;
- the date, start and end times of the different flight lines carried out;
- the number of each flight line and the number of photos of that flight line as well as the flight altitude.
- B) A copy of the raw (unorthorectified) photos and a Flight Index (Shapefile format) of these photos, including as attributes the Photo ID, flight line, date, time, camera model, and various information from the GPS/IMU system such as the centroid coordinates of each photo, the reference systems used, camera orientation settings (Omega, Phi, Kappa), etc.
- C) The digital (multi-band) files of the various photos taken, orthorectified and georeferenced, as well as the methodology used for orthorectification.

If a flight is not performed:

- D) Considering the possibility that one of the flights cannot be carried out, a schedule must be provided: For each date considered possible according to Annex 3, which the tenderer has mentioned as the date on which its personnel and equipment were available, the **calendar must mention the weather conditions** making it impossible to fly for that date. The weather conditions to consider are as follows:
 - Wind speed too high taking into account its direction;
 - Presence of fog or cloudiness present below flight altitude;
 - Wave height forecast greater than 1 meter.

3.5.1 - Start Date

Photography should begin as early as possible in the season because eelgrass growth is between September 1 and October 8. Ideally on the first day when the weather conditions will be favorable and within the range of flight hours possible according to Annex 3 depending on the sector considered.

3.5.2 - Completion and Delivery Dates

Solicitation No. – N° de l'invitation : 30004592

The aerial photograph must be completed by October 8, 2023. If the scheduled flights have not been completed by this date, the contractor must stop all work related to the taking of photos and contact the project manager within 24 hours. For each flight, photos and other deliverables must be delivered to DFO for inspection within a maximum of 30 days after capture.

APPENDIX 1 POSSIBLE FLIGHT RANGES AND DURATIONS

Note on reviews and estimated flight time:

- The time range does not take into account the approach time of a flight line.
- Possible photo periods lasting more than **3h30**, depending on the flight, are in **bold**

Note on the weighting of bids: The number of days whose "Possible Duration" for the flight is equal to or greater than 3h30, depending on the flight, will be considered favorable and will serve as a technical criterion for the evaluation of bids.

Photo period possible: from September 1 to October 8, 2023

Table:

Date
 Table constructed from September 1 to October 8 inclusively

• Time_Morning Time (GMT-5 with DST - Daylight saving time) rounded to 10 minutes, according to the minimum elevation angle of 25 degrees required

• Time_EndOfDay Time (GMT-5 with DST - Daylight saving time) rounded to 10 minutes, preceding the minimum elevation angle of 25 degrees required

Time_LowTide
 Level LowTide
 Expected low tide level

• Level HTBefore High tide level preceding low tide (usually between 5 and 7 hours before)

• Level HTAfter High tide level following low tide (usually between 5 and 7 hours later)

Possibility of flight
 Evaluation of the possibility of making a flight if weather conditions allows it (Favorable or unfavorable)

Min departure time
 Max departure
 Maximum time to start the flight at the departure site

Max arrival time
 Maximum time of arrival at the arrival site

Duration of the possible flight range estimated by DFO (in hours). Ideally, in this range, the flight should be scheduled to be most synchronized with the low tides of

Possible duration the day.

Sites used to retrieve information:

SUN: : http://www.sunearthtools.com/dp/tools/pos sun.php?lang=fr#table

Flight 500 - Time in GMT -4 (All year)

Flight 600 - Time in GMT -5 (DST) - (So equivalent to GMT -4)

TIDES:

Blanc-Sablon (#02588): https://marees.gc.ca/fr/stations/02588

Coordinates used for the hours of elevation of the sun: 51.4121624,-57.2018488 in 2023

Tête-À-La-Baleine (#02554): https://marees.gc.ca/fr/stations/02554

Coordinates used for the hours of elevation of the sun: 50.7025322,-59.3225430 in 2023

Natashquan (#02510): https://marees.gc.ca/fr/stations/02510

Coordinates used for the hours of elevation of the sun: 50.1839077,-61.8174062 in 2023

Flight 500

Flight 500 - Blanc-Sablon (#02588) / Tête à la baleine (#02554) 566km; Flight duration about 3h30

| | 25° (GMT- | on greater than -5 with DST - saving time) | | | ered: Previous lext for end of | | | | | | | |
|---------------------|--------------------|--|--|-------------------------------|-----------------------------------|-------------------|-----------------------|--------------------------|------------------|---------------------|----------------------|--|
| | | | Next or previous | s high tide o | f: | | | | | | | |
| Evaluated criteria: | | | - Less than 1.8m | - Less than 1.8m: Delta of 3h | | | | Results | | | | |
| | Blanc- | Tête à la | - More than 1.8m and less than 3.6m: Delta of 2h | | | | | | | | | |
| | Sablon (#02588) | baleine (#02554) | - More than 3.6m | n: Delta of 1. | 5h | | | | | | | |
| | (02000) | (| Blanc-Sablon | (#02588) | Tête à la (#02 | | | | | | | |
| Date | Time_Morni ng | Time_EndOfD ay | Time_LowTide | Level_Lo wTide | Time_Low Tide | Level_Lo wTide | Possibility of flight | Min departure time | Max departure | Max arrival time | Possible duration | |
| 01-sept-23 | 07:50 | 15:50 | 16:52 | 0.1 | 17:37 | 0.1 | unfavorable | 13:52 | 12:20 | 15:50 | 1:58 | |
| 02-sept-23 | 08:00 | 15:50 | 17:41 | 0.2 | 18:25 | 0.3 | unfavorable | 14:41 | 12:20 | 15:50 | 1:09 | |
| 03-sept-23 | 08:00 | 15:50 | 6:12 | 0.3 | 6:47 | 0.3 | unfavorable | 8:00 | 5:17 | 8:47 | 0:47 | |
| 04-sept-23 | 08:00 | 15:50 | 6:54 | 0.3 | 7:29 | 0.4 | unfavorable | 8:00 | 5:59 | 9:29 | 1:29 | |
| 05-sept-23 | 08:00 | 15:40 | 7:41 | 0.4 | 8:14 | 0.5 | unfavorable | 8:00 | 6:44 | 10:14 | 2:14 | |
| 06-sept-23 | 08:00 | 15:40 | 8:33 | 0.6 | 9:07 | 0.6 | favorable | 8:00 | 8:37 | 12:07 | 4:07 | |
| 07-sept-23 | 08:00 | 15:40 | 9:36 | 0.7 | 10:10 | 0.7 | favorable | 8:00 | 9:40 | 13:10 | 5:10 | |
| 08-sept-23 | 08:10 | 15:40 | 10:53 | 0.7 | 11:24 | 0.8 | favorable | 8:10 | 10:54 | 14:24 | 6:14 | |
| 09-sept-23 | 08:10 | 15:30 | 12:15 | 0.7 | 12:39 | 0.7 | favorable | 9:15 | 12:00 | 15:30 | 6:15 | |
| 10-sept-23 | 08:10 | 15:30 | 13:21 | 0.7 | 13:46 | 0.7 | favorable | 10:21 | 12:00 | 15:30 | 5:09 | |
| 11-sept-23 | 08:10 | 15:30 | 14:10 | 0.6 | 14:42 | 0.6 | favorable | 11:10 | 12:00 | 15:30 | 4:20 | |

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| 12-sept-23 | 08:10 | 15:30 | 14:50 | 0.5 | 15:27 | 0.5 | favorable | 11:50 | 12:00 | 15:30 | 3:40 |
|------------|-------|-------|-------|-----|-------|-----|-------------|-------|-------|-------|------|
| 13-sept-23 | 08:10 | 15:20 | 15:23 | 0.5 | 16:03 | 0.4 | unfavorable | 12:23 | 11:50 | 15:20 | 2:57 |
| 14-sept-23 | 08:20 | 15:20 | 15:54 | 0.5 | 16:34 | 0.4 | unfavorable | 12:54 | 11:50 | 15:20 | 2:26 |
| 15-sept-23 | 08:20 | 15:20 | 16:23 | 0.5 | 17:03 | 0.4 | unfavorable | 13:23 | 11:50 | 15:20 | 1:57 |
| 16-sept-23 | 08:20 | 15:20 | 16:54 | 0.5 | 17:33 | 0.4 | unfavorable | 13:54 | 11:50 | 15:20 | 1:26 |
| 17-sept-23 | 08:20 | 15:10 | 17:27 | 0.5 | 18:05 | 0.5 | unfavorable | 14:27 | 11:40 | 15:10 | 0:43 |
| 18-sept-23 | 08:30 | 15:10 | 18:06 | 0.6 | 18:41 | 0.6 | unfavorable | 15:06 | 11:40 | 15:10 | 0:04 |
| 19-sept-23 | 08:30 | 15:10 | 6:07 | 0.5 | 6:45 | 0.5 | unfavorable | 8:30 | 5:15 | 8:45 | 0:15 |
| 20-sept-23 | 08:30 | 15:00 | 6:39 | 0.5 | 7:19 | 0.6 | unfavorable | 8:30 | 5:49 | 9:19 | 0:49 |
| 21-sept-23 | 08:30 | 15:00 | 7:22 | 0.6 | 8:01 | 0.6 | unfavorable | 8:30 | 6:31 | 10:01 | 1:31 |
| 22-sept-23 | 08:40 | 15:00 | 8:19 | 0.6 | 8:56 | 0.7 | unfavorable | 8:40 | 7:26 | 10:56 | 2:16 |
| 23-sept-23 | 08:40 | 15:00 | 9:31 | 0.6 | 10:11 | 0.7 | favorable | 8:40 | 8:41 | 12:11 | 3:31 |
| 24-sept-23 | 08:40 | 14:50 | 10:55 | 0.6 | 11:37 | 0.7 | favorable | 8:40 | 10:07 | 13:37 | 4:57 |
| 25-sept-23 | 08:40 | 14:50 | 12:16 | 0.5 | 12:56 | 0.6 | favorable | 9:16 | 11:20 | 14:50 | 5:34 |
| 26-sept-23 | 08:40 | 14:50 | 13:23 | 0.4 | 14:01 | 0.5 | favorable | 10:23 | 11:20 | 14:50 | 4:27 |
| 27-sept-23 | 08:50 | 14:50 | 14:17 | 0.3 | 14:58 | 0.3 | favorable | 11:17 | 11:20 | 14:50 | 3:33 |
| 28-sept-23 | 08:50 | 14:40 | 15:06 | 0.2 | 15:49 | 0.2 | unfavorable | 12:06 | 11:10 | 14:40 | 2:34 |
| 29-sept-23 | 08:50 | 14:40 | 15:53 | 0.2 | 16:37 | 0.2 | unfavorable | 12:53 | 11:10 | 14:40 | 1:47 |
| 30-sept-23 | 08:50 | 14:30 | 16:40 | 0.2 | 17:24 | 0.2 | unfavorable | 14:40 | 11:00 | 14:30 | N/A |
| 01-oct-23 | 09:00 | 14:30 | 17:28 | 0.3 | 18:11 | 0.3 | unfavorable | 15:28 | 11:00 | 14:30 | N/A |
| 02-oct-23 | 09:00 | 14:30 | 18:18 | 0.4 | 18:59 | 0.5 | unfavorable | 16:18 | 11:00 | 14:30 | N/A |
| 03-oct-23 | 09:00 | 14:20 | 6:16 | 0.3 | 6:54 | 0.4 | unfavorable | 9:00 | 5:24 | 8:54 | N/A |
| 04-oct-23 | 09:10 | 14:20 | 7:02 | 0.5 | 7:38 | 0.5 | unfavorable | 9:10 | 6:08 | 9:38 | 0:28 |
| 05-oct-23 | 09:10 | 14:20 | 7:55 | 0.6 | 8:27 | 0.6 | unfavorable | 9:10 | 7:57 | 11:27 | 2:17 |
| 06-oct-23 | 09:10 | 14:10 | 8:59 | 0.7 | 9:26 | 0.7 | unfavorable | 9:10 | 8:56 | 12:26 | 3:16 |
| 07-oct-23 | 09:10 | 14:10 | 10:18 | 0.8 | 10:41 | 0.8 | favorable | 9:10 | 10:11 | 13:41 | 4:31 |
| 08-oct-23 | 09:20 | 14:10 | 11:43 | 0.8 | 12:03 | 0.8 | favorable | 9:20 | 10:40 | 14:10 | 4:50 |
| | | | | | | | | | | | |

Flight 600

705,5km; Flight duration about 3h30

Flight 600 - Tête à la baleine (#02554) / Natashquan (#02510)

| | (GMT-5 with | greater than 25° DST - Daylight g time) | beginning of the flight; Next for end of flight | | | | | | | | |
|---------------------|-----------------------------------|---|---|--|----------------------------|-------------------|-----------------------|--------------------------|------------------|---------------------|----------------------|
| Evaluated criteria: | Tête-à-la- Baleine (#02554) | Natashquan (#02510) | - Less than 1.8 - More than 1.8 - More than 3.6 | m: Delta of 3 m and less m: Delta of | 3h than 3.6m: l 1.5h | | | | | | |
| | | | Tête-à-la-Balei | ne (#02554) | Natashqua | n (#02510) | | | | | |
| Date | Time_Mornin | Time_EndOfD ay | Time_LowTid | Level_Lo wTide | Time_Lo wTide | Level_Lo wTide | Possibility of flight | Min departure time | Max departure | Max arrival time | Possible duration |
| 01-sept-23 | 08:00 | 16:00 | 17:37 | 0.1 | 6:56 | 0.3 | unfavorable | 15:37 | 6:26 | 9:56 | N/A |
| 02-sept-23 | 08:00 | 16:00 | 6:08 | 0.3 | 7:32 | 0.3 | unfavorable | 8:00 | 7:02 | 10:32 | 2:32 |
| 03-sept-23 | 08:00 | 16:00 | 6:47 | 0.3 | 8:07 | 0.3 | unfavorable | 8:00 | 7:37 | 11:07 | 3:07 |
| 04-sept-23 | 08:10 | 16:00 | 7:29 | 0.4 | 8:42 | 0.3 | favorable | 8:10 | 8:12 | 11:42 | 3:32 |
| 05-sept-23 | 08:10 | 15:50 | 8:14 | 0.5 | 9:17 | 0.4 | favorable | 8:10 | 8:47 | 12:17 | 4:07 |
| 06-sept-23 | 08:10 | 15:50 | 9:07 | 0.6 | 9:53 | 0.5 | favorable | 8:10 | 9:23 | 12:53 | 4:43 |
| 07-sept-23 | 08:10 | 15:50 | 10:10 | 0.7 | 10:36 | 0.5 | favorable | 8:10 | 10:06 | 13:36 | 5:26 |
| 08-sept-23 | 08:10 | 15:50 | 11:24 | 0.8 | 11:39 | 0.6 | favorable | 8:24 | 11:09 | 14:39 | 6:15 |
| 09-sept-23 | 08:20 | 15:50 | 12:39 | 0.7 | 13:07 | 0.6 | favorable | 9:39 | 12:20 | 15:50 | 6:11 |
| 10-sept-23 | 08:20 | 15:40 | 13:46 | 0.7 | 14:28 | 0.5 | favorable | 10:46 | 12:10 | 15:40 | 4:54 |

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| 11-sept-23 | 08:20 | 15:40 | 14:42 | 0.6 | 15:29 | 0.4 | favorable | 11:42 | 12:10 | 15:40 | 3:58 |
|------------|-------|-------|-------|-----|-------|-----|-------------|-------|-------|-------|------|
| 12-sept-23 | 08:20 | 15:40 | 15:27 | 0.5 | 16:18 | 0.4 | unfavorable | 12:27 | 12:10 | 15:40 | 3:13 |
| 13-sept-23 | 08:20 | 15:40 | 16:03 | 0.4 | 16:59 | 0.4 | unfavorable | 13:03 | 12:10 | 15:40 | 2:37 |
| 14-sept-23 | 08:20 | 15:30 | 16:34 | 0.4 | 17:37 | 0.4 | unfavorable | 13:34 | 12:00 | 15:30 | 1:56 |
| 15-sept-23 | 08:30 | 15:30 | 17:03 | 0.4 | 18:13 | 0.4 | unfavorable | 14:03 | 12:00 | 15:30 | 1:27 |
| 16-sept-23 | 08:30 | 15:30 | 17:33 | 0.4 | 6:39 | 0.4 | unfavorable | 14:33 | 6:09 | 9:39 | N/A |
| 17-sept-23 | 08:30 | 15:20 | 18:05 | 0.5 | 7:01 | 0.4 | unfavorable | 16:05 | 6:31 | 10:01 | N/A |
| 18-sept-23 | 08:30 | 15:20 | 6:15 | 0.5 | 7:25 | 0.4 | unfavorable | 8:30 | 6:55 | 10:25 | 1:55 |
| 19-sept-23 | 08:30 | 15:20 | 6:45 | 0.5 | 7:53 | 0.4 | unfavorable | 8:30 | 7:23 | 10:53 | 2:23 |
| 20-sept-23 | 08:40 | 15:20 | 7:19 | 0.6 | 8:26 | 0.4 | unfavorable | 8:40 | 7:56 | 11:26 | 2:46 |
| 21-sept-23 | 08:40 | 15:10 | 8:01 | 0.6 | 9:05 | 0.4 | unfavorable | 8:40 | 8:35 | 12:05 | 3:25 |
| 22-sept-23 | 08:40 | 15:10 | 8:56 | 0.7 | 9:52 | 0.4 | favorable | 8:40 | 9:22 | 12:52 | 4:12 |
| 23-sept-23 | 08:40 | 15:10 | 10:11 | 0.7 | 10:52 | 0.4 | favorable | 8:40 | 10:22 | 13:52 | 5:12 |
| 24-sept-23 | 08:50 | 15:10 | 11:37 | 0.7 | 12:15 | 0.4 | favorable | 8:50 | 11:40 | 15:10 | 6:20 |
| 25-sept-23 | 08:50 | 15:00 | 12:56 | 0.6 | 13:48 | 0.4 | favorable | 9:56 | 11:30 | 15:00 | 5:04 |
| 26-sept-23 | 08:50 | 15:00 | 14:01 | 0.5 | 15:02 | 0.3 | favorable | 11:01 | 11:30 | 15:00 | 3:59 |
| 27-sept-23 | 08:50 | 15:00 | 14:58 | 0.3 | 16:04 | 0.2 | unfavorable | 11:58 | 11:30 | 15:00 | 3:02 |
| 28-sept-23 | 08:50 | 14:50 | 15:49 | 0.2 | 17:00 | 0.1 | unfavorable | 13:49 | 11:20 | 14:50 | 1:01 |
| 29-sept-23 | 09:00 | 14:50 | 16:37 | 0.2 | 17:55 | 0.1 | unfavorable | 14:37 | 11:20 | 14:50 | 0:13 |
| 30-sept-23 | 09:00 | 14:50 | 17:24 | 0.2 | 18:48 | 0.1 | unfavorable | 15:24 | 11:20 | 14:50 | N/A |
| 01-oct-23 | 09:00 | 14:40 | 18:11 | 0.3 | 6:47 | 0.2 | unfavorable | 16:11 | 6:17 | 9:47 | N/A |
| 02-oct-23 | 09:00 | 14:40 | 6:13 | 0.3 | 7:21 | 0.2 | unfavorable | 9:00 | 6:51 | 10:21 | 1:21 |
| 03-oct-23 | 09:10 | 14:40 | 6:54 | 0.4 | 7:54 | 0.3 | unfavorable | 9:10 | 7:24 | 10:54 | 1:44 |
| 04-oct-23 | 09:10 | 14:30 | 7:38 | 0.5 | 8:27 | 0.4 | unfavorable | 9:10 | 7:57 | 11:27 | 2:17 |
| 05-oct-23 | 09:10 | 14:30 | 8:27 | 0.6 | 9:02 | 0.5 | unfavorable | 9:10 | 8:32 | 12:02 | 2:52 |
| 06-oct-23 | 09:20 | 14:30 | 9:26 | 0.7 | 9:46 | 0.5 | unfavorable | 9:20 | 9:16 | 12:46 | 3:26 |
| 07-oct-23 | 09:20 | 14:20 | 10:41 | 0.8 | 10:54 | 0.6 | favorable | 9:20 | 10:24 | 13:54 | 4:34 |
| 08-oct-23 | 09:20 | 14:20 | 12:03 | 0.8 | 12:30 | 0.6 | favorable | 9:20 | 10:50 | 14:20 | 5:00 |

Solicitation No. – N° de l'invitation : 30004592

Note on reviews and estimated flight time:

- The time range does not take into account the approach time of a flight line.
- Possible photo periods lasting more than **3h00 ou 3h30**, depending on the flight, are in **bold**

Note on the weighting of bids: The number of days whose "Possible Duration" for the flight is equal to or greater than 3h00 ou 3h30, depending on the flight, will be considered favorable and will serve as a technical criterion for the evaluation of bids.

Photo period possible: from September 1 to October 8, 2023

Table:

Date Table constructed from September 1 to October 8 inclusively

• Time_Morning Time (GMT-5 with DST - Daylight saving time) rounded to 10 minutes, according to the minimum elevation angle of 25 degrees required

• Time_EndOfDay Time (GMT-5 with DST - Daylight saving time) rounded to 10 minutes, preceding the minimum elevation angle of 25 degrees required

• Level_HTBefore High tide level preceding low tide (usually between 5 and 7 hours before)

Level_HTAfter High tide level following low tide (usually between 5 and 7 hours later)
 Possibility of flight Evaluation of the possibility of making a flight if weather conditions allows it (Favorable or unfavorable)

Min departure time
 Max departure
 Minimum time to start the flight at the departure site
 Maximum time to start the flight at the departure site

Max arrival time
 Maximum time of arrival at the arrival site

Duration of the possible flight range estimated by DFO (in hours). Ideally, in this range, the flight should be scheduled to be most synchronized with the low tides of

Possible duration the day.

Sites used to retrieve information:

SUN: : http://www.sunearthtools.com/dp/tools/pos_sun.php?lang=fr#table

Time in GMT -5 with DST - Daylight saving time

TIDES:

Sainte-Anne-des-Monts (#02935): https://marees.gc.ca/fr/stations/02935

Coordinates used for the hours of elevation of the sun: 49.1263278,-66.4849502 in 2023

Rivière-Du-Loup (#03130): https://marees.gc.ca/fr/stations/03130

Coordinates used for the hours of elevation of the sun: 47.8358164,-69.5368025 in 2023

Saint-Michel-de-Bellechasse (station of Berthier-sur-Mer #03200): https://marees.gc.ca/fr/stations/03200

Coordinates used for the hours of elevation of the sun: 46.9265054,-70.7312726 in 2023

Flight 800

Flight 800 - Sainte-Anne-des-Monts (#02935) / Rivière-Du-Loup (#03130) 366km; Approximately flight time 3h00

| | 25° (GMT-5 | Sun: Elevation greater than 25° (GMT-5 with DST - Daylight saving time) | | | : Previous at the for end of fligh | | | | | | | |
|---------------------|--|---|---|----------------------------------|---------------------------------------|-------------------|-----------------------|--------------------------|----------------------|---------------------|-------------------|--|
| Evaluated criteria: | Sainte- Anne-des- Monts | Rivière-Du- Loup (#03130) | Next or previous - Less than 1.8m - More than 1.8m - More than 3.6m | n: Delta of 3h n and less tha | n nan 3.6m: Delt | ta of 2h | Results | | | | | |
| | (#02935) (#03130) Sainte-Anne-des-Monts Rivière-Du-Loup (#03130) | | | | | | | | | | | |
| Date | Time_Morni ng | Time_EndOf Day | Time_LowTide | Level_Lo wTide | Time_Low Tide | Level_Low Tide | Possibility of flight | Min departure time | Max departur e | Max arrival time | Possible duration | |
| 01-sept-23 | 08:30 | 16:40 | 9:49 | 0.1 | 10:56 | 0 | favorable | 8:30 | 9:26 | 12:26 | 3:56 | |
| 02-sept-23 | 08:30 | 16:40 | 10:28 | 0.1 | 11:36 | 0.1 | favorable | 8:30 | 10:06 | 13:06 | 4:36 | |
| 03-sept-23 | 08:30 | 16:30 | 11:06 | 0.2 | 12:17 | 0.3 | favorable | 9:06 | 10:47 | 13:47 | 4:41 | |
| 04-sept-23 | 08:30 | 16:30 | 11:44 | 0.4 | 12:57 | 0.6 | favorable | 9:44 | 11:27 | 14:27 | 4:43 | |
| 05-sept-23 | 08:30 | 16:30 | 12:23 | 0.6 | 13:39 | 1 | favorable | 10:23 | 12:09 | 15:09 | 4:46 | |
| 06-sept-23 | 08:30 | 16:30 | 13:07 | 0.8 | 14:24 | 1.4 | favorable | 11:07 | 12:54 | 15:54 | 4:47 | |
| 07-sept-23 | 08:40 | 16:30 | 13:59 | 1 | 15:20 | 1.8 | favorable | 11:59 | 13:30 | 16:30 | 4:31 | |
| 08-sept-23 | 08:40 | 16:20 | 15:11 | 1.1 | 16:39 | 2 | favorable | 13:11 | 13:20 | 16:20 | 3:09 | |
| 09-sept-23 | 08:40 | 16:20 | 16:35 | 1.1 | 6:34 | 1.7 | non favorable | 14:35 | 5:34 | 8:34 | N/A | |
| 10-sept-23 | 08:40 | 16:20 | 6:33 | 1 | 7:40 | 1.6 | non favorable | 8:40 | 6:10 | 9:10 | 0:30 | |
| 11-sept-23 | 08:40 | 16:20 | 7:22 | 0.8 | 8:26 | 1.4 | non favorable | 8:40 | 6:56 | 9:56 | 1:16 | |

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| 12-sept-23 | 08:40 | 16:20 | 7:58 | 0.7 | 9:02 | 1.2 | non favorable | 8:40 | 7:32 | 10:32 | 1:52 |
|------------|-------|-------|-------|-----|-------|-----|---------------|-------|-------|-------|------|
| 13-sept-23 | 08:50 | 16:10 | 8:28 | 0.7 | 9:31 | 1.1 | non favorable | 8:50 | 8:01 | 11:01 | 2:11 |
| 14-sept-23 | 08:50 | 16:10 | 8:54 | 0.6 | 9:58 | 1 | non favorable | 8:50 | 8:28 | 11:28 | 2:38 |
| 15-sept-23 | 08:50 | 16:10 | 9:19 | 0.5 | 10:22 | 0.9 | favorable | 8:50 | 8:52 | 11:52 | 3:02 |
| 16-sept-23 | 08:50 | 16:10 | 9:44 | 0.5 | 10:47 | 0.8 | favorable | 8:50 | 9:17 | 12:17 | 3:27 |
| 17-sept-23 | 08:50 | 16:00 | 10:09 | 0.5 | 11:14 | 0.8 | favorable | 8:50 | 9:44 | 12:44 | 3:54 |
| 18-sept-23 | 09:00 | 16:00 | 10:35 | 0.5 | 11:42 | 0.8 | favorable | 9:00 | 10:12 | 13:12 | 4:12 |
| 19-sept-23 | 09:00 | 16:00 | 11:04 | 0.6 | 12:12 | 1 | favorable | 9:04 | 10:42 | 13:42 | 4:38 |
| 20-sept-23 | 09:00 | 16:00 | 11:35 | 0.7 | 12:44 | 1.2 | favorable | 9:35 | 11:14 | 14:14 | 4:39 |
| 21-sept-23 | 09:00 | 15:50 | 12:10 | 0.8 | 13:21 | 1.4 | favorable | 10:10 | 11:51 | 14:51 | 4:41 |
| 22-sept-23 | 09:00 | 15:50 | 12:55 | 0.9 | 14:09 | 1.7 | favorable | 10:55 | 12:39 | 15:39 | 4:44 |
| 23-sept-23 | 09:00 | 15:50 | 13:59 | 1 | 15:24 | 1.9 | favorable | 11:59 | 12:50 | 15:50 | 3:51 |
| 24-sept-23 | 09:10 | 15:50 | 15:29 | 1 | 17:03 | 1.8 | non favorable | 13:29 | 12:50 | 15:50 | 2:21 |
| 25-sept-23 | 09:10 | 15:40 | 16:58 | 0.9 | 6:40 | 1.3 | non favorable | 14:58 | 5:40 | 8:40 | N/A |
| 26-sept-23 | 09:10 | 15:40 | 6:31 | 0.7 | 7:39 | 1 | non favorable | 9:10 | 6:09 | 9:09 | N/A |
| 27-sept-23 | 09:10 | 15:40 | 7:18 | 0.5 | 8:25 | 0.7 | non favorable | 9:10 | 6:55 | 9:55 | 0:45 |
| 28-sept-23 | 09:20 | 15:40 | 7:59 | 0.3 | 9:06 | 0.4 | non favorable | 9:20 | 7:36 | 10:36 | 1:16 |
| 29-sept-23 | 09:20 | 15:30 | 8:38 | 0.2 | 9:46 | 0.2 | non favorable | 9:20 | 8:16 | 11:16 | 1:56 |
| 30-sept-23 | 09:20 | 15:30 | 9:15 | 0.1 | 10:24 | 0.2 | non favorable | 9:20 | 8:54 | 11:54 | 2:34 |
| 01-oct-23 | 09:20 | 15:30 | 9:52 | 0.2 | 11:03 | 0.3 | favorable | 9:20 | 9:33 | 12:33 | 3:13 |
| 02-oct-23 | 09:20 | 15:20 | 10:29 | 0.3 | 11:41 | 0.5 | favorable | 9:20 | 10:11 | 13:11 | 3:51 |
| 03-oct-23 | 09:30 | 15:20 | 11:05 | 0.5 | 12:20 | 0.8 | favorable | 9:30 | 10:50 | 13:50 | 4:20 |
| 04-oct-23 | 09:30 | 15:20 | 11:44 | 0.7 | 12:59 | 1.2 | favorable | 9:44 | 11:29 | 14:29 | 4:45 |
| 05-oct-23 | 09:30 | 15:20 | 12:26 | 0.9 | 13:41 | 1.6 | favorable | 10:26 | 12:11 | 15:11 | 4:45 |
| 06-oct-23 | 09:30 | 15:10 | 13:18 | 1.1 | 14:34 | 1.9 | favorable | 11:18 | 12:10 | 15:10 | 3:52 |
| 07-oct-23 | 09:40 | 15:10 | 14:34 | 1.2 | 15:59 | 2.1 | non favorable | 12:34 | 12:10 | 15:10 | 2:36 |
| 08-oct-23 | 09:40 | 15:10 | 16:09 | 1.2 | 17:45 | 2.1 | non favorable | 14:09 | | | N/A |

Vol 100 – OPTIONAL

536km; Flight duration about 3h30

Rivière-du-Loup (#03130) / Saint-Michel-de-Bellechasse (station of Berthier-sur-Mer #03200)

| Evaluated criteria: | (GMT-5 with | Saint-Michel-de- Bellechasse (station of Berthier-sur-Mer | Next or prev | rious high ti 1.8m: Delta 1.8m and le | of 3h ess than 3.6m: D of 1.5h | of flight Delta of 2h | Results | | | | |
|---------------------|------------------|--|--------------------|---------------------------------------|--|------------------------|-----------------------|-----------------------|------------------|---------------------|----------------------|
| | | #03200) | Rivière-D (#031 | | Saint-Mic Bellechasse Berthier-sur-N | (station of | | | | | |
| Date | Time_Morni ng | Time_EndOfDay | Time_Low Tide | Level_Lo wTide | Time_LowTid | Level_Low Tide | Possibility of flight | Min departure time | Max departure | Max arrival time | Possible duration |
| 1 sept. 2023 | 08:40 | 16:50 | 10:56 | 0 | 14:51 | 0.3 | favorable | 09:51 | 12:26 | 16:21 | 6:30 |
| 2 sept. 2023 | 08:40 | 16:40 | 11:36 | 0.1 | 15:30 | 0.3 | favorable | 10:30 | 13:06 | 16:40 | 6:10 |
| 3 sept. 2023 | 08:40 | 16:40 | 12:17 | 0.3 | 16:06 | 0.4 | favorable | 11:06 | 13:10 | 16:40 | 5:34 |
| 4 sept. 2023 | 08:40 | 16:40 | 12:57 | 0.6 | 16:39 | 0.5 | favorable | 11:39 | 13:10 | 16:40 | 5:01 |
| 5 sept. 2023 | 08:40 | 16:40 | 13:39 | 1 | 17:15 | 0.6 | favorable | 12:15 | 13:10 | 16:40 | 4:25 |
| 6 sept. 2023 | 08:40 | 16:40 | 14:24 | 1.4 | 17:51 | 0.9 | favorable | 12:54 | 13:10 | 16:40 | 3:46 |
| 7 sept. 2023 | 08:50 | 16:30 | 15:20 | 1.8 | 06:57 | 0.8 | non favorable | 13:20 | 04:57 | 08:27 | N/A |
| 8 sept. 2023 | 08:50 | 16:30 | 16:39 | 2 | 08:09 | 0.9 | non favorable | 14:39 | 06:09 | 09:39 | N/A |
| 9 sept. 2023 | 08:50 | 16:30 | 6:34 | 1.7 | 09:30 | 0.9 | non favorable | 08:50 | 07:30 | 11:00 | 2:10 |
| 10 sept. 2023 | 08:50 | 16:30 | 7:40 | 1.6 | 10:42 | 0.9 | non favorable | 08:50 | 08:42 | 12:12 | 3:22 |
| 11 sept. 2023 | 08:50 | 16:20 | 8:26 | 1.4 | 11:39 | 0.8 | favorable | 08:50 | 09:39 | 13:09 | 4:19 |

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| 12 sept. 2023 | 08:50 | 16:20 | 9:02 | 1.2 | 12:27 | 0.7 | favorable | 08:50 | 10:27 | 13:57 | 5:07 |
|---------------|-------|-------|-------|-----|-------|-----|---------------|-------|-------|-------|------|
| 13 sept. 2023 | 08:50 | 16:20 | 9:31 | 1.1 | 13:06 | 0.6 | favorable | 08:50 | 11:01 | 14:36 | 5:46 |
| 14 sept. 2023 | 09:00 | 16:20 | 9:58 | 1 | 13:39 | 0.6 | favorable | 09:00 | 11:28 | 15:09 | 6:09 |
| 15 sept. 2023 | 09:00 | 16:20 | 10:22 | 0.9 | 14:06 | 0.5 | favorable | 09:06 | 11:52 | 15:36 | 6:30 |
| 16 sept. 2023 | 09:00 | 16:10 | 10:47 | 0.8 | 14:36 | 0.5 | favorable | 09:36 | 12:17 | 16:06 | 6:30 |
| 17 sept. 2023 | 09:00 | 16:10 | 11:14 | 0.8 | 15:03 | 0.5 | favorable | 10:03 | 12:40 | 16:10 | 6:07 |
| 18 sept. 2023 | 09:00 | 16:10 | 11:42 | 0.8 | 15:30 | 0.5 | favorable | 10:30 | 12:40 | 16:10 | 5:40 |
| 19 sept. 2023 | 09:00 | 16:10 | 12:12 | 1 | 15:57 | 0.6 | favorable | 10:57 | 12:40 | 16:10 | 5:13 |
| 20 sept. 2023 | 09:10 | 16:00 | 12:44 | 1.2 | 16:27 | 0.7 | favorable | 11:27 | 12:30 | 16:00 | 4:33 |
| 21 sept. 2023 | 09:10 | 16:00 | 13:21 | 1.4 | 17:00 | 0.8 | favorable | 12:00 | 12:30 | 16:00 | 4:00 |
| 22 sept. 2023 | 09:10 | 16:00 | 14:09 | 1.7 | 17:45 | 1 | non favorable | 12:45 | 12:30 | 16:00 | 3:15 |
| 23 sept. 2023 | 09:10 | 16:00 | 15:24 | 1.9 | 07:03 | 1 | non favorable | 13:24 | 05:03 | 08:33 | N/A |
| 24 sept. 2023 | 09:10 | 15:50 | 17:03 | 1.8 | 08:27 | 0.9 | non favorable | 15:03 | 06:27 | 09:57 | N/A |
| 25 sept. 2023 | 09:20 | 15:50 | 6:40 | 1.3 | 09:51 | 0.8 | non favorable | 09:20 | 07:51 | 11:21 | 2:01 |
| 26 sept. 2023 | 09:20 | 15:50 | 7:39 | 1 | 11:03 | 0.6 | non favorable | 09:20 | 09:03 | 12:33 | 3:13 |
| 27 sept. 2023 | 09:20 | 15:50 | 8:25 | 0.7 | 12:03 | 0.5 | favorable | 09:20 | 09:55 | 13:33 | 4:13 |
| 28 sept. 2023 | 09:20 | 15:40 | 9:06 | 0.4 | 12:54 | 0.4 | favorable | 09:20 | 10:36 | 14:24 | 5:04 |
| 29 sept. 2023 | 09:20 | 15:40 | 9:46 | 0.2 | 13:39 | 0.4 | favorable | 09:20 | 11:16 | 15:09 | 5:49 |
| 30 sept. 2023 | 09:30 | 15:40 | 10:24 | 0.2 | 14:18 | 0.4 | favorable | 09:30 | 11:54 | 15:40 | 6:10 |
| 1 oct. 2023 | 09:30 | 15:40 | 11:03 | 0.3 | 14:54 | 0.4 | favorable | 09:54 | 12:10 | 15:40 | 5:46 |
| 2 oct. 2023 | 09:30 | 15:30 | 11:41 | 0.5 | 15:30 | 0.4 | favorable | 10:30 | 12:00 | 15:30 | 5:00 |
| 3 oct. 2023 | 09:30 | 15:30 | 12:20 | 0.8 | 16:00 | 0.6 | favorable | 11:00 | 12:00 | 15:30 | 4:30 |
| 4 oct. 2023 | 09:30 | 15:30 | 12:59 | 1.2 | 16:33 | 0.7 | favorable | 11:33 | 12:00 | 15:30 | 3:57 |
| 5 oct. 2023 | 09:40 | 15:20 | 13:41 | 1.6 | 17:09 | 1 | non favorable | 12:11 | 11:50 | 15:20 | 3:09 |
| 6 oct. 2023 | 09:40 | 15:20 | 14:34 | 1.9 | 18:00 | 1.3 | non favorable | 13:00 | 11:50 | 15:20 | 2:20 |
| 7 oct. 2023 | 09:40 | 15:20 | 15:59 | 2.1 | 07:33 | 1 | non favorable | 13:59 | 05:33 | 09:03 | N/A |
| 8 oct. 2023 | 09:40 | 15:20 | 6:01 | 1.8 | 08:54 | 1 | non favorable | 09:40 | 06:54 | 10:24 | 0:44 |

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APPENDIX "B" BASIS OF PAYMENT

DFO asks the contractor to provide a bid for each option detailed below.

OPTION 1

For the provision of any service, including costs associated with carrying out the required work, Canada will provide lump sums as follows:

| Article | Description | Quantity (A) | Distribution unit | Unit price (B) | Calculated price (A x B) |
|---------|--|-----------------|-----------------------|-------------------|-----------------------------|
| 1 | Administrative preparation of the project for flight number 500 | 1 | Each | | |
| 2 | Flight 500 : Technical preparation of the flight and taking photos (566 km of flight lines) | 1 | Each | | |
| 3 | Flight 500 : Post-processing costs | 1 | Each | | |
| 4 | Administrative preparation of the project for flight number 600 | 1 | Each | | |
| 5 | Flight 600 : Technical preparation of the flight and taking photos (706 km of flight lines) | 1 | Each | | |
| 6 | Flight 600 : Post-processing costs | 1 | Each | | |
| 7 | Administrative preparation of the project for flight number 800 | 1 | Each | | |
| 8 | Flight 800 : Technical preparation of the flight and taking photos (366 km of flight lines) | 1 | Each | | |
| 9 | Flight 800 : Post-processing costs | 1 | Each | | |
| | | | Total p (excluding | | |

OPTION 2

For the provision of any service, including costs associated with carrying out the required work, Canada will

provide lump sums as follows:

| Article | Description | Quantity | Distribution unit | Unit price | Calculated price |
|---------|--|----------|-------------------|------------|------------------|
| 1 | Administrative preparation of the project for flight number 500 | (A) | Each | (B) | (A x B) |
| 2 | Flight 500 : Technical preparation of the flight and taking photos (566 km of flight lines) | 1 | Each | | |
| 3 | Flight 500 : Post-processing costs | 1 | Each | | |
| 4 | Administrative preparation of the project for flight number 600 | 1 | Each | | |
| 5 | Flight 600 : Technical preparation of the flight and taking photos (706 km of flight lines) | 1 | Each | | |

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| 6 | Flight 600 : Post-processing costs | 1 | Each | |
|----|--|---|----------------------------------|--|
| 7 | Administrative preparation of the project for flight number 800 | 1 | Each | |
| 8 | Flight 800 : Technical preparation of the flight and taking photos (366 km of flight lines) | 1 | Each | |
| 9 | Flight 800 : Post-processing costs | 1 | Each | |
| 10 | Administrative preparation of the project for flight number 100 | 1 | Each | |
| 11 | Flight 100 : Technical preparation of the flight and taking photos (536 km of flight lines) | 1 | Each | |
| 12 | Vol 100: Post-processing costs | 1 | Each | |
| | - | | Total price (excluding taxes) | |

The financial assessment of Option 2 will be prioritized if its value is less than the maximum funding.

If Option 2 does not meet the financial evaluation criteria, then Option 1 will be evaluated.

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ANNEX "C" **EVALUATION CRITERIA**

MANDATORY REQUIREMENTS

Proposals will be evaluated against the mandatory evaluation criteria, as described below. Bidders' proposals must clearly meet all mandatory requirements to proceed to the next stage of evaluation. Proposals that do not meet the mandatory criteria will be excluded from the selection process.

Bidders should include the following table in their proposal and indicate the page or section number that contains the information to verify that each criterion has been met.

The following mandatory criteria will be evaluated:

| Nº | Mandatory criteria | Proposal Page Nº |
|----|--|------------------|
| | The bidder must provide the name of the camera model and that it must meet the following requirements: | |
| | Camera to use: Multi-spectral digital camera of UltraCam Xp type or of equivalent or better technical quality. | |
| | Photos must be captured vertically below the flight lines provided, georeferenced and orthorectified. | |
| 01 | Ground accuracy does not require ground control points. | |
| | The resolution must be 30 cm per pixel and the flight altitude must be constant during a flight. UltraCam Xp achieves a swath of at least 4 km at this resolution. Spectral bands: true color (RGB) and infrared (IR) | |
| | Overlap: Two successive photos must have an overlap percentage of 60% to 80% to ensure a minimum loss of information related to specular reflections in some photos. Side cladding does not have to be considered for this project. | |
| | The Bidder must provide: | |
| 02 | A calendar of dates considered favorable in which are identified: days when the bidder's equipment or personnel are not available to perform the contract. The days for which they estimate that they can complete the flight if weather conditions permit (see flight duration in Appendices 1 and 2 of the Statement of Work) tenderers must be able to fly a minimum of 65% of the days of the dates considered Favorable according to Appendix 3. In the event of a delay in bid dates, bidders must be able to fly a minimum of 65% of the remaining Favorable days from the bid closing date. | |

In their bids, bidders must provide evidence and demonstrate that they meet each mandatory criterion mentioned above.

Rated technical criteria

Quotes that meet all criteria will then be evaluated and scored as outlined in the tables below.

| Evaluated criteria | | Note Minimum/ Maximum Score | Calculation example | Points Points given | Renvoi Quote page Nº |
|--|---|--------------------------------------|--|---------------------------|----------------------------|
| C1 Flight 500 | Number of available days over the number of favorable days indicated in 'Appendix 3' | 20/30 | 15** available days /15* favorable days maximum = 30 points 12** available days 15 *maximum days = 24 points 10** available days 15 *maximum days = 20 points | | |
| C2 Flight 600 | Number of available days over the number of favorable days indicated in 'Appendix 3' | 20/30 | 15** available days /15* favorable days maximum = 30 points 12** available days 15 *maximum days = 24 points 10** available days 15 *maximum days = 20 points | | |
| C3 Flight 800 | Number of available days over the number of favorable days indicated in 'Appendix 3' | 20/30 | 15** available days /15* favorable days maximum = 30 points 12** available days 15 *maximum days = 24 points 10** available days 15 *maximum days = 20 points | | |
| Optional | | | | | |
| C4 Flight 100 | Number of available days over the number of favorable days indicated in 'Appendix 3' | 20/30 | 15** available days /15* favorable days maximum = 30 points 12** available days 15 *maximum days = 24 points 10** available days 15 *maximum days = 20 points | | |
| Total : points per flight *Maximum number of days are based on the favorable days of the schedules in Annandix 3 from | | | | | |

^{*}Maximum number of days are based on the favorable days of the schedules in Appendix 3 from the closing date of the call for tenders.

** The number of available flight days is the number of favorable days for which the bidder is available to fly if the weather conditions are adequate.

NOTE: Calculations will be made based on the days possible and available on the closing date of the call for tenders and bidders must be able to fly a minimum of 65% of favorable days from this date.

The cost will be calculated per flight evaluated, for a maximum total of 30 pts per flight and for a minimum availability of 65% of favorable days per flight to be eligible, i.e . 20/30.