

RETURN BIDS TO:

RETOURNER LES SOUMISSIONS Á:

**Parks Canada Agency
P.O. Box 220
6300 Highway 93S
McKay Compound, Stores Building
Radium Hot Springs, British Columbia
V0A 1M0**

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

Proposal To: Parks Canada Agency

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

Proposition aux: l'Agence Parcs Canada

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

Comments - Commentaries

Issuing Office - Bureau de distribution

Parks Canada Agency
Lake Louise, Yoho, Kootenay Field Unit
P.O. Box 220
Radium Hot Springs, British Columbia
V0A 1M0

Title-Sujet Traffic Monitoring Services		Date March 3, 2017
Solicitation No. - No. de l'invitation 5P424-16-0206	Client Ref. No. - No. de réf du client.	
Solicitation Closes L'invitation prend fin at - á 02:00 PM on - le April 21, 2017	Time Zone Fuseau horaire - Mountain Time	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>		
Address Inquiries to: - Adresser toute demande de renseignements à : Eloise Meredith		
Telephone No. - No de téléphone (250) 347-6622	Fax No. - No de FAX: (250) 347-6621	
Destination of Goods, Services, and Construction: Destinations des biens, services et construction: Parks Canada Agency Yoho, Kootenay, Banff, Jasper and Glacier National Parks		
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur		
Name and title of person authorized to sign on behalf of the Vendor/Firm Nom et titre de la personne autorisée a signer au nom du fournisseur/ de l'entrepreneur		
Signature		Date

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PART 1 - GENERAL INFORMATION

1.1 Security Requirements

There is no security requirement associated with the work.

1.2 Statement of Work

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

1.3 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, by telephone or in person.

1.4 Trade Agreements

"The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT)."

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

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-and-guidelines/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 (2016-04-04) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

2.2 Submission of Bids

Bids must be submitted only to Parks Canada Agency (PCA) Bid Receiving Unit 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 PCA (Parks Canada Agency) will not be accepted.

2.3 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
- d. 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 Public Service Superannuation Act (PSSA), R.S., 1985, c. P-36, and any increases paid pursuant to the Supplementary Retirement Benefits Act, R.S., 1985, c. S-24 as it affects the PSSA. It does not include pensions payable pursuant to the Canadian Forces Superannuation Act, R.S., 1985, c. C-17, the Defence Services Pension Continuation Act, 1970, c. D-3, the Royal Canadian Mounted Police Pension Continuation Act, 1970, c. R-10, and the Royal Canadian Mounted Police Superannuation Act, R.S., 1985, c. R-11, the Members of Parliament Retiring Allowances Act, R.S. 1985, c. M-5, and that portion of pension payable to the Canada Pension Plan Act, 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: 2012-2 and the Guidelines on the Proactive Disclosure of Contracts.

Work Force Adjustment Directive

Is the Bidder a FPS who received a lump sum payment pursuant to the terms of the Work Force Adjustment Directive? **Yes () No ()**

If so, the Bidder must provide the following information:

- a. name of former public servant;

- b. conditions of the lump sum payment incentive;
- c. date of termination of employment;
- d. amount of lump sum payment;
- e. rate of pay on which lump sum payment is based;
- f. period of lump sum payment including start date, end date and number of weeks;
- g. number and amount (professional fees) of other contracts subject to the restrictions of a work force adjustment program.

For all contracts awarded during the lump sum payment period, the total amount of fees that may be paid to a FPS who received a lump sum payment is \$5,000, including Applicable Taxes.

2.4 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than ten (10) 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.

2.5 Applicable Laws

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

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.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

Canada requests that Bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (one (1) hard copies)

Section II: Financial Bid (one (1) hard copies)

Section III: Certifications (one (1) hard copies)

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

Canada requests that Bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

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. The total amount of Applicable Taxes must be shown separately.

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

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

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

- a) Documentation verifying meeting minimum 10 years in business and minimum 2 years of experience with Golden River M660 and Golden River 3031 traffic recorders and the Golden River Programming Language (GRPL). This documentation must include:
 - i. client references who can attest to staff members with this experience
 - ii. a list of projects these staff members were involved with using the equipment and technology described above, with dates and client reference contact information
 - iii. References must demonstrate successful completion of timely and reliable installation, maintenance and repair work, and accurate reporting with each of the traffic recorders.
- b) Contractors handling the traffic recorder hardware during maintenance and repair must be certified as an Electronics Engineering Technologist, and Electronics Service Technician with 3 years applicable experience.
- c) Contractors installing traffic recorder hardware and infrastructure such as loop sensors must have a Certificate of Recognition in Roadway Safety issued by the Alberta Construction Safety Association or similar provincial or federal authority.

4.1.2 Financial Evaluation

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

4.2 Basis of Selection

4.2.1 Basis of Selection – Mandatory Technical Criteria

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price will be recommended for award of a contract.

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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 *Ineligibility and Suspension Policy* (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide with its bid the required documentation, as applicable, to be given further consideration in the procurement process.

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.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the *Ineligibility and Suspension Policy* (<http://www.tpsgc-pwgsc.gc.ca/ci-if/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](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969) (http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969).

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

The Bidder certifies that, should it be awarded a contract as a result of the bid solicitation, every individual proposed in its bid will be available to perform the Work as required by Canada's representatives and at the time specified in the bid solicitation or agreed to with Canada's representatives. If for reasons beyond its control, the Bidder is unable to provide the services of an individual named in its bid, the Bidder may propose a substitute with similar qualifications and experience. The Bidder must advise the Contracting Authority of the reason for the substitution and provide the name, qualifications and experience of the proposed replacement. For the purposes of this clause, only the following reasons will be considered as beyond the control of the Bidder: death, sickness, maternity and parental leave, retirement, resignation, dismissal for cause or termination of an agreement for default.

If the Bidder has proposed any individual who is not an employee of the Bidder, the Bidder certifies that it has the permission from that individual to propose his/her services in relation to the Work to be performed and to submit his/her résumé to Canada. The Bidder must, upon request from the Contracting Authority, provide a written confirmation, signed by the individual, of the permission given to the Bidder and of his/her availability.

5.2.3.2 Technical Certifications

Contractors handling the traffic recorder hardware during maintenance and repair must be certified as an Electronics Engineering Technologist, and Electronics Service Technician with 3 years applicable experience

Contractors installing traffic recorder hardware and infrastructure such as loop sensors must have a Certificate of Recognition in Roadway Safety issued by the Alberta Construction Safety Association or similar provincial or federal authority.

5.2.3.3 Education and Experience

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

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 There is no security requirement applicable to the Contract.

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

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/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

2010C (2016-04-04), General Conditions - Services (Medium Complexity) apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from June 1, 2017 to March 31, 2018 inclusive.

6.4.2 Option to Extend the Contract

The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to **two additional one year periods** under the same conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment.

Canada may exercise this option at any time by sending a written notice to the Contractor at least 60 calendar days before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a contract amendment.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Eloise Meredith
Contracting Officer
P.O. Box 220
Radium Hot Springs, British Columbia V0A 1M0

Telephone: 250-347-6622 Facsimile: 250-347-6621 E-mail address: eloise.meredith@pc.gc.ca

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

The Project Authority for the Contract is: **To Be Announced**

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority, however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.6 Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a Public Service Superannuation Act (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with Contracting Policy Notice: 2012-2 of the Treasury Board Secretariat of Canada.

6.7 Payment

6.7.1 Basis of Payment

For items 1-5 as detailed in Annex "B" Basis of Payment

In consideration of the Contractor satisfactorily completing its obligations under the Contract, the Contractor will be paid a firm price, as specified in Annex "B" for a cost of \$ **(to be inserted at contract award)**. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

For the firm price portion of the Work only, Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

For Item 2.2 as detailed in Annex "B" Basis of Payment:

The Contractor will be reimbursed for the costs reasonably and properly incurred in the performance of the Work, as determined in accordance with the Basis of Payment in Annex "B", to a limitation of expenditure of \$ **(to be inserted at contract award)**. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

6.7.2 Limitation of Expenditure

6.7.2.1 Canada's total liability to the Contractor under the Contract must not exceed \$ **(to be inserted at contract award)**. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

6.7.2.2 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 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 to the adequacy of this sum:

- (a) when it is 75 percent committed, or
- (b) four (4) months before the contract expiry date, or
- (c) as soon as the Contractor considers that the contract funds provided are inadequate for the completion of the Work, whichever comes first.

6.7.2.3 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 Bi-Monthly Payment

Canada will pay the Contractor on a bi-monthly basis for work performed during the two months covered by the invoice in accordance with the payment provisions of the Contract if:

- a. an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b. all such documents have been verified by Canada;
- c. the Work performed has been accepted by Canada.

6.8 Invoicing Instructions

6.8.1 The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

6.8.2 Invoices must be distributed as follows:

- a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

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.

6.10 Applicable Laws

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

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 2010C (2016-04-04), General Conditions - Services (Medium Complexity);
- (c) Annex A, Statement of Work;
- (d) Annex B, Basis of Payment;
- (e) Annex C, Insurance;
- (f) Annex D, Attestation and Proof of Compliance with Occupational Health and Safety (OHS); and
- (g) the Contractor's bid dated _____ (*insert date of bid*) (*If the bid was clarified or amended, insert at the time of contract award: " , as clarified on _____ " or " , as amended on _____ " and insert date(s) of clarification(s) or amendment(s)*)

6.12 SACC Manual Clauses

B6802C (2007-11-30) Government Property

6.13 Insurance Requirements

The Contractor must comply with the insurance requirements specified in Annex C . The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.

The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

The Contractor must forward to the Contracting Authority within ten (10) days after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. Coverage must be placed with an Insurer licensed to carry out business in Canada. The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

ANNEX "A"

STATEMENT OF WORK

1.0 SCOPE

An existing network of Automated Traffic Recorders (ATRs) is to be maintained on Parks Canada roads in Alberta and British Columbia through Jasper, Banff, Yoho, Kootenay and Glacier National Parks. Traffic data will be collected and reports will be produced from the collected data. A list of ATRs and sites along Parks Canada roads in Alberta and British Columbia can be found in Annex A.1. This contract will start June 1, 2017 for a duration of one year with two optional one-year period extensions for a potential total of three years.

2.0 PROGRAM AREAS

The following are the major areas of the traffic monitoring services contract:

- ATR Site Maintenance, Repair, and Swapping
- Data Retrieval
- Data Processing and Reporting
- Installation of New ATR sites (on an as and when required basis)
- Loop Installation and Repair (on an as and when required basis)
- Deactivation and Removal of ATRs (on an as and when required basis)

The contractor must commence providing these services on June 1, 2017.

3.0 PROGRAM OBJECTIVES

3.1 *ATR Site Maintenance, Repair, and Swapping*

3.1.1 Parks Canada exclusively uses Golden River 3031 volumetric counters, Golden River M660 classifiers and Golden River M680 classifiers. The contractor must have experience with the operation and maintenance of these specific ATRs.

3.1.2 ATR sites are administered by Parks Canada (PCA) or the Province of Alberta as indicated in Annex A.1. All sites are within Parks Canada lands. Administration of ATRs includes regular maintenance of each ATR and repair of non-functioning ATRs.

3.1.3 ATRs administered by Parks Canada must be maintained so that traffic volumes are recorded continuously on an hourly basis by direction daily year in/year out. Maintenance includes routine site maintenance as described in section 4.1, repair and replacement of damaged equipment.

3.1.4 ATRs not administered by Parks Canada are maintained by others under contract with the Province of Alberta.

3.1.5 At the conclusion of the contract, the contractor shall return to Parks Canada all ATRs listed in Annex A.1 in a fully operational condition and all spare ATRs and ATR components listed in Annex A.2 regardless of condition.

3.2 Data Retrieval and Processing

3.2.1 The data from each ATR listed in Annex A.1 will be physically downloaded by the contractor at an interval that satisfies the reporting frequency requirements indicated in section 4.4.2.

3.2.2 The production of traffic statistic reports for all ATR sites listed in Annex A.1 shall proceed under the reporting requirements listed in section 4.4.

3.3 Installation of New ATR Sites (on an as and when required basis)

Installation, operation, maintenance, and data retrieval of additional ATRs may be requested by Parks Canada under this contract.

3.3.1 A written request from the Parks Canada representative is required for the contractor to carry out this additional work.

3.3.2 The installation of ATR infrastructure at a new site or at a site where only some functioning infrastructure from a previous installation exists is considered additional work and is billable by the contractor at a price agreed upon by the Parks Canada representative.

3.3.3 Operation, maintenance, data retrieval, and reporting activities will begin at the next scheduled site visit for data download.

3.3.4 Pricing for the operation, maintenance, data retrieval, and reporting activities shall be consistent with the pricing for these activities performed at the other ATR sites administered by Parks Canada.

3.3.5 Refer to section 4.5 for program tasks related to installation of new ATR sites.

3.4 Loop Repair (on an as and when required basis)

The following objectives have been established for the installation and repair of magnetic induction loop sensors at the ATRs administered by Parks Canada.

3.4.1 Loop repair; to re-install or repair as quickly as possible any of the magnetic induction loop sensors or lead in wiring at any of the ATRs Administered by Parks Canada when they are damaged by road construction, man-made or natural causes.

3.4.2 Loop repair can only be carried out by the contractor if a written request is provided to the contractor from the Parks Canada representative.

3.4.5 Loop repair is considered additional work and is billable by the contractor at a price agreed upon by the Parks Canada representative.

3.4.6 Refer to section 4.6 for program tasks related to loop installation and repair.

3.5 Deactivation of ATRs (on an as and when required basis)

Deactivation of ATRs no longer required may be requested by Parks Canada under this contract. A written request from the Parks Canada representative is required for the contractor to carry this out.

3.5.1 Operation, maintenance, data retrieval, and reporting activities will cease at the next scheduled site visit for data download.

3.5.2 The cost for operation, maintenance, data retrieval, and reporting activities of deactivated ATRs shall not continue past the time when the site visit to deactivate occurs.

4.0 PROGRAM TASKS

ATR sites

General

ATR sites are administered by Parks Canada or by the Province of Alberta as indicated in Annex A.1. For all sites, electronics, magnetic induction loop sensors, cabinets, portable boxes, solar panels, posts, conduits, connectors, and wiring are the property of the agency responsible for the administration of the ATR at that site.

The contractor shall physically download the data from each ATR at an interval that satisfies the reporting frequency requirements specified in section 4.4.2.

At the conclusion of the contract, the contractor shall return to Parks Canada all ATRs listed in Annex A.1 in a fully operational condition and all spare ATRs and ATR components listed in Annex A.2 regardless of condition.

4.1 **ATR Site Maintenance, Repair, and Swapping**

4.1.1 The contractor will maintain an inventory of installed ATR locations and equipment including serial numbers and provide it to Parks Canada upon request in a mutually agreed upon electronic format.

4.1.2 The contractor is responsible for all the maintenance, repair and switching of equipment at the Parks Canada ATRs.

4.1.3 The contractor will conduct inspections, maintenance and reasonable repairs or replacement of the ATR sites using an experienced Electronics Technologist or Technician.

4.1.4 All required repairs will be performed at the time of the site inspection. Any ATR not repairable on-site will be replaced with a spare ATR to minimize site downtime.

4.1.5 ATR maintenance will consist of the following activities:

- Clean cabinet
- Clean solar panel glass
- Grease hinges and locks
- Check wiring
- Check for loose screws
- Snow and ice removal from the site surroundings

4.1.6 For all ATR repair and swapping, the contractor will indicate the following on a "Site Service Form" approved by Parks Canada:

- Name and qualification of person(s) performing the work
- ATR Number and Site Description
- National Park & Highway
- Description of maintenance and repair done
- Serial #'s of removed equipment
- Reason for equipment removal
- Serial #'s of installed equipment
- Indicate Loop Repair work required
- Indicate work to be performed at a later date
- Completed "Site Service Forms" must be submitted to Parks Canada in a mutually agreed electronic format within one month of the work being done

4.1.7 During the contract period the contractor will replace the following equipment at the contractor's own cost:

- Internal parts for volumetric counters / classifiers and wireless communications
- 12 Volt Batteries
- Solar Panels & regulators

4.1.8 Amendments will be issued for replacement and reinstallation of damaged or destroyed inroad sensors, wiring, cabinets, or posts, due to age or deterioration of roadway surface, construction, or collision and will be paid for by Parks Canada.

4.2 Spare ATRs

4.2.1 The contractor will maintain an inventory of spare ATR equipment including serial numbers and provide it to Parks Canada upon request in a mutually agreed upon electronic format.

4.2.2 In order to facilitate rapid correction of problems with faulty ATRs and other hardware which cannot be fixed on site, spare Golden River 3031, Golden River M660 and optionally Golden River M680 ATRs will be provided by Parks Canada. At the conclusion of the contract, the contractor will return to Parks Canada these spare units in addition to the Parks Canada ATRs operating in the field.

4.2.3 At the end of the contract, all repairable equipment will be returned to its original operational specifications, all salvageable equipment will be returned to Parks Canada and all non-repairable equipment will be returned to Parks Canada.

4.2.4 The contractor shall own and be able to provide all the schematics and repair manuals for repairing Parks Canada ATR equipment.

4.2.5 If damage occurs to an ATR, housing, or wiring, Parks Canada reserves the option of replacing equipment deemed non-repairable at Parks Canada cost. Equipment will be replaced with the exact same equipment or Parks Canada approved equipment.

4.2.6 The contractor is responsible for purchasing additional equipment to increase the spare ATR float throughout the contract as necessary. This additional equipment becomes the property of PCA and will be returned to PCA at the end of the contract. If the contractor determines that more ATRs are required than the specified Firm Year quantities in the Basis of Payment, the Parks Canada representative will be required to approve the change to the quantity to increase the spare float for this contract.

4.3 Data Retrieval

The contractor will physically download the data from each ATR at an interval that satisfies the reporting frequency requirements specified in section 4.4.2.

4.3.1 All ATRs will be configured to record traffic in both directions and store the directional traffic for 60 minute intervals. Some classifiers will be configured to record vehicle speed, length, and time gap between vehicles.

4.3.2 The contractor must use Golden River approved loop sensor communications cables with all the installed equipment.

4.3.3 The contractor must ensure that the counters use the Golden River Programming Language.

4.3.4 The contractor will provide his own personal computer to retrieve the data from the ATRs.

4.3.5 Data retrieval from ATRs at sites that are not enabled for cellular retrieval will be performed every second month within 10 calendar days of the beginning of that month. The bi-monthly retrievals shall be done at the beginning of April, June, August, October, December, and February.

4.3.6 The contractor will provide the data collected from sites that are not enabled for cellular retrieval on an approved electronic storage medium to Parks Canada within one month of the data retrieval date, along with a detailed invoice indicating the following:

- Site Retrieved
- Date
- Hours of Data Retrieved

4.3.7 Data retrieval from ATRs at sites that are enabled for cellular retrieval shall be performed hourly.

4.3.8 The contractor will provide the data collected from sites that are enabled for cellular retrieval within 30 minutes of the end of the previous one-hour collection period.

4.4 Data Processing and Report Specifications

4.4.1 The collection of data and subsequent production of traffic statistic reports is required for the duration of the contract.

4.4.2 The contractor will e-mail all bi-monthly / annual reports to the recipients on a mailing list provided by Parks Canada. The reports will be delivered every two months. (April, June, August, October, December, and February)

4.4.3 Reports will be provided in Excel 2007 through 2013 XML format. A dynamic online map shall be provided with clickable geo-located ATR sites that provide a list of current and historical individual monthly reports in an intuitive interface that 75% of end users can use without training. If end user training is required, the contractor shall be required to provide thorough documentation on the usage of the online map. Invoices will be e-mailed when work is completed and will be supplied in Adobe Acrobat (PDF) format.

4.4.4 Missing data

The contractor shall present to Parks Canada along with the bi-monthly invoice the bi-monthly data in an acceptable format highlighting the "missing or corrupted" hours of data from the individual ATRs. Parks Canada expects a maximum of 5% of "missing or corrupted" hours of data for all sites combined over the duration of the contract. If there is more than the allowed 5% hours of data "missing or corrupted", payment for work completed under this task will be prorated based on the number of acceptable hours of data retrieved from the total potential number of operating hours. For example if in total all sites have 5% or fewer hours of "missing or corrupted" data, payment will be for 100% of the bid price. However if the ATR network has 10% cumulative hours of "missing or corrupted" data, payment will be reduced by a percentage equal to the percentage of cumulative hours of "missing or corrupted" data to a maximum of 90% of the invoiced cost of the data retrieval, reporting, and maintenance portion of this contract.

4.4.4.1 The failure of an ATR or its components will result in missing data. Unless otherwise specified, missing or erroneous daily data will be represented as blanks. Where data is missing, the monthly volume total and MADT will be estimated.

4.4.4.2 There must be at least one complete week of data in a month in order for estimates to be calculated. For each ATR site where estimates are calculated, a monthly diagnostic report will be provided that will indicate the hours and percentage of good data for that reporting period.

4.4.4.3 Additionally a monthly diagnostic report will be provided indicating the number of hours and percentage of good data for each ATR site.

4.4.5 Monthly Volumetric ATR Reports

4.4.5.1 Each monthly report will be summarized into total two-way and directional traffic. Monthly reports will report hourly volumes, daily volume totals, monthly volume total and MADT (Monthly Average Daily Traffic) for directional and total two-way traffic.

4.4.6 Annual Volumetric ATR Reports

4.4.6.1 Volumetric Counters Annual Reports: An annual report will be produced for the end of each year in this contract. The annual report will show for each direction and total two-way traffic the following:

- MADT's for each month
- Monthly traffic volumes
- Average Annual Daily Traffic (AADT)
- Average Summer Daily Traffic (ASDT) (June 25 through September 7)
- Average Winter Daily Traffic (AWDT) (December through March)
- Total annual daily traffic volumes

Note: Where there is only total two-way traffic, only total two-way reports and data will be provided. Missing MADT's and monthly volumes will be estimated if at least one month of valid data is available.

4.4.7 Monthly Classifier (Speed and Class) ATR Reports

4.4.7.1 Each monthly report will be summarized into total two-way and directional traffic. Monthly reports will report hourly volumes, daily volume totals, monthly volume total and MADT (Monthly Average Daily Traffic) for directional and total two-way traffic.

4.4.7.2 Monthly Speed Report: The monthly speed report will report for each direction and two-way, hourly Average Speed, Standard Deviation and 85th percentile for the daily periods of 24Hrs, Day and Night. Monthly averages for the same will be included. Missing data will be represented as blanks.

4.4.7.3 Monthly Length Report: The monthly length report will report hourly total volume, volume and volume percentages for each direction and two-way, for collected length bin data for the periods of 24Hrs, Day and Night. Monthly averages for the same will be included. The current length categories are as follows:

Bin	Length Bin Criteria	
1	>= 0 cm	<= 600 cm
2	>= 601 cm	<= 1700 cm
3	>= 1701 cm	<= 3500 cm
4	> 3500 cm	

4.4.7.4 Monthly Gap Report: The monthly gap report will report hourly total volume, volume and volume percentages for each direction and two-way, for collected gap bin data. Monthly averages for the same will be included. The current gap categories for all sites except the Upper Norquay Road ATR site 11300030 are as follows:

Bin	Gap Bin Criteria	
1	0 sec.	<= 1 sec.
2	> 1 sec.	<= 3 sec.
3	> 3 sec.	<= 5 sec.
4	> 5 sec.	<=10 sec.
5	> 10 sec.	<= 20 sec.
6	> 20 sec.	<= 30 sec.
7	> 30 sec.	

The gap categories for the Upper Norquay Road ATR site 11300030 are as follows:

Bin	Gap Bin Criteria	
1	0 sec.	<= 6 sec.
2	> 6 sec.	<= 30 sec.
3	> 30 sec.	<= 120 sec.
4	> 120 sec.	<= 240 sec.
5	> 240 sec.	<= 480 sec.
6	> 480 sec.	<= 990 sec.
7	> 990 sec.	

4.4.7.5 Monthly Classification Report: The monthly classification report will report hourly total volume, volume and volume percentages for each direction and two-way, for collected length bin data for the periods of 24Hrs, Day and Night. Monthly averages for the same will be included. Monthly classification reports will only be produced if current turning movement calibration data is available. The classification types to be included in this report are: PV, RV, Bus, Trucks (SU and TTC) and Other (if warranted).

4.4.8 Annual Classifier (Speed and Class) ATR Reports

4.4.8.1 Annual Speed Report: The annual speed report will report for each direction and two-way, monthly Average Speed, Standard Deviation and 85th percentile for the daily periods of 24Hrs, Day and Night. Annual averages for the same will be included.

4.4.8.2 Annual Length Report: The annual length report will report monthly total volume, volume and volume percentages for each direction and two-way, for collected length bin data for the periods of 24Hrs, Day and Night. Annual totals for the same will be included. The current length categories are as follows:

Bin	Length Bin Criteria	
1	>= 0 cm	<= 600 cm
2	>= 601 cm	<= 1700 cm
3	>= 1701 cm	<= 3500 cm
4	> 3500 cm	

4.4.8.3 Annual Gap Report: The annual gap report will report monthly total volume, volume and volume percentages for each direction and two-way, for collected gap bin data. Annual totals for the same will be included. The current gap categories for all sites except the Upper Norquay Road ATR site 11300030 are as follows:

Bin	Gap Bin Criteria	
1	0 sec.	<= 1 sec.
2	> 1 sec.	<= 3 sec.
3	> 3 sec.	<= 5 sec.
4	> 5 sec.	<=10 sec.
5	> 10 sec.	<= 20 sec.
6	> 20 sec.	<= 30 sec.
7	> 30 sec.	

The gap categories for the Upper Norquay Road ATR site 11300030 are as follows:

Bin	Gap Bin Criteria	
1	0 sec.	<= 6 sec.
2	> 6 sec.	<= 30 sec.
3	> 30 sec.	<= 120 sec.
4	> 120 sec.	<= 240 sec.
5	> 240 sec.	<= 480 sec.
6	> 480 sec.	<= 990 sec.
7	> 990 sec.	

4.4.8.4 Annual Classification Report: The annual classification report will report monthly total volume, volume and volume percentages for each direction and two-way, for collected gap bin data for the periods of 24Hrs, Day and Night. Annual totals for the same will be included. Annual classification reports will only be produced if current turning movement calibration data is available. The classification types to be included in this report are: PV, RV, Bus, Trucks (SU and TTC) and Other (if warranted).

4.4.9 Hourly Volumetric ATR Reports from Cellular Sites

4.4.9.1 Each report will be arranged the same as a Monthly Volumetric ATR report summarized into total two-way and directional traffic. Monthly reports will report hourly volumes, daily volume totals, monthly volume total and MADT (Monthly Average Daily Traffic) for directional and total two-way traffic. The report data will fill in hourly as data becomes available through the cellular network.

4.4.9.2 A dynamic online map shall be provided with clickable geo-located ATR sites that provide a list of individual hourly and historical monthly reports in an intuitive interface that 75% of end users can use without training. The hourly ATR sites shall be identified on the map using an icon which differentiates it from non-cellular ATR sites.

4.4.10 Hourly Notification Emails of Threshold Volume Exceeded from Cellular Sites

4.4.10.1 Directional thresholds for each cellular ATR site shall be configurable. For each ATR site, when a threshold has been exceeded, an email shall be sent to a notification list maintained by the contractor.

4.4.10.2 Thresholds shall be set as follows. A high value is specified for Westbound/Northbound traffic so that notifications aren't distributed for high volumes of traffic leaving parking lots.

ATR ID	Eastbound/Southbound threshold volume (uphill)	Westbound/Northbound threshold volume (downhill)
11800002	175	1000
11800201	475	1000
11800302	400	1000

4.4.10.3 There may be times when a cellular ATR site cannot be contacted due to cellular issues beyond the contractor's control. If a site is not accessible, a connection shall be re-tried within an hour. If the attempt to retry connecting is not successful, an email shall be sent to the notification list after the second unsuccessful connection attempt. The email shall indicate which ATR Site has gone offline.

4.4.10.4 When a connection to a site that was previously offline has been re-established, an email shall be sent to the notification list containing information that no data was lost, or a summary indicating the period(s) of time for which data could not be recovered.

4.5 Installation of New ATR Sites

4.5.1 Installation, operation, maintenance, data retrieval, and replacement of additional ATRs may be added to this contract. Parks Canada will inform the contractor of the additional site requirements if any. The contractor shall retrieve data and maintain new sites as described in section 4.0.

4.5.2 New Classifier and Volumetric sites require installation of in-road loop sensors and site infrastructure: cabinet, post, solar panel, wiring, battery and regulator.

4.5.3 Volumetric site installation costs do not include the cost of the Golden River 3031 volumetric counter hardware. The spare supply of Golden River 3031 hardware is sufficient to supply any new volumetric site installations.

4.5.4 Classifier site installation costs do not include the cost of purchasing new Golden River M660 or Golden River M680 classifier hardware. Classifier hardware is to be priced separately.

4.6 Loop Installation and Repair

4.6.1 The contractor will immediately report any loop failures to Parks Canada. The loop shall be repaired, re-installed or the ATR moved to another site selected by Parks Canada after written approval to proceed with the work request has been received by the contractor from Parks Canada.

4.6.2 Loops shall be installed and repaired as per ITE guidelines

4.6.3 The contractor will provide Parks Canada with a schedule to undertake the work within two weeks of receiving a list of installation sites.

4.6.4 Loop installation and repair can only occur during daylight hours (1/2 hour after sunrise to 1/2 hour before sunset) and during months where the mean temperature is + 5 °C. The driving surface must be in good dry driving condition.

4.6.5 The contractor shall comply with the National Parks Act and obtain Parks Canada construction permits to perform the required work.

4.6.6 The contractor shall comply with all federal and provincial safety standards while working within the highway right of way.

4.6.7 The contractor, while working within the highway right of way shall ensure that the traffic control used, along with the apparel worn conform to OH&S, Parks Canada Standards, and any other applicable statutes. Traffic control shall be supplied by the contractor at his cost.

4.6.8 The contractor will notify the local Parks Canada Highways Manager and local R.C.M.P. one week prior to the commencement of work at each installation.

4.6.9 The contractor will undertake inductance testing of any loop installed at the time of installation.

4.6.10 The contractor will complete a "Work Performed Report" pre-approved by Parks Canada.

5.0 GENERAL INFORMATION

5.1 The contractor shall not carry out any additional work under the contract without the prior written authorization from the Parks Canada contracting authority. See contract clause 5.1 Contract Authority.

5.2 Parks Canada retains ownership of all equipment and both raw and processed data. No copies are to be made by the contractor for his or anyone else's use.

5.3 The contractor will be responsible for all labour, supplies and equipment required to carry out the necessary work.

5.4 The contractor must not use the Parks Canada logo on any of the statistical forms.

5.5 All records of field work are to be returned to Parks Canada.

5.6 All reports provided to Parks Canada must be in a predetermined electronic format on the following mediums:

- Format: Microsoft Excel 2007 through 2013 Open XML format with multiple reports from each reporting period compressed in a single zip file
- Medium: email and a dynamic online map with clickable geo-located ATR sites that provide a list of current and historical individual monthly reports.

5.7 The contractor shall abide by National Parks Act, and all Federal and Provincial legislation, Statutes, Regulations, etc.

5.8 The contractor shall sign and comply with the Attestation and Proof of Compliance with Occupational Health and Safety (OHS) form as per Annex D.

6.0 PAYMENT

6.1 The contractor is to submit bi-monthly (6 per year) invoices to Parks Canada as per the Basis of Payment Annex B.

6.2 Payment will be made based on a bi-monthly (6 per year) unit price as per the Basis of Payment Annex B to provide the data retrieval, reporting, maintenance, repair, and equipment replacement service for each of the ATRs administered by Parks Canada.

6.3 For the ATR(s) administered by the Province of Alberta, payment will be made based on a bi-monthly (6 per year) unit price to provide the data retrieval and reporting services only as per the Basis of Payment Annex B (maintenance is paid for by the Province of Alberta).

Annex A.1. Automated Traffic Recorder Sites

ATR ID	HWY OR TOWN	SITE LOCATION DESCRIPTION	SITE TYPE	MAINTAINED BY
10100300	1	2.5KM E OF MINNEWANKA ON TCH	CLASSIFIER	PCA
10100500	1	0.7 KM E OF NORQUAY ON TCH	VOLUMETRIC	PCA
10107211	1	TCH WB & WB RAMP LK. LOUISE INTERCH.	VOLUMETRIC	PCA
10107251	1	TCH EB & EB RAMP LK. LOUISE INTERCH.	VOLUMETRIC	PCA
10107300	1	0.7 KM W LAKE LOUISE DR & TCH	CLASSIFIER	PCA
10200401	93	4.5 KM N TCH & 93 NIBLOCK	CLASSIFIER	PCA
10201501	93	2.0 KM N HWY 93 & NUM TI JAH RD	CLASSIFIER	PCA
10212101	93	0.3 KM S BANFF - JASPER BORDER	VOLUMETRIC	PCA
10300701	93	6.1 KM S TCH & 93 LAKE LOUISE	CLASSIFIER	PCA
10400100	1A	1.4 KM W TCH & BVP (COLLECTS TIMESTAMP DATA)	CLASSIFIER	PCA
10400600	1A	4.1 KM E OF JC CAMPGROUND ON BVP	VOLUMETRIC	PCA
10404701	1A	1.6 KM E WHITEHORN RD & BVP	VOLUMETRIC	PCA
11000071	Banff	MINNENWANKA RD 0.4 KM N of TCH	VOLUMETRIC	PCA
11100002	Lake Louise	2.1 KM E LAKE LOUISE DR & MORAINÉ LAKE RD (CELLULAR)	CLASSIFIER	PCA
11300010	Banff	LOWER NORQUAY ROAD	VOLUMETRIC	PCA
11300030	Banff	UPPER NORQUAY ROAD (CELLULAR)	CLASSIFIER	PCA
11700002	Banff	SUNSHINE ROAD	VOLUMETRIC	PCA
11700010	Banff	BANFF GOLF COURSE ROAD	CLASSIFIER	PCA
11800100	Lake Louise	0.1 KM S TCH & LK. LOUISE DR	VOLUMETRIC	PCA
11800201	Lake Louise	2.15 KM S TCH & LK. LOUISE DR (CELLULAR)	VOLUMETRIC	PCA
11800302	Lake Louise	3.6 KM S 1 & LAKE LOUISE DR (CELLULAR)	CLASSIFIER	PCA
12000101	Lake Louise	0.6 KM N BVP & WHITEHORN ROAD	VOLUMETRIC	PCA
14000101	Banff	UPPER HOT SPRINGS RD 1.2 KM S MOUNTAIN Ave.	VOLUMETRIC	PCA
30103509	16	18.00 KM E HWY 16 & JASPER (AIRPORT)	CLASSIFIER	PCA
30107201	16	19.1 KM W HWY 93 & 16 JASPER TOWNSITE	VOLUMETRIC	PCA
30215001	93	5.4 KM S HWY 16 & 93 JASPER	CLASSIFIER	PCA
40309000	93	3.0 KM N OF SETTLERS RD ON HWY 93S	VOLUMETRIC	PCA
40310601	93	KOOTENAY PARK - WEST GATE (RADIUM)	VOLUMETRIC	PCA
50010040	1	1.4 KM W TCH & 93 CASTLE JUNCTION	CLASSIFIER	PCA
50010050	1	1.6 KM W BANFF PARK GATES	VOLUMETRIC	PCA
50010080	1	0.6 KM E OF FIELD ON TCH	CLASSIFIER	PCA
50010090	1	0.5 KM W OF FIELD ON TCH	VOLUMETRIC	PCA
50010450	1	1.2 KM E OF CASTLE JCT ON TCH	CLASSIFIER	PCA
50100301	1	5.0 KM W TCH & GLACIER PARK BOUNDARY	VOLUMETRIC	PCA
50102407	1	0.7 KM W TCH & ROGERS PASS CENTRE	CLASSIFIER	PCA
50110250	11	2.3 KM E BANFF PARK GATE	VOLUMETRIC	PCA
50160210	16	E JASPER PARK GATES	VOLUMETRIC	Alberta
80108501	1	ALTA - BC BORDER	VOLUMETRIC	PCA

Annex A.2. Spare Automated Traffic Recorders

Golden River 3031 Volumetric Counters

SERIAL #	MODEL #	STATUS
4057	GR3031	SPARE
4058	GR3031	SPARE
4065	GR3031	SPARE
4068	GR3031	SPARE
4070	GR3031	SPARE
4073	GR3031	SPARE
5384	GR3031	SPARE
5386	GR3031	SPARE
5388	GR3031	SPARE
5396	GR3031	SPARE

Golden River M660 Classifiers

SERIAL #	MODEL #	STATUS
155768	GR M660	SPARE
168239	GR M660	SPARE

ANNEX "B"

BASIS OF PAYMENT

- Firm prices/rates per period (inclusive of all labour and expenses) for the work for all years of the contract including option years is listed.
- Price is exclusive of Tax. The HST/GST is to be identified as a separate amount on all invoices.
- The prices per unit shall govern in establishing the Total Extended Amount. Any arithmetical errors in this Annex will be corrected by Canada.

Note: Pricing includes all costs associated with completing the work including but not limited to all supplies, equipment, Mobilization, De-Mobilization, travel etc.

Price

The total amount bid for the one firm year and two option years is:

Firm Year

Physical Data Retrieval and Maintenance

Line Item 1A) (Add 1A.1 to 1A.38) \$ _____

Cellular Data Retrieval

Line Item 2A) (Add 2A.1 to 2A.4) \$ _____

Reports

Line Item 3A) (Add 3A.1 to 3A.2) \$ _____

Site Activation and Deactivation

Line Item 4A) (Add 4A.1 to 4A.3) \$ _____

ATR Infrastructure Changes

Line Item 5A) (Add 5A.1 to 5A.2) \$ _____

ATRs to Replenish Spare Float

Line Item 6A) (Add 6A.1 to 6A.2) \$ _____

Site Repair – Preventative Work

Line Item 7A) (Add 7A.1 to 7A.2) \$ _____

As and When Required Work

Line Item 2.2A) (Add 2.2A.1 to 2.2A.4) \$ _____

Firm Year Total (1A+2A+3A+4A+5A+6A+7A+2.2A) \$ _____

Option Year 1

Physical Data Retrieval and Maintenance

Line Item 1B) (Add 1B.1 to 1B.38) \$ _____

Cellular Data Retrieval

Line Item 2B) (Add 2B.1 to 2B.4) \$ _____

Reports

Line Item 3B) (Add 3B.1 to 3B.2) \$ _____

Site Activation and Deactivation

Line Item 4B) (Add 4B.1 to 4B.3) \$ _____

As and When Required Work

Line Item 2.2B) (Add 2.2B.1 to 2.2B.4) \$ _____

Option Year 1 Total (1B+2B+3B+4B+2.2B) \$ _____

Option Year 2

Physical Data Retrieval and Maintenance

Line Item 1C) (Add 1C.1 to 1C.38) \$ _____

Cellular Data Retrieval

Line Item 2C) (Add 2C.1 to 2C.4) \$ _____

Reports

Line Item 3C) (Add 3C.1 to 3C.2) \$ _____

Site Activation and Deactivation

Line Item 4C) (Add 4C.1 to 4C.3) \$ _____

As and When Required Work

Line Item 2.2C) (Add 2.2C.1 to 2.2C.4) \$ _____

Option Year 2 Total (1C+2C+3C+4C+2.2C) \$ _____

Total Bid \$ _____

Basis of Payment - Firm Year

2.1 Firm Price Work: Firm Year

1A Firm Year – June 1, 2017 to March 31, 2018

Physical Data Retrieval and Maintenance

Charges related to travelling to, operating, and data retrieval from the ATRs shall be included in the price per site visit. Do not include charges related to cellular data plans, cellular data retrieval, hourly reporting or email alerts. Refer to section 6.0 for further payment information.

ITEM	ATR ID	SITE LOCATION DESCRIPTION	PARK	SITE VISITS	PRICE PER SITE VISIT	EXTENDED TOTAL
1A.1	10100300	2.5KM E OF MINNEWANKA ON TCH	BNP	5		
1A.2	10100500	0.7 KM E OF NORQUAY ON TCH	BNP	5		
1A.3	10107211	TCH WB & WB RAMP LK. LOUISE INTERCH.	BNP	5		
1A.4	10107251	TCH EB & EB RAMP LK. LOUISE INTERCH.	BNP	5		
1A.5	10107300	0.7 KM W LAKE LOUISE DR & TCH	BNP	5		
1A.6	10200401	4.5 KM N TCH & 93 NIBLOCK	BNP	5		
1A.7	10201501	2.0 KM N HWY 93 & NUM TI JAH RD	BNP	5		
1A.8	10212101	0.3 KM S BANFF - JASPER BORDER	BNP	5		
1A.9	10300701	6.1 KM S TCH & 93 LAKE LOUISE	BNP	5		
1A.10	10400100	1.4 KM W TCH & BVP ³	BNP	5		
1A.11	10400600	4.1 KM E OF JC CAMPGROUND ON BVP	BNP	5		
1A.12	10404701	1.6 KM E WHITEHORN RD & BVP	BNP	5		
1A.13	11000071	MINNENWANKA RD 0.4 KM N of TCH	BNP	5		
1A.14	11100002	2.1 KM E LAKE LOUISE DR & MORAINÉ LAKE RD ^{1,2}	BNP	5		
1A.15	11300010	LOWER NORQUAY ROAD	BNP	5		
1A.16	11300030	UPPER NORQUAY ROAD ^{1,2}	BNP	5		
1A.17	11700002	SUNSHINE ROAD	BNP	5		
1A.18	11700010	BANFF GOLF COURSE ROAD	BNP	5		
1A.19	11800100	0.1 KM S TCH & LK. LOUISE DR	BNP	5		
1A.20	11800201	2.15 KM S TCH & LK. LOUISE DR ^{1,2}	BNP	5		
1A.21	11800302	3.6 KM S 1 & LAKE LOUISE DR ^{1,2}	BNP	5		
1A.22	12000101	0.6 KM N BVP & WHITEHORN ROAD	BNP	5		
1A.23	14000101	UPPER HOT SPRINGS RD 1.2 KM S MOUNTAIN Ave.	BNP	5		
1A.24	30103509	18.00 KM E HWY 16 & JASPER (AIRPORT)	JNP	5		
1A.25	30107201	19.1 KM W HWY 93 & 16 JASPER TOWNSITE	JNP	5		
1A.26	30215001	5.4 KM S HWY 16 & 93 JASPER	JNP	5		
1A.27	40309000	3.0 KM N OF SETTLERS RD ON HWY 93S	KNP	5		
1A.28	40310601	KOOTENAY PARK - WEST GATE (RADIUM)	KNP	5		
1A.29	50010040	1.4 KM W TCH & 93 CASTLE JUNCTION	BNP	5		
1A.30	50010050	1.6 KM W BANFF PARK GATES	BNP	5		
1A.31	50010080	0.6 KM E OF FIELD ON TCH	YNP	5		
1A.32	50010090	0.5 KM W OF FIELD ON TCH	YNP	5		
1A.33	50010450	1.2 KM E OF CASTLE JCT ON TCH	BNP	5		
1A.34	50100301	5.0 KM W TCH & GLACIER PARK BOUNDARY	GNP	5		
1A.35	50102407	0.7 KM W TCH & ROGERS PASS CENTRE	GNP	5		
1A.36	50110250	2.3 KM E BANFF PARK GATE	BNP	5		
1A.37	50160210	E JASPER PARK GATES	JNP	5		
1A.38	80108501	ALTA - BC BORDER	YNP	5		
SUBTOTAL 1A FOR DATA RETRIEVAL AND MAINTENANCE June 1, 2017 – March 31, 2018 Firm Year (add 1A.1 to 1A.38) Transfer this amount to Bid Line item 1A						

¹ Site has upgraded capabilities to supply hourly data over a cellular data network

² Site operates as a cellular site only between the months of June and November inclusive

³ Site collects extra "Timestamp" data

2A Firm Year – June 1, 2017 to March 31, 2018

Cellular Data Retrieval

Charges related to cellular data plans, cellular data retrieval, processing and updating hourly reports and distribution of email alerts from specific ATRs marked as cellular shall be included in the price per site visit. Refer to section 6.0 for further payment information.

ITEM	ATR ID	SITE LOCATION DESCRIPTION	PARK	REPORT PERIODS	PRICE PER REPORT PERIOD	EXTENDED TOTAL
2A.1	11100002	2.1 KM E LAKE LOUISE DR & MORAINÉ LAKE RD ^{1,2}	BNP	3		
2A.2	11300030	UPPER NORQUAY ROAD ¹	BNP	5		
2A.3	11800201	2.15 KM S TCH & LK. LOUISE DR ^{1,2,4}	BNP	3		
2A.4	11800302	3.6 KM S 1 & LAKE LOUISE DR ^{1,2}	BNP	3		
SUBTOTAL 2A FOR CELLULAR DATA RETRIEVAL June 1, 2017 – March 31, 2018 Firm Year (add 2A.1 to 2A.4) Transfer this amount to Bid Line item 2A						

¹ Site has upgraded capabilities to supply hourly data over a cellular data network

² Site operates as a cellular site only between the months of June and November inclusive

⁴ Site operates as a physical download (non-cellular) site between the months of December and May inclusive

3A Firm Year – June 1, 2017 to March 31, 2018

Reports

Refer to section 4.4.4 for missing data policy. Sections 4.4.5 and 4.4.6 detail specifications for Volumetric reports. Sections 4.4.7 and 4.4.8 detail specifications for Speed and Class reports. All ATRs will have Volumetric reports produced and only Classifiers require Speed and Class reports. Refer to Annex A.1 for list of site types.

ITEM	REPORT TYPE	NUMBER OF REPORTS	PRICE PER REPORT	EXTENDED TOTAL
3A.1	Bi-monthly (1 per site visit) Volumetric Reports for 38 ATRs ⁵	186		
3A.2	Bi-monthly (1 per site visit) Speed and Class Reports for 16 ATRs	76		
SUBTOTAL 3A FOR REPORTS June 1, 2017 – March 31, 2018 Firm Year (add 3A.1 to 3A.2) Transfer this amount to Bid Line item 3A				

⁵ Of the 38 ATR network, two classifier ATRs are inactive for three reporting periods, the 36 others provide year-round data

4A Firm Year – June 1, 2017 to March 31, 2018

Site Activation and Deactivation

Charges related to activation of sites that are used to collect seasonal data shall be included in the activation price. Activation charges shall include site testing, hardware installation, activation of cellular data plans, and activation of hourly monitoring, reporting and email notification. Charges related to deactivation of sites during off-season periods shall be included in the deactivation price. Deactivation charges shall include securing site for off-season, hardware removal, deactivation of cellular data plans, and deactivation of hourly monitoring, reporting and email notification. Unless otherwise noted, site activations and deactivations shall align with the bi-monthly data retrieval schedule as outlined in section 4.3.5. Site activation occurs in June, deactivation occurs in November. Charges for November Site Visits are accounted for in table 1A. Refer to section 6.0 for further payment information.

ITEM	ATR ID	SITE LOCATION DESCRIPTION	PARK	ACTIVATION PRICE	DEACTIVATION PRICE	EXTENDED TOTAL
4A.1	11100002	2.1 KM E LAKE LOUISE DR & MORAINÉ LAKE RD ^{6,8}	BNP			
4A.2	11800201	2.15 KM S TCH & LK. LOUISE DR ⁷	BNP			
4A.3	11800302	3.6 KM S 1 & LAKE LOUISE DR ⁶	BNP			
SUBTOTAL 4A FOR SITE ACTIVATION AND DEACTIVATION June 1, 2017 – March 31, 2018 Firm Year (add 4A.1 to 4A.3) Transfer this amount to Bid Line item 4A						

⁶ Site activation/deactivation includes installation/removal of ATR and activation/deactivation of cellular capabilities to supply hourly data over a cellular data network

⁷ Site is active year-round as a physical download site. Only cellular capability activation and deactivation is required to supply hourly data over a cellular data network

⁸ Site 11100002 is inaccessible by contractor for deactivation as road is closed to traffic during off-season. Park staff will remove ATR hardware and deactivate as instructed by contractor. All ATR hardware removed from cabinet will be transferred to contractor in a mutually agreed upon manner.

5A Firm Year – June 1, 2017 to March 31, 2018

ATR Infrastructure Changes

ATRs are to be installed as per the guidelines provided in section 4.5. Loop sensors are to be installed as per the guidelines provided in section 4.6.

ITEM	ATR ID	WORK DESCRIPTION	NUMBER OF LANES	SITE TYPE	EXTENDED TOTAL
5A.1	11800302	Two loop installation in Northbound lane. Only Southbound lane is currently operational. To be completed before June 1 2017.	1	CLASSIFIER	
5A.2	80108501	Site infrastructure to be permanently moved approximately 2.5 kilometres east to accommodate 2017 highway twinning work in Yoho National Park.	4	VOLUMETRIC	
SUBTOTAL 5A FOR ATR INFRASTRUCTURE CHANGES June 1, 2017 – March 31, 2018 Firm Year (add 5A.1 to 5A.2) Transfer this amount to Bid Line item 5A					

6A Firm Year – June 1, 2017 to March 31, 2018

ATRs to Replenish Spare Float

Refer to section 4.2 and 4.2.6 for the requirements around the spare ATR float.

ITEM	ATR DESCRIPTION	QUANTITY	UNIT PRICE	EXTENDED TOTAL
6A.1	Golden River M660 Classifier	2		
6A.2	Golden River M680 Classifier	1		
SUBTOTAL 6A FOR ATRs TO REPLENISH SPARE FLOAT June 1, 2017 – March 31, 2018 Firm Year (add 6A.1 to 6A.2) Transfer this amount to Bid Line item 6A				

7A Firm Year – June 1, 2017 to March 31, 2018

Site Repair – Preventative Work

Site repair work will ideally be scheduled to occur during non-peak summer periods so that lower importance data is “missing or corrupted”. Data from busy traffic periods are more valuable to collect.

Equipment is to be installed as per the guidelines provided in section 4.5. Site repair work shall not impact more than 12 hours of traffic data for each site. If there is more than the allowed 12 hours of data “missing or corrupted”, payment for work completed under this task 7A will be prorated based on the maximum allowable hours of data lost divided by the total number of hours of data lost. For example if during the preventative work, item 7A.1 has 14 hours of “missing or corrupted” data and item 7A.2 has 10 hours of “missing or corrupted” data, payment for 7A.1 will be for 12/14 x the unit price (or 85.7%) and payment for 7A.2 will be 100% of the unit price.

ITEM	ATR ID	WORK DESCRIPTION	UNIT PRICE	EXTENDED TOTAL
7A.1	11000071	Site is functional but requires preventative work by replacing Enclosure, Post, Solar Charging System, Wiring. Induction loops are in good condition.		
7A.2	11300010	Site is functional but requires preventative work by replacing Enclosure, Post, Solar Charging System, Wiring. Induction loops are in good condition.		
SUBTOTAL 7A FOR SITE REPAIR – PREVENTATIVE WORK June 1, 2017 – March 31, 2018 Firm Year (add 7A.1 to 7A.2) Transfer this amount to Bid Line item 7A				

2.2 As and When Required Work: Firm Year

2.2A Firm Year – June 1, 2017 to March 31, 2018

As and When Required Work

Applies only if requested by Parks Canada. To be performed at a time agreeable to both the contractor and Parks Canada.

ITEM	ITEM DESCRIPTION	QUANTITY	UNIT PRICE	EXTENDED PRICE
2.2A.1	Two loop site installation (see section 4.5)	1		
2.2A.2	Four loop site installation (see section 4.5)	1		
2.2A.3	Eight loop site installation (see section 4.5)	1		
2.2A.4	One Golden River M660 Classifier	1		
SUBTOTAL 2.2A FOR AS AND WHEN REQUIRED WORK June 1, 2017 – March 31, 2018 Firm Year (add 2.2A.1 to 2.2A.4) Transfer this amount to Bid Line item 2.2A				

Basis of Payment - Option Year 1

2.1 Firm Price Work: Option Year 1

1B Option Year 1 – April 1, 2018 to March 31, 2019

Physical Data Retrieval and Maintenance

Charges related to travelling to, operating, and data retrieval from the ATRs shall be included in the price per site visit. Do not include charges related to cellular data plans, cellular data retrieval, hourly reporting or email alerts. Refer to section 6.0 for further payment information.

ITEM	ATR ID	SITE LOCATION DESCRIPTION	PARK	SITE VISITS	PRICE PER SITE VISIT	EXTENDED TOTAL
1B.1	10100300	2.5KM E OF MINNEWANKA ON TCH	BNP	6		
1B.2	10100500	0.7 KM E OF NORQUAY ON TCH	BNP	6		
1B.3	10107211	TCH WB & WB RAMP LK. LOUISE INTERCH.	BNP	6		
1B.4	10107251	TCH EB & EB RAMP LK. LOUISE INTERCH.	BNP	6		
1B.5	10107300	0.7 KM W LAKE LOUISE DR & TCH	BNP	6		
1B.6	10200401	4.5 KM N TCH & 93 NIBLOCK	BNP	6		
1B.7	10201501	2.0 KM N HWY 93 & NUM TI JAH RD	BNP	6		
1B.8	10212101	0.3 KM S BANFF - JASPER BORDER	BNP	6		
1B.9	10300701	6.1 KM S TCH & 93 LAKE LOUISE	BNP	6		
1B.10	10400100	1.4 KM W TCH & BVP ³	BNP	6		
1B.11	10400600	4.1 KM E OF JC CAMPGROUND ON BVP	BNP	6		
1B.12	10404701	1.6 KM E WHITEHORN RD & BVP	BNP	6		
1B.13	11000071	MINNENWANKA RD 0.4 KM N of TCH	BNP	6		
1B.14	11100002	2.1 KM E LAKE LOUISE DR & MORAINÉ LAKE RD ^{1,2}	BNP	3		
1B.15	11300010	LOWER NORQUAY ROAD	BNP	6		
1B.16	11300030	UPPER NORQUAY ROAD ^{1,2}	BNP	6		
1B.17	11700002	SUNSHINE ROAD	BNP	6		
1B.18	11700010	BANFF GOLF COURSE ROAD	BNP	6		
1B.19	11800100	0.1 KM S TCH & LK. LOUISE DR	BNP	6		
1B.20	11800201	2.15 KM S TCH & LK. LOUISE DR ^{1,2}	BNP	6		
1B.21	11800302	3.6 KM S 1 & LAKE LOUISE DR ^{1,2}	BNP	3		
1B.22	12000101	0.6 KM N BVP & WHITEHORN ROAD	BNP	6		
1B.23	14000101	UPPER HOT SPRINGS RD 1.2 KM S MOUNTAIN Ave.	BNP	6		
1B.24	30103509	18.00 KM E HWY 16 & JASPER (AIRPORT)	JNP	6		
1B.25	30107201	19.1 KM W HWY 93 & 16 JASPER TOWNSITE	JNP	6		
1B.26	30215001	5.4 KM S HWY 16 & 93 JASPER	JNP	6		
1B.27	40309000	3.0 KM N OF SETTLERS RD ON HWY 93S	KNP	6		
1B.28	40310601	KOOTENAY PARK - WEST GATE (RADIUM)	KNP	6		
1B.29	50010040	1.4 KM W TCH & 93 CASTLE JUNCTION	BNP	6		
1B.30	50010050	1.6 KM W BANFF PARK GATES	BNP	6		
1B.31	50010080	0.6 KM E OF FIELD ON TCH	YNP	6		
1B.32	50010090	0.5 KM W OF FIELD ON TCH	YNP	6		
1B.33	50010450	1.2 KM E OF CASTLE JCT ON TCH	BNP	6		
1B.34	50100301	5.0 KM W TCH & GLACIER PARK BOUNDARY	GNP	6		
1B.35	50102407	0.7 KM W TCH & ROGERS PASS CENTRE	GNP	6		
1B.36	50110250	2.3 KM E BANFF PARK GATE	BNP	6		
1B.37	50160210	E JASPER PARK GATES	JNP	6		
1B.38	80108501	ALTA - BC BORDER	YNP	6		
SUBTOTAL 1B FOR DATA RETRIEVAL AND MAINTENANCE April 1, 2018 – March 31, 2019 Option Year 1 (add 1B.1 to 1B.38) Transfer this amount to Bid Line item 1B						

¹ Site has upgraded capabilities to supply hourly data over a cellular data network

² Site operates as a cellular site only between the months of June and November inclusive

³ Site collects extra "Timestamp" data

2B Option Year 1 – April 1, 2018 to March 31, 2019

Cellular Data Retrieval

Charges related to cellular data plans, cellular data retrieval, processing and updating hourly reports and distribution of email alerts from specific ATRs marked as cellular shall be included in the price per site visit. Refer to section 6.0 for further payment information.

ITEM	ATR ID	SITE LOCATION DESCRIPTION	PARK	REPORT PERIODS	PRICE PER REPORT PERIOD	EXTENDED TOTAL
2B.1	11100002	2.1 KM E LAKE LOUISE DR & MORAINÉ LAKE RD ^{1,2}	BNP	3		
2B.2	11300030	UPPER NORQUAY ROAD ¹	BNP	6		
2B.3	11800201	2.15 KM S TCH & LK. LOUISE DR ^{1,2,4}	BNP	3		
2B.4	11800302	3.6 KM S 1 & LAKE LOUISE DR ^{1,2}	BNP	3		
SUBTOTAL 2B FOR CELLULAR DATA RETRIEVAL April 1, 2018 – March 31, 2019 Option Year 1 (add 2B.1 to 2B.4) Transfer this amount to Bid Line item 2B						

¹ Site has upgraded capabilities to supply hourly data over a cellular data network

² Site operates as a cellular site only between the months of June and November inclusive

⁴ Site operates as a physical download (non-cellular) site between the months of December and May inclusive

3B Option Year 1 – April 1, 2018 to March 31, 2019

Reports

Refer to section 4.4.4 for missing data policy. Sections 4.4.5 and 4.4.6 detail specifications for Volumetric reports. Sections 4.4.7 and 4.4.8 detail specifications for Speed and Class reports. All ATRs will have Volumetric reports produced and only Classifiers require Speed and Class reports. Refer to Annex A.1 for list of site types.

ITEM	REPORT TYPE	NUMBER OF REPORTS	PRICE PER REPORT	EXTENDED TOTAL
3B.1	Bi-monthly (1 per site visit) Volumetric Reports for 38 ATRs ⁵	222		
3B.2	Bi-monthly (1 per site visit) Speed and Class Reports for 16 ATRs	90		
SUBTOTAL 3B FOR REPORTS April 1, 2018 – March 31, 2019 Option Year 1 (add 3B.1 to 3B.2) Transfer this amount to Bid Line item 3B				

⁵ Of the 38 ATR network, two classifier ATRs are inactive for three reporting periods, the 36 others provide year-round data

4B Option Year 1 – April 1, 2018 to March 31, 2019

Site Activation and Deactivation

Charges related to activation of sites that are used to collect seasonal data shall be included in the activation price. Activation charges shall include site testing, hardware installation, activation of cellular data plans, and activation of hourly monitoring, reporting and email notification. Charges related to deactivation of sites during off-season periods shall be included in the deactivation price. Deactivation charges shall include securing site for off-season, hardware removal, deactivation of cellular data plans, and deactivation of hourly monitoring, reporting and email notification. Unless otherwise noted, site activations and deactivations shall align with the bi-monthly data retrieval schedule as outlined in section 4.3.5. Site activation occurs in June, deactivation occurs in November. Charges for November Site Visits are accounted for in table 1B. Refer to section 6.0 for further payment information.

ITEM	ATR ID	SITE LOCATION DESCRIPTION	PARK	ACTIVATION PRICE	DEACTIVATION PRICE	EXTENDED TOTAL
4B.1	11100002	2.1 KM E LAKE LOUISE DR & MORAINÉ LAKE RD ^{6,8}	BNP			
4B.2	11800201	2.15 KM S TCH & LK. LOUISE DR ⁷	BNP			
4B.3	11800302	3.6 KM S 1 & LAKE LOUISE DR ⁶	BNP			
SUBTOTAL 4B FOR SITE ACTIVATION AND DEACTIVATION April 1, 2018 – March 31, 2019 Option Year 1 (add 4B.1 to 4B.3) Transfer this amount to Bid Line item 4B						

⁶ Site activation/deactivation includes installation/removal of ATR and activation/deactivation of cellular capabilities to supply hourly data over a cellular data network

⁷ Site is active year-round as a physical download site. Only cellular capability activation and deactivation is required to supply hourly data over a cellular data network

⁸ Site 11100002 is inaccessible by contractor for deactivation as road is closed to traffic during off-season. Park staff will remove ATR hardware and deactivate as instructed by contractor. All ATR hardware removed from cabinet will be transferred to contractor in a mutually agreed upon manner.

2.2 As and When Required Work: Option Year 1**2.2B Option Year 1 – April 1, 2018 to March 31, 2019****As and When Required Work**

Applies only if requested by Parks Canada. To be performed at a time agreeable to both the contractor and Parks Canada.

ITEM	ITEM DESCRIPTION	QUANTITY	UNIT PRICE	EXTENDED PRICE
2.2B.1	Two loop site installation (see section 4.5)	1		
2.2B.2	Four loop site installation (see section 4.5)	1		
2.2B.3	Eight loop site installation (see section 4.5)	1		
2.2B.4	One Golden River M660 Classifier	1		
SUBTOTAL 2.2B FOR AS AND WHEN REQUIRED WORK April 1, 2018 – March 31, 2019 Option Year 1 (add 2.2B.1 to 2.2B.4) Transfer this amount to Bid Line item 2.2B				

Basis of Payment - Option Year 2

2.1 Firm Price Work: Option Year 2

1C Option Year 2 – April 1, 2019 to March 31, 2020

Physical Data Retrieval and Maintenance

Charges related to travelling to, operating, and data retrieval from the ATRs shall be included in the price per site visit. Do not include charges related to cellular data plans, cellular data retrieval, hourly reporting or email alerts. Refer to section 6.0 for further payment information.

ITEM	ATR ID	SITE LOCATION DESCRIPTION	PARK	SITE VISITS	PRICE PER SITE VISIT	EXTENDED TOTAL
1C.1	10100300	2.5KM E OF MINNEWANKA ON TCH	BNP	6		
1C.2	10100500	0.7 KM E OF NORQUAY ON TCH	BNP	6		
1C.3	10107211	TCH WB & WB RAMP LK. LOUISE INTERCH.	BNP	6		
1C.4	10107251	TCH EB & EB RAMP LK. LOUISE INTERCH.	BNP	6		
1C.5	10107300	0.7 KM W LAKE LOUISE DR & TCH	BNP	6		
1C.6	10200401	4.5 KM N TCH & 93 NIBLOCK	BNP	6		
1C.7	10201501	2.0 KM N HWY 93 & NUM TI JAH RD	BNP	6		
1C.8	10212101	0.3 KM S BANFF - JASPER BORDER	BNP	6		
1C.9	10300701	6.1 KM S TCH & 93 LAKE LOUISE	BNP	6		
1C.10	10400100	1.4 KM W TCH & BVP ³	BNP	6		
1C.11	10400600	4.1 KM E OF JC CAMPGROUND ON BVP	BNP	6		
1C.12	10404701	1.6 KM E WHITEHORN RD & BVP	BNP	6		
1C.13	11000071	MINNENWANKA RD 0.4 KM N of TCH	BNP	6		
1C.14	11100002	2.1 KM E LAKE LOUISE DR & MORAIN LAKE RD ^{1,2}	BNP	3		
1C.15	11300010	LOWER NORQUAY ROAD	BNP	6		
1C.16	11300030	UPPER NORQUAY ROAD ^{1,2}	BNP	6		
1C.17	11700002	SUNSHINE ROAD	BNP	6		
1C.18	11700010	BANFF GOLF COURSE ROAD	BNP	6		
1C.19	11800100	0.1 KM S TCH & LK. LOUISE DR	BNP	6		
1C.20	11800201	2.15 KM S TCH & LK. LOUISE DR ^{1,2}	BNP	6		
1C.21	11800302	3.6 KM S 1 & LAKE LOUISE DR ^{1,2}	BNP	3		
1C.22	12000101	0.6 KM N BVP & WHITEHORN ROAD	BNP	6		
1C.23	14000101	UPPER HOT SPRINGS RD 1.2 KM S MOUNTAIN Ave.	BNP	6		
1C.24	30103509	18.00 KM E HWY 16 & JASPER (AIRPORT)	JNP	6		
1C.25	30107201	19.1 KM W HWY 93 & 16 JASPER TOWNSITE	JNP	6		
1C.26	30215001	5.4 KM S HWY 16 & 93 JASPER	JNP	6		
1C.27	40309000	3.0 KM N OF SETTLERS RD ON HWY 93S	KNP	6		
1C.28	40310601	KOOTENAY PARK - WEST GATE (RADIUM)	KNP	6		
1C.29	50010040	1.4 KM W TCH & 93 CASTLE JUNCTION	BNP	6		
1C.30	50010050	1.6 KM W BANFF PARK GATES	BNP	6		
1C.31	50010080	0.6 KM E OF FIELD ON TCH	YNP	6		
1C.32	50010090	0.5 KM W OF FIELD ON TCH	YNP	6		
1C.33	50010450	1.2 KM E OF CASTLE JCT ON TCH	BNP	6		
1C.34	50100301	5.0 KM W TCH & GLACIER PARK BOUNDARY	GNP	6		
1C.35	50102407	0.7 KM W TCH & ROGERS PASS CENTRE	GNP	6		
1C.36	50110250	2.3 KM E BANFF PARK GATE	BNP	6		
1C.37	50160210	E JASPER PARK GATES	JNP	6		
1C.38	80108501	ALTA - BC BORDER	YNP	6		
SUBTOTAL 1C FOR DATA RETRIEVAL AND MAINTENANCE April 1, 2019 to March 31, 2020 Option Year 2 (add 1C.1 to 1C.38) Transfer this amount to Bid Line item 1C						

¹ Site has upgraded capabilities to supply hourly data over a cellular data network

² Site operates as a cellular site only between the months of June and November inclusive

³ Site collects extra "Timestamp" data

2C Option Year 2 – April 1, 2019 to March 31, 2020

Cellular Data Retrieval

Charges related to cellular data plans, cellular data retrieval, processing and updating hourly reports and distribution of email alerts from specific ATRs marked as cellular shall be included in the price per site visit. Refer to section 6.0 for further payment information.

ITEM	ATR ID	SITE LOCATION DESCRIPTION	PARK	REPORT PERIODS	PRICE PER REPORT PERIOD	EXTENDED TOTAL
2C.1	11100002	2.1 KM E LAKE LOUISE DR & MORAINÉ LAKE RD ^{1,2}	BNP	3		
2C.2	11300030	UPPER NORQUAY ROAD ¹	BNP	6		
2C.3	11800201	2.15 KM S TCH & LK. LOUISE DR ^{1,2,4}	BNP	3		
2C.4	11800302	3.6 KM S 1 & LAKE LOUISE DR ^{1,2}	BNP	3		
SUBTOTAL 2C FOR CELLULAR DATA RETRIEVAL April 1, 2019 to March 31, 2020 Option Year 2 (add 2C.1 to 2C.4) Transfer this amount to Bid Line item 2C						

¹ Site has upgraded capabilities to supply hourly data over a cellular data network

² Site operates as a cellular site only between the months of June and November inclusive

⁴ Site operates as a physical download (non-cellular) site between the months of December and May inclusive

3C Option Year 2 – April 1, 2019 to March 31, 2020

Reports

Refer to section 4.4.4 for missing data policy. Sections 4.4.5 and 4.4.6 detail specifications for Volumetric reports. Sections 4.4.7 and 4.4.8 detail specifications for Speed and Class reports. All ATRs will have Volumetric reports produced and only Classifiers require Speed and Class reports. Refer to Annex A.1 for list of site types.

ITEM	REPORT TYPE	NUMBER OF REPORTS	PRICE PER REPORT	EXTENDED TOTAL
3C.1	Bi-monthly (1 per site visit) Volumetric Reports for 38 ATRs ⁵	222		
3C.2	Bi-monthly (1 per site visit) Speed and Class Reports for 16 ATRs	90		
SUBTOTAL 3C FOR REPORTS April 1, 2019 to March 31, 2020 Option Year 2 (add 3C.1 to 3C.2) Transfer this amount to Bid Line item 3C				

⁵ Of the 38 ATR network, two classifier ATRs are inactive for three reporting periods, the 36 others provide year-round data

4C Option Year 2 – April 1, 2019 to March 31, 2020

Site Activation and Deactivation

Charges related to activation of sites that are used to collect seasonal data shall be included in the activation price. Activation charges shall include site testing, hardware installation, activation of cellular data plans, and activation of hourly monitoring, reporting and email notification. Charges related to deactivation of sites during off-season periods shall be included in the deactivation price. Deactivation charges shall include securing site for off-season, hardware removal, deactivation of cellular data plans, and deactivation of hourly monitoring, reporting and email notification. Unless otherwise noted, site activations and deactivations shall align with the bi-monthly data retrieval schedule as outlined in section 4.3.5. Site activation occurs in June, deactivation occurs in November. Charges for November Site Visits are accounted for in table 1C. Refer to section 6.0 for further payment information.

ITEM	ATR ID	SITE LOCATION DESCRIPTION	PARK	ACTIVATION PRICE	DEACTIVATION PRICE	EXTENDED TOTAL
4C.1	11100002	2.1 KM E LAKE LOUISE DR & MORAINÉ LAKE RD ^{6,8}	BNP			
4C.2	11800201	2.15 KM S TCH & LK. LOUISE DR ⁷	BNP			
4C.3	11800302	3.6 KM S 1 & LAKE LOUISE DR ⁶	BNP			
SUBTOTAL 4C FOR SITE ACTIVATION AND DEACTIVATION April 1, 2019 – March 31, 2020 Option Year 2 (add 4C.1 to 4C.3) Transfer this amount to Bid Line item 4C						

⁶ Site activation/deactivation includes installation/removal of ATR and activation/deactivation of cellular capabilities to supply hourly data over a cellular data network

⁷ Site is active year-round as a physical download site. Only cellular capability activation and deactivation is required to supply hourly data over a cellular data network

⁸ Site 11100002 is inaccessible by contractor for deactivation as road is closed to traffic during off-season. Park staff will remove ATR hardware and deactivate as instructed by contractor. All ATR hardware removed from cabinet will be transferred to contractor in a mutually agreed upon manner.

2.2 As and When Required Work: Option Year 2

2.2C Option Year 2 – April 1, 2019 to March 31, 2020

As and When Required Work

Applies only if requested by Parks Canada. To be performed at a time agreeable to both the contractor and Parks Canada.

ITEM	ITEM DESCRIPTION	QUANTITY	UNIT PRICE	EXTENDED PRICE
2.2C.1	Two loop site installation (see section 4.5)	1		
2.2C.2	Four loop site installation (see section 4.5)	1		
2.2C.3	Eight loop site installation (see section 4.5)	1		
2.2C.4	One Golden River M660 Classifier	1		
SUBTOTAL 2.2C FOR AS AND WHEN REQUIRED WORK April 1, 2019 to March 31, 2020 Option Year 2 (add 2.2C.1 to 2.2C.4) Transfer this amount to Bid Line item 2.2C				

ANNEX "C"

INSURANCE REQUIREMENTS

Commercial General Liability Insurance

1. The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$5,000,000 per accident or occurrence and in the annual aggregate.
2. The Commercial General Liability policy must include the following:
 - a. Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
 - b. Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
 - c. Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
 - d. Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
 - e. Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
 - f. Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
 - g. Employees and, if applicable, Volunteers must be included as Additional Insured.
 - h. Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)
 - i. Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
 - j. Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
 - k. If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
 - l. Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.
 - m. Non-Owned Automobile Liability - Coverage for suits against the Contractor resulting from the use of hired or non-owned vehicles.
 - n. Sudden and Accidental Pollution Liability (minimum 120 hours): To protect the Contractor for liabilities arising from damages caused by accidental pollution incidents.
 - o. Litigation Rights: Pursuant to subsection 5(d) of the *Department of Justice Act*, S.C. 1993, c. J-2, s.1, if a suit is instituted for or against Canada which the Insurer would, but for this clause, have the right to pursue or defend on behalf of Canada as an Additional Named Insured under the insurance policy, the Insurer must promptly contact the Attorney General of Canada to agree on the legal strategies by sending

a letter, by registered mail or by courier, with an acknowledgement of receipt. For the province of Quebec, send to:

Director Business Law Directorate,
Quebec Regional Office (Ottawa),
Department of Justice,
284 Wellington Street, Room SAT-6042,
Ottawa, Ontario, K1A 0H8

For other provinces and territories, send to:

Senior General Counsel,
Civil Litigation Section,
Department of Justice
234 Wellington Street, East Tower
Ottawa, Ontario K1A 0H8

A copy of the letter must be sent to the Contracting Authority. Canada reserves the right to co-defend any action brought against Canada. All expenses incurred by Canada to co-defend such actions will be at Canada's expense. If Canada decides to co-defend any action brought against it, and Canada does not agree to a proposed settlement agreed to by the Contractor's insurer and the plaintiff(s) that would result in the settlement or dismissal of the action against Canada, then Canada will be responsible to the Contractor's insurer for any difference between the proposed settlement amount and the amount finally awarded or paid to the plaintiffs (inclusive of costs and interest) on behalf of Canada.

ANNEX "D"

ATTESTATION AND PROOF OF COMPLIANCE WITH OCCUPATIONAL HEALTH AND SAFETY (OHS)

The following form must be completed and signed prior to commencing work on Parks Canada Sites.

Attestation and Proof of Compliance with Occupational Health and Safety (OHS)

Submission of this completed form, satisfactory to Parks Canada, is a condition of gaining access to the work place.

Parks Canada recognizes that federal OHS legislation places certain specific responsibilities upon Parks Canada as owner of the work place. In order to meet those responsibilities, Parks Canada is implementing a contractor safety regime that will ensure that roles and responsibilities assigned under Part II of the *Canada Labour Code* and the *Canada Occupational Health and Safety Regulations* are implemented and observed when involving contractor(s) to undertake works in Parks Canada work places.

Parks Canada Responsible Authority/Project Lead	Address	Contact Information
Project Manager/Contracting Authority (delete as required)		
Prime Contractor		
Subcontractor(s) (add additional fields as required)		

Location of Work

General Description of Work to be Completed

Mark "Yes" where applicable.

	A meeting has been held to discuss hazards and access to the work place and all known and foreseeable hazards have been identified to the contractor and/or subcontractor(s)
	The contractor and/or its subcontractor(s) will comply with all federal and provincial/territorial legislation and Parks Canada's policies and procedures, regarding occupational health and safety.
	The contractor and/or its subcontractor(s) will provide all prescribed safety materials, equipment, devices and clothing.
	The contractor and/or its subcontractor(s) will ensure that its employees are familiar with and use all prescribed safety materials, equipment, devices and clothing at all times.
	The contractor and/or its subcontractor(s) will ensure that its activities do not endanger the health and safety of Parks Canada employees.
	The contractor and/or its subcontractor(s) has inspected the site and has carried out a hazard assessment and has put in place a health and safety plan and informed its employees accordingly, prior to the commencement of the work.
	Where a contractor and/or its subcontractor(s) will be storing, handling or using hazardous substances in the work place, it will place warning signs at access points warning persons of the presence of the substances and any precautions to be taken to prevent or reduce any hazard of injury or death.
	The contractor and/or its subcontractor(s) will ensure that its employees are instructed in respect of any emergency procedures applicable to the site.

I, _____ (contractor), certify that I have read, understood and attest that my firm, employees and all sub-contractors will comply with the requirements set out in this document and the terms and conditions of the contract.

Name _____

Signature _____

Date _____