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|---|--|---|--|
| <p>RETURN BIDS TO: RETOURNER LES SOUMISSIONS À:</p> <p>Bid Receiving - Environment Canada / Réception des soumissions – Environnement Canada</p> <p>Electronic Copy: ec.soumissions-bids.ec@canada.ca</p> <p>BID SOLICITATION DEMANDE DE SOUMISSIONS</p> <p>PROPOSAL TO: ENVIRONMENT CANADA</p> <p>We offer to perform or provide to Canada the services detailed in the document including any attachments and annexes, in accordance with the terms and conditions set out or referred to in the document, at the price(s) provided.</p> <p>SOUSSION À: ENVIRONNEMENT CANADA</p> <p>Nous offrons d'effectuer ou de fournir au Canada, aux conditions énoncées ou incluses par référence dans le document incluant toutes pièces jointes et annexes, les services détaillés dans le document, au(x) prix indiqué(s).</p> | <p>Title – Titre Sediment Contaminant Analysis</p> | | |
| | <p>EC Bid Solicitation No. /SAP No. – N° de la demande de soumissions EC / N° SAP 5000050888</p> | | |
| | <p>Date of Bid solicitation (YYYY-MM-DD) – Date de la demande de soumissions (AAAA-MM-JJ) 2020-06-17</p> | | |
| | <p>Bid Solicitation Closes (YEAR-MM-DD) - La demande de soumissions prend fin (AAAA-MM-JJ) at – à 3:00 P.M. on – le 2020-07-27</p> | <p>Time Zone – Fuseau horaire Eastern Daylight Time</p> | |
| | <p>F.O.B – F.A.B</p> | | |
| | <p>Address Enquiries to - Adresser toutes questions à Heidi Noble heidi.noble@canada.ca</p> | | |
| | <p>Telephone No. – N° de téléphone 905-319-6982</p> | <p>Fax No. – N° de Fax</p> | |
| | <p>Delivery Required (YEAR-MM-DD) – Livraison exigée (AAAA-MM-JJ) 2021-03-31</p> | | |
| | <p>Destination - of Services / Destination des services British Columbia, Canada</p> | | |
| | <p>Security / Sécurité There is no security requirement associated with this requirement.</p> | | |
| <p>Vendor/Firm Name and Address - Raison sociale et adresse du fournisseur/de l'entrepreneur</p> | | | |
| <p>Telephone No. – N° de téléphone</p> | <p>Fax No. – N° de Fax</p> | | |
| <p>Name and title of person authorized to sign on behalf of Vendor/Firm: (type or print) / Nom et titre de la personne autorisée à signer au nom du fournisseur/de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</p> | | | |
| <p>Signature</p> | <p>Date</p> | | |

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TITLE Sediment Contaminant Analysis

PART 1 - GENERAL INFORMATION

1. Introduction

The bid solicitation is divided into seven parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;
- Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;
- Part 5 Certifications: includes the certifications to be provided; and
- Part 6 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Attachments include the Mandatory Technical Criteria and Point Rated Technical Criteria, the Company Experience Table, and the List of Analytes and Detection Limits.

The Annexes include the Statement of Work, and the Basis of Payment.

2. Summary

- 2.1 Environment and Climate Change Canada (ECCC) has a requirement for sediment contaminant analysis as detailed in the Statement of Work, Annex A to the bid solicitation. The period of the contract is from date of Contract to March 31, 2021 inclusive and four (4) one (1)-year option periods. ECCC requires a contractor to provide analytical services through laboratory-based analysis for up to twenty-four (24) marine sediment samples for ten (10) contaminant classes.
- 2.2 Bidders must provide a list of names, or other related information as needed, pursuant to section 01 Integrity Provisions of Standard Instructions 2003.
- 2.3 For services requirements, bidders in receipt of a pension or a lump sum payment must provide the required information as detailed in article 3 of Part 2 of the bid solicitation.
- 2.4 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 Canadian Free Trade Agreement (CFTA).

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 of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

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 PWGSC *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 (2019-03-04) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

The standard instructions 2003 are modified as follows:

Under "Text" at 02:

Delete: "Procurement Business Number"

Insert: "Deleted"

At Section 02 Procurement Business Number

Delete: In its entirety

Insert: "Deleted"

At Section 05 Submission of Bids, Subsection 05 (2d):

Delete: In its entirety

Insert: "send its bid only to Environment Canada (EC) as specified on page 1 of the bid solicitation or to the address specified in the bid solicitation;"

At Section 06 Late Bids:

Delete: "PWGSC"

Insert: "Environment Canada"

At Section 07 Delayed Bids:

Delete: "PWGSC"

Insert: "Environment Canada"

At Section 08 Transmission by Facsimile, Subsection 08 (1):

Delete: In its entirety

Insert: "Bids may be submitted by facsimile if specified in the bid solicitation."

At Section 12 Rejection of Bid, Subsection 12 (1) a. and b.:

Delete: In their entirety

Insert: "Deleted"

At Section 17 Joint Venture, Subsection 17 (1) b.:

Delete: "the Procurement Business Number of each member of the joint venture,"

Insert: "Deleted"

At Section 20 Further Information, Subsection 20 (2):

Delete: In its entirety

Insert: "Deleted"

At Section 05 Submission of Bids, Subsection 05 (4):

Delete: "sixty (60) days"

Insert: "one hundred and twenty (120) days"

2. Submission of Bids

Bids must be submitted to Environment Canada (EC) at the address and by the date, time and place indicated on page 1 of the bid solicitation.

3. Former Public Servant – Competitive Bid

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 FPS, 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 FPS 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.

4. Enquiries - Bid Solicitation

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

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

5. Applicable Laws

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

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.

6. Basis for Canada's Ownership of Intellectual Property

Environment Canada has determined that any intellectual property rights arising from the performance of the Work under the resulting contract will belong to Canada, on the following grounds:

- (6.4.1) the main purpose of the contract, or of the deliverables contracted for, is to generate knowledge and information for public dissemination.

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

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

Section I: Technical Bid (1 electronic copy)

Section II: Financial Bid (1 electronic copy)

Section III: Certifications (1 electronic copy)

Note for electronic submission of bids:

In order to be considered, bids must be received no later than 1500h (3 p.m.) (Eastern Time) on the date and time indicated on the cover page to herein as the "Closing Date." Bids received after the Closing Date will be considered non-responsive and will not be considered for contract award. Bids submitted by email must be submitted ONLY to the following email address:

Email Address: ec.soumissions-bids.ec@canada.ca

Attention: Heidi Noble

Solicitation Number: 5000050888

Bidders should ensure that their name, address, Closing Date of the solicitation and Solicitation Number are clearly indicated in the body of their email. Bids and supporting information may be submitted in either English or French.

The total size of the email, including all attachments, must be less than 15 megabytes (MB). It is each Bidder's responsibility to ensure that the total size of the email does not exceed this limit.

Bids sent by fax will not be accepted.

It is important to note that emails systems can experience systematic delays and, at times, large attachments may cause systems to hold or delay transmission of emails. It is solely the Bidder's responsibility to ensure that the Contracting Authority receives a bid on time, in the mailbox that has been identified for bid receipt purposes. Date stamps for this form of transmission are not acceptable.

Section I: Technical Bid

In their technical bid, bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.

The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

Part 4, Evaluation Procedures, contains additional instructions that bidders should consider when preparing their technical bid.

Section II: Financial Bid

- 1.1 Bidders must submit their financial bid in accordance with the Basis of Payment in Annex B. The total amount of Applicable Taxes must be shown separately.
- 1.2 Bidders must submit their financial bid in Canadian funds and in accordance with the Basis of Payment in Annex B. The total amount of Applicable Taxes must be shown separately.
- 1.3 Bidders must submit their prices FOB destination; Canadian customs duties and excise taxes included, as applicable; and Applicable Taxes excluded.
- 1.4 **Price Breakdown**

In their financial bid, the bidders are requested to provide a detailed breakdown of the price for the following elements for the performance of the Work, **as applicable**:

- (a) Professional fees: For each individual and (or) labour category to be assigned to the Work, the bidders should indicate: i) the firm hourly rate or the firm daily rate, inclusive of overhead and profit; and ii) the estimated number of hours or days, as applicable. The bidders should indicate the number of hours in one working day.
- (b) Equipment (if applicable): The bidders should specify each item required to complete the Work and provide the pricing basis of each one, Canadian customs duty and excise taxes included, as applicable.
- (c) Materials and Supplies (if applicable): The bidders should identify each category of materials and supplies required to complete the Work and provide the pricing basis. The Bidder should indicate, on a per category basis, whether the items are likely to be consumed during the performance of any resulting contract.
- (d) Travel and Living Expenses (if applicable): The bidders should indicate the number of trips and the number of days for each trip, the cost, destination and purpose of each journey, together with the basis of these costs without exceeding the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the *National Joint Council Travel Directive* and with the other provisions of the directive referring to "travellers", rather than those referring to "employees".
- (e) Subcontracts (if applicable): The bidders should identify all of the proposed subcontractors and provide in their financial bid for each one a price breakdown.
- (f) Other Direct Charges (if applicable): The bidders should identify all of the categories of other direct charges anticipated, such as long distance communications and rentals, providing the pricing basis for each and explaining the relevance to the work described in Part 7 of the bid solicitation.
- (g) Applicable Taxes: The bidders should indicate the Applicable Taxes separately.

1.5 Bidders should include the following information in their financial bid:

- (a) Their legal name; and
- (b) The name of the contact person (including this person's mailing address, phone and facsimile numbers and email address) authorized by the Bidder to enter into communications with Canada with regards to their bid; and any contract that may result from their bid.

1.6 **Other clauses**

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

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.

1.1 Technical Evaluation

Except where expressly provided otherwise, the experience described in the bid must be the experience of the Bidder itself (which includes the experience of any companies that formed the Bidder by way of a merger but does not include any experience acquired through a purchase of assets or an assignment of contract). The experience of the Bidder's affiliates (i.e. parent, subsidiary or sister corporations), subcontractors, or suppliers will not be considered.

1.1 Technical Evaluation

1.1.1 Mandatory Technical Criteria

Mandatory criteria are assessed on a simple pass/fail basis. Bids that fail to meet any of the mandatory criteria will be considered non-responsive.

Mandatory Technical Criteria is included in Attachment 1 to Part 4.

1.1.2 Point Rated Technical Criteria

A minimum score of 145 points must be obtained for the proposal to be considered responsive.

Point Rated Technical Criteria is included in Attachment 1 to Part 4.

1.2 Financial Evaluation

1.2.1 Evaluation of Price

The price of the bid will be evaluated in Canadian dollars, the Applicable Taxes excluded, Canadian customs and excise taxes included.

For evaluation purposes only, the price of the bid will be determined as follows:

Proposals will be evaluated out of 40 points.

The proposal with the lowest price receives the maximum 40 points, and all higher priced proposals will be pro-rated relative to the lowest price.

2. Basis of Selection

2.1 Basis of Selection - Highest Combined Rating of Technical Merit and Price

- 1. To be declared responsive, a bid must:
 - (a) comply with all the requirements of the bid solicitation;

- (b) meet all mandatory financial criteria;
- and
- (c) obtain the required minimum score of 145 points for the technical evaluation criteria which are subject to point rating.
2. Bids not meeting (a) or (b) or (c) will be declared non-responsive.
 3. The evaluation will be based on the highest responsive combined rating of technical merit and price. The ratio will be 60% for the technical merit and 40 % for the price.
 4. To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained / maximum number of points available multiplied by the ratio of 60%.
 5. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and the ratio of 40%
 6. For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.
 7. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract.

The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 60/40 ratio of technical merit and price, respectively. The total available points equals 100 and the lowest evaluated price is \$55,000.00 (55).

Basis of Selection - Highest Combined Rating Technical Merit (60%) and Price (40%)

| <u>Bidder</u> | Bidder 1 | Bidder 2 | Bidder 3 |
|-------------------------|-------------------------|-------------------------|-------------------------|
| Overall Technical Score | 90/100 | 70/100 | 80/100 |
| Bid Evaluated Price | \$65,000.00 | \$55,000.00 | \$60,000.00 |
| <u>Calculations</u> | | | |
| Technical Merit Score | $90/100 \times 60 = 54$ | $70/100 \times 60 = 42$ | $80/100 \times 60 = 48$ |
| Pricing Score | $55/65 \times 40 = 34$ | $55/55 \times 40 = 40$ | $55/60 \times 40 = 37$ |
| Combined Rating | 88 | 82 | 85 |
| Overall Rating | 1 st | 3 rd | 2 nd |

ATTACHMENT 1 TO PART 4

MANDATORY TECHNICAL CRITERIA AND POINT RATED TECHNICAL CRITERIA

Mandatory Technical Criteria:

| No. | Mandatory Technical Criteria | Compliant (Yes/No) | Proposal Page No. |
|-----|---|--------------------|-------------------|
| M1 | <p>The Bidder must hold ISO 17025 laboratory accreditation from an approved accredited organization such as, Canadian Association for Laboratory Accreditation (CALA) for isotope dilution methods for 209 PCB congeners by HRMS method USEPA 1668, Dioxin and Furans by HRMS method, PBDEs by HRMS method USEPA 1614, and PFAS using LC-MS/MS.</p> <p>Environment and Climate Change Canada reserves the right to request proof prior to contract award.</p> | | |
| M2 | <p>The Bidder must demonstrate using a project description that it has at least 5 years of experience analyzing environmental samples, including sediments, for the following ten (10) contaminant classes:</p> <ol style="list-style-type: none"> 1) legacy and current use pesticides by HRMS; 2) PCBs by HRMS method USEPA 1668; 3) PBDEs by HRMS method USEPA 1614; 4) Tetrabromobisphenol A by LC-MS/MS; 5) HBCDD by LC-MS/MS; 6) Dioxins & Furans by HRMS method USEPA 1613B; 7) PFASs using LC-MS/MS; 8) PAHs using LR-GC/MS; 9) PPCPs using LC-MS/MS; and 10) Alkylphenols using LR-GC/MS. <p>The Bidder must complete the Company Experience Table and include it with its bid. Refer to Attachment 2 to Part 4.</p> | | |
| M3 | <p>The Bidder must provide a description of methods, a list of analytes and limits of detection achieving all reported analytes and the limits of detection listed in Table A2 to Table A7 and Table A9 of Appendix 1 to Annex A.</p> | | |
| M4 | <p>The Bidder must provide a description of methods, a list of analytes and limits of detection achieving the limits of detection for at least 60 of the 76 requested analyses listed in Table A1 and for at least 111 of the 141 requested analyses in Table A8 of Appendix 1 to Annex A.</p> | | |

Point Rated Technical Criteria:

| No. | Point-Rated Technical Criteria: | Points Awarded | Reference to Proposal: Page # & Project # |
|------------|--|-----------------------|--|
| R1 | <p>The Bidder provides a list of projects and associated project dates, including number of years of experience, for each of the listed ten (10) contaminant classes identified below:</p> <ol style="list-style-type: none"> 1) legacy and current use pesticides by HRMS; 2) PCBs by HRMS method USEPA 1668; 3) PBDEs by HRMS method USEPA 1614; 4) Tetrabromobisphenol A by LCMS/MS with a required RL based on low calibration standard of 0.4 ng/g; 5) HBCDD by LC-MS/MS; 6) Dioxins & Furans by HRMS method USEPA 1613B; 7) PFASs using LC-MS/MS; 8) PAHs using GC/MS; 9) PPCPs using LC-MS/MS; and 10) Alkylphenols using GC/MS. <p><u>Evaluation Grid:</u></p> <ul style="list-style-type: none"> - 10 years of experience or more per contaminant class = 5 points - Greater than 5 years to 9 years of experience per contaminant class = 0 points <p>Up to a maximum of 5 points may be awarded for each contaminant class.</p> <p>The Bidder must complete the Company Experience Table and include it with its bid. Refer to Attachment 2 to Part 4.</p> | /50 | |
| R2 | <p>The Bidder submits a maximum of three (3) single spaced pages with a minimum font size of ten (10) outlining the Bidder's understanding of ECCC disposal at sea objectives and requirements described in Annex A, the Statement of Work.</p> <p><u>Evaluation Grid:</u></p> <ul style="list-style-type: none"> - 10 points (full demonstration): The Bid adequately meets or exceeds the requirement and appears that the requirement is fully understood. There is a low probability that uncertainties will significantly impact accomplishment of the requirement. - 5 points (some demonstration): The Bid minimally | /10 | |

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| | <p>meets the requirement. No apparent indication that the requirement is fully understood. Existence of minor deficiencies in meeting the requirement. There is moderate probability that uncertainties will significantly impact accomplishment of the requirement.</p> <ul style="list-style-type: none"> - 0 point (no demonstration): The Bid fails to meet the entire requirement. Appears that the requirement is not fully understood. Insufficient explanation of how the requirement will be met. There is high probability that uncertainties will significantly impact accomplishment of the requirement. | | |
| R3 | <p>The Bidder submits a list of analytes and limits of detection reported for the Legacy and Current Use Pesticides with reference to Table A1 of Appendix 1 to Annex A, and indicate which analytes and limits of detection listed in Annex A will or will not be reported. A total of 76 analytes are requested. Deviations from requested detection limits must be specified.</p> <p><u>Evaluation Grid:</u></p> <ul style="list-style-type: none"> - Bidder reports 69 or more of the 76 requested analytes as described in Table A1 of Appendix 1 to Annex A = 15 points - Bidder reports 61 to 68 of the 76 requested analytes as described in Table A1 of Appendix 1 to Annex A = 10 points <p>Bidder reports 60 or less of the 76 requested analyses as described in Table A1 of Appendix 1 to Annex A will not be considered further as the Bidder failed to meet mandatory criterion M4.</p> | /15 | |
| R4 | <p>Regarding PCB analysis using USEPA 1668 method with reference to Table A2 of Appendix a to Annex A, the Bidder indicates its ability to provide blank levels based on reported method blanks down to EDL, and a description of standard and optional clean-ups.</p> <p><u>Evaluation Grid:</u></p> <ul style="list-style-type: none"> - 10 points will be assigned if blank levels (last 10 solid method blanks) are based on reported method blanks down to EDL levels, and - 4 points will be assigned for each identified standard clean-up method, up to a maximum point of 12 - 2 points will be assigned for each identified optional clean-up method, up to a maximum point of 6. | /28 | |

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| <p>R5</p> | <p>Regarding PBDE analysis using HRMS method USEPA 1614A method with reference to Table A3 of Appendix 1 to Annex A, the Bidder indicates its ability to provide blank levels based on reported method blanks down to EDL, and a description of standard and optional clean –ups.</p> <p>A maximum score of 28.</p> <p><u>Evaluation Grid:</u></p> <ul style="list-style-type: none"> - 10 points will be assigned if blank levels (last 10 solid method blanks) are based on reported method blanks down to EDL levels, and - 4 points will be assigned for each identified standard clean-up method, up to a maximum point of 12 - 2 points will be assigned for each identified optional clean-up method, up to a maximum point of 6. | /28 | |
| <p>R6</p> | <p>Regarding HBCDD analysis with reference to Table A4 of Appendix 1 to Annex A, the Bidder indicates its ability to report limits based on low calibration.</p> <p>A maximum score of 10.</p> <p><u>Evaluation Grid:</u></p> <ul style="list-style-type: none"> - Reporting limits for alpha, beta and gamma congeners are 0.1ng/g or less = 10 points - Reporting limits for alpha, beta and gamma congeners are between 0.101 ng/g to 0.5ng/g = 5 points - Reporting limits for alpha, beta and gamma congeners are greater than 0.5 ng/g = 0 point | /10 | |
| <p>R7</p> | <p>Regarding Dioxins & Furans analysis with reference to Table A5 of Appendix 1 to Annex A, the Bidder indicates its reporting limits based on EDLs.</p> <p><u>Evaluation Grid:</u></p> <ul style="list-style-type: none"> - TEQ assigned compound reporting limits is 0.1 pg/g or less based on EDLs = 10 points - TEQ assigned compound reporting limits are between 0.101pg/g and 1pg/g based on EDLs = 5 points - TEQ assigned compound reporting limits are greater than 1 pg/g = 0 point | /10 | |
| <p>R8</p> | <p>Regarding PFAS analysis with reference to Table A6 of Appendix 1 to Annex A, the Bidder indicates its method blank acceptance criteria.</p> <p><u>Evaluation Grid:</u></p> | /10 | |

| | | | |
|------------|---|-----|--|
| | <ul style="list-style-type: none"> - 10 points will be assigned if blank controls are used. - 0 point will be assigned if blank controls are not used. | | |
| R9 | <p>Regarding PAH analysis with reference to Table A7 of Appendix 1 to Annex A, the Bidder indicates their use of isotope dilution, mass ratios, one GC/MS run for specific PAHs and alkylated PAHs, and reporting limits by SDL.</p> <p><u>Evaluation Grid:</u></p> <ul style="list-style-type: none"> - 5 points will be assigned if isotope dilution is utilized for quantification of specific targets, - 5 points will be assigned if mass ratio acceptance criteria are used for each specific PAH or alkylated PAH, - 5 points will be assigned if single GC/MS run for all compounds (specific PAHs and alkylated PAHs / alkylated PAH groups - 5 points will be assigned if reporting limits by SDL are less than 2 ng/g for 72 of the 76 requested analytes. | /20 | |
| R10 | <p>The Bidder submits a list of analytes and limits of detection reported for the PPCP with reference to Table A8 of Appendix 1 to Annex A, and indicate which analytes and limits of detection listed in Appendix 1 to Annex A will or will not be reported. A total of 141 analytes are requested. Deviations from requested detection limits must be specified.</p> <p><u>Evaluation Grid:</u></p> <ul style="list-style-type: none"> - Bidder reports 127 or more of the 141 requested analyses as described in Table A8 of Appendix 1 to Annex A = 15 points - Bidder reports 112 to 126 of the 141 requested analyses as described in Table A8 of Appendix 1 to Annex A = 10 points <p>Bidder reports 111 or less of the 141 requested analyses as described in Table A8 of Appendix 1 to Annex A will not be considered further as the Bidder fails to meet mandatory criterion M4.</p> | /15 | |
| R11 | <p>Regarding alkyphenol analysis with reference to Table A9 of Appendix 1 to Annex A, the Bidder indicates their ability to report the sum of all NP, NP1E01, NP2E0 isomers.</p> <p><u>Evaluation Grid:</u></p> <ul style="list-style-type: none"> - 15 points will be assigned if the Bidder can report the | /15 | |

| | | | |
|----------------------|---|------------------|--|
| | sum of all NP, NP1E01, NP2E0 isomers.. - 0 point will be assigned if the Bidder cannot report the sum of all NP, NP1E01, NP2E0 isomers. | | |
| Total | | / 211 | |
| Minimum Score | | 145 / 211 | |

ATTACHMENT 2 TO PART 4**COMPANY EXPERIENCE TABLE**

The Bidder must complete the Company Experience Table and include it with its bid.

The Company Experience Table is required for M2 and R1

Attachment 2: Company Experience Table

| Company Experience | |
|--|--|
| Analysis of environmental samples, including sediments | |
| The Bidder may add additional lines for projects | |
| Project 1 | |
| Client Name | |
| Project start and end date (yyyy-mm-dd) | |
| Description of project | |
| Applicable contaminant class(es) | |
| Project 2 | |
| Client Name | |
| Project start and end date (yyyy-mm-dd) | |
| Description of project | |
| Applicable contaminant class(es) | |
| Project 3 | |
| Client Name | |
| Project start and end date (yyyy-mm-dd) | |
| Description of project | |
| Applicable contaminant class(es) | |
| Project 4 | |
| Client Name | |
| Project start and end date (yyyy-mm-dd) | |
| Description of project | |
| Applicable contaminant class(es) | |
| Project 5 | |
| Client Name | |

| | |
|--|--|
| | |
| Project start and end date (yyyy-mm-dd) | |
| Description of project | |
| Applicable contaminant class(es) | |

PART 5 - CERTIFICATIONS

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

The certifications provided by bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default in carrying out any of its obligations under the Contract, 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 may render the bid non-responsive or constitute a default under the Contract.

1. Certifications Required Precedent to Contract Award

1.1 Integrity Provisions - Associated Information

By submitting a bid, the Bidder certifies that the Bidder and its Affiliates are in compliance with the provisions as stated in Section 01 Integrity Provisions - Bid of Standard Instructions 2003. The associated information required within the Integrity Provisions will assist Canada in confirming that the certifications are true.

1.2 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 (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from Employment and Social Development Canada (ESDC) - Labour's website.

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

2. Additional Certifications Required Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid but may be submitted afterwards. If any of these required certifications 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 comply with the request of the Contracting Authority and to provide the certifications within the time frame provided will render the bid non-responsive.

2.1 Education and Experience

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

PART 6 - RESULTING CONTRACT *(at contract award, delete this line)*

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation. *(at contract award, delete this sentence and add the title of the requirement)*

Title: *(insert only at contract award)*

1. Statement of Work

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

2. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the PWGSC *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.

2.1 General Conditions

2010B (2018-06-21) General Conditions - Professional Services (Medium Complexity), as modified below, apply to and form part of the Contract.

General conditions 2010B is modified as follows:

At Section 12 Transportation Costs

Delete: In its entirety

Insert: "Deleted"

At Section 13 Transportation Carriers' Liability

Delete: In its entirety.

Insert: "Deleted"

At Section 18, Confidentiality:

Delete: In its entirety

Insert: "Deleted"

Insert Subsection: "35 Liability"

"The Contractor is liable for any damage caused by the Contractor, its employees, subcontractors, or agents to Canada or any third party. Canada is liable for any damage caused by Canada, its employees or agents to the Contractor or any third party. The Parties agree that no limitation of liability or indemnity provision applies to the Contract unless it is specifically incorporated in full text in the Articles of Agreement. Damage includes any injury to persons (including injury resulting in death) or loss of or damage to property (including real property) caused as a result of or during the performance of the Contract."

A. For professional services requirements where the deliverables are copyrightable works:

Canada to own Intellectual Property rights in Copyright

At Section 19 Copyright

Delete: In its entirety

Insert:

1. In this section:
"Material" means anything that is created or developed by the Contractor as part of the Work under the Contract, and in which copyright subsists.
"Background Information" means all Intellectual Property that is not Foreground Information that is incorporated into the Work or necessary for the performance of

the Work and that is proprietary to or the confidential information of the Contractor, its subcontractors or any other third party;
"Foreground Information" means all Intellectual Property first conceived, developed, produced or reduced to practice as part of the Work under the Contract;

2. Material that is created or developed by the Contractor as part of the Work under the Contract belongs to Canada. The Contractor must incorporate the copyright symbol and either of the following notices, as appropriate: © Her Majesty the Queen in right of Canada (year) or © Sa Majesté la Reine du chef du Canada (année).
3. At the request of the Contracting Authority, the Contractor must provide to Canada, at the completion of the Work or at such other time as the Contracting Authority may require, a written permanent waiver of moral rights as defined in the [Copyright Act](#), R.S., 1985, c. C-42, in a form acceptable to the Contracting Authority, from every author that contributed to the Work. If the Contractor is an author, the Contractor permanently waives the Contractor's moral rights.
4. All Intellectual Property Rights in the Material belongs to Canada as soon as they come into existence. The Contractor has no right in or to any such Intellectual Property except any right that may be granted in writing by Canada.
5. The Contractor also grants to Canada a non-exclusive, perpetual, irrevocable, worldwide, fully-paid and royalty-free license to use the Background Information to the extent that this information is required by Canada to exercise its rights to use the Material. This license cannot be restricted in any way by the Contractor providing any form of notice to the contrary, including the wording on any shrink-wrapped license attached to any deliverable.

At Section 06 Subcontracts

Delete: paragraphs 1, 2, and 3 in their entirety.

Insert: "The Contractor may subcontract the supply of goods or services that are customarily subcontracted by the Contractor. Subcontracting does not relieve the Contractor from any of its obligations under the Contract or impose any liability upon Canada to a subcontractor. In any subcontract, the Contractor agrees to bind the subcontractor by the same conditions by which the Contractor is bound under the Contract, unless the Contracting Authority agrees otherwise, with the exception of requirements under the Federal Contractors Program for employment equity which only apply to the Contractor."

At Section 19 Copyright

Delete: In its entirety

Insert: "Deleted"

3. Security Requirement

3.1 There is no security requirement applicable to this Contract.

4. Term of Contract

4.1 Period of the Contract

The period of the Contract is from date of Contract to March 31, 2021 inclusive

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 four (4) additional one (1) 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 fifteen (15) 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.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: _____
Title: _____
Environment Canada
Procurement and Contracting Division
Address: _____

Telephone: ____-____-_____
Facsimile: ____-____-_____
Email address: _____

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.

5.2 Technical Authority

The Technical Authority for the Contract is:

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: ____-____-_____
Facsimile: ____-____-_____
Email address: _____

The Technical Authority named above 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 Technical Authority, however the Technical 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.

5.3 Contractor's Representative

The Contractor's Representative for the Contract is:

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: ____-____-_____

Facsimile: _____ - _____ - _____
Email address: _____

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.

7. Payment

7.1 Basis of Payment – Firm Unit Prices

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit prices as specified in Annex B. Customs duties are included and applicable taxes extra.

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.

7.2 Limitation of Expenditure

- (a) Canada's total liability to the Contractor under the Contract must not exceed \$ _____. Customs duties are included and the Applicable Taxes are extra.
- (b) 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:
 - (i) when it is 75 percent committed, or
 - (ii) four (4) months before the contract expiry date, or
 - (iii) as soon as the Contractor considers that the contract funds provided are inadequate for the completion of the Work,whichever comes first.
- (c) 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.

8. Invoicing Instructions

8.1 Monthly Payment

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

Canada will pay the Contractor on a monthly basis for work performed during the month 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.

9. Certifications

9.1 Compliance

Compliance with the certifications provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification or it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

10. Laws

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

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) 2010B General Conditions - Professional Services (Medium Complexity) (2018-06-21) as modified;
- (c) Annex A, Statement of Work;
- (d) Annex B, Basis of Payment;
- (e) Annex C, List of Names for Integrity Verification Form; and
- (f) 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)).*

12. Insurance

PWGSC SACC Manual clause G1005C (2016-01-28) Insurance.

ANNEX A STATEMENT OF WORK

1.0 TITLE:

Sediment Contaminant Analysis

2.0 BACKGROUND:

Environment and Climate Change (ECCC) is responsible for regulating and monitoring disposal at sea activities under the Canadian Environmental Protection Act. As part of the disposal site monitoring program, ECCC monitors sediment contaminant concentrations (i.e. trace metals, polycyclic aromatic hydrocarbon (PAH), polychlorinated biphenyl (PCB), dioxins and furans) within and outside the disposal sites to verify that permit conditions were met and that scientific assumptions made during the permit review process were correct and sufficient to protect the environment. ECCC is interested in monitoring other contaminants of concern in the marine environment that could potentially affect Southern Resident Killer Whales and their habitat, such as Polybrominated Diphenyl Ethers Flame Retardants (PBDEs), tetrabromobisphenol A (TBBPA), HexaBromoCyclododecane isomers (HBCDD), legacy and current use pesticides, as well as other pollutants, including Alkylphenols, Per- and Polyfluoroalkyl Substances (PFASs) and Pharmaceuticals and Personal Care Products (PPCPs). Assessing the presence of sediment contaminants will help create a better understanding of the need to modify disposal at sea permitting policies or procedures.

3.0 OBJECTIVE:

3.1 ECCC is seeking a Contractor to provide the following analytical services, including sampling jars, ice packs, labels and coolers for shipment to Institute of Ocean Sciences in Sidney, BC or mutually agreed alternate location for pick-up:

- a) Analysis of up to 24 marine sediment samples for legacy and current use pesticides by High Resolution GC/MS (HRMS), refer to Table A1 of Appendix 1 to Annex A for list of analytes and detection limits required;
- b) Analysis of up to 24 marine sediment samples for PCBs by HRMS method USEPA 1668, see Table A2 of Appendix 1 to Annex A for list of analytes and detection limits required;
- c) Analysis of up to 24 marine sediment samples for PBDEs by HRMS method USEPA 1614, see Table A3 of Appendix 1 to Annex A for a list of analytes and detection limits required;
- d) Analysis of up to 24 marine sediment samples for TBBPA by Liquid Chromatography MS/MS (LC-MS/MS) with a required maximum reporting limit (RL) based on low calibration standard of 0.4 ng/g;
- e) Analysis of up to 24 marine sediment samples for HBCDD isomers by LC-MS/MS using LC MS/MS isotope dilution quantification, see Table A4 of Appendix 1 to Annex A for list of analytes and detection limits required;
- f) Analysis of up to 24 marine sediment samples for Dioxins & Furans by HRMS method USEPA 1613B, see Table A5 of Appendix 1 to Annex A for list of analytes and detection limits required;
- g) Analysis of up to 24 marine sediment samples for PFASs using LC-MS/MS isotope dilution quantification, see Table A6 of Appendix 1 to Annex A for list of analytes and detection limits required;
- h) Analysis of up to 24 marine sediment samples for PAHs using GC/MS, see Table A7 of Appendix 1 to Annex A for list of analytes and detection limits;

- i) Analysis of up to 24 marine sediment samples for PPCPs using LC-MS/MS isotopes dilution quantification, see Table A8 of Appendix 1 to Annex A for list of analytes and detection limits required;
- j) Analysis of up to 24 marine sediment samples for Alkylphenols using LR-GC/MS, see Table A9 of Appendix 1 to Annex A for list of analytes and detection limits required;
- k) % moisture of up to 24 marine sediment samples; and
- l) Basic Excel format EDD and a level 2 PDF format report that contains identifiers, the results, comments and QA/ QC for up to 24 marine sediment samples.

3.2 The Contractor is required to conduct laboratory-based analyses of up to 24 marine sediments per the following request: legacy and current use pesticides by HRMS, PCBs by HRMS method USEPA 1668, PBDEs by HRMS method USEPA 1614, Tetrabromobisphenol A by LCMS with a required RL based on low calibration standard of 0.4 ng/g based on 2.5g sample; HBCDD by LC-MS/MS; Dioxins & Furans by HRMS method USEPA 1613B; PFASs using LC-MS/MS; PAHs using LR-GC/MS; PPCPs using LC-MS/MS; Alkylphenols using LR-GC/MS, and % moisture. All analytes and limits of detection listed in Table A1 to Table A9 of Appendix 1 to Annex A must be measured and met, respectively. All analytes will be quantified by isotope dilution / recovery correction quantification, using either multiple masses with ratio criteria or MRM transitions (primary for quantification and secondary where available for confirmation). The laboratory will hold ISO 17025 accreditation for the facility conducting the analysis. Laboratories will describe their scope of accreditation by analyte group and performance in relevant intercalibration exercises. Isotope dilution methods for 209 PCB congeners by HRMS method USEPA 1668, Dioxin and Furans by HRMS method, PBDEs by HRMS method USEPA 1614, Legacy and Current Use Pesticides by HRMS EPA 1699, and PFAS using LC-MS/MS must be used.

3.3 ECCC will pick up the sampling jars, ice packs, labels and coolers from the Institute of Ocean Sciences in Sidney, British Columbia or a mutually agreed upon alternate location prior to sample collection.

3.4 ECCC will ship or drop-off frozen marine sediment samples to the Contractor for the analyses described in this Statement of Work. The selected laboratory will provide the resulting data report to ECCC for the requested analyses described above.

4.0 REQUIREMENTS:

The Contractor will provide the sampling jars, ice packs, labels and coolers, and resulting data report to ECCC for the requested analyses described below:

- a) Analysis of up to 24 marine sediment samples for legacy and current use pesticides by High Resolution GC/MS (HRMS), refer to Table A1 of Appendix 1 to Annex A for list of analytes and detection limits required;
- b) Analysis of up to 24 marine sediment samples for PCBs by HRMS method USEPA 1668, refer to Table A2 of Appendix 1 to Annex A for list of analytes and detection limits required;
- c) Analysis of up to 24 marine sediment samples for PBDEs by HRMS method USEPA 1614, refer to Table A3 of Appendix 1 to Annex A for a list of analytes and detection limits required;
- d) Analysis of up to 24 marine sediment samples for TBBPA by Liquid Chromatography MS/MS (LC-MS/MS) with a required maximum reporting limit (RL) based on low calibration standard of 0.4 ng/g;

- e) Analysis of up to 24 marine sediment samples for HBCDD isomers by LC-MS/MS using LC MS/MS isotope dilution quantification, refer to Table A4 Appendix 1 of Annex A for list of analytes and detection limits required;
- f) Analysis of up to 24 marine sediment samples for Dioxins & Furans by HRMS method USEPA 1613B, refer to Table A5 of Appendix 1 to Annex A for list of analytes and detection limits required;
- g) Analysis of up to 24 marine sediment samples for PFASs using LC-MS/MS isotope dilution quantification, refer to Table A6 of Appendix 1 to Annex A for list of analytes and detection limits required;
- h) Analysis of up to 24 marine sediment samples for PAHs using GC/MS, refer to Table A7 of Appendix 1 to Annex A for list of analytes and detection limits;
- i) Analysis of up to 24 marine sediment samples for PPCPs using LC-MS/MS isotopes dilution quantification, refer to Table A8 of Appendix 1 to Annex A for list of analytes and detection limits required;
- j) Analysis of up to 24 marine sediment samples for Alkylphenols using LR-GC/MS, refer to Table A9 of Appendix 1 to Annex A for list of analytes and detection limits required;
- k) % moisture of 24 marine sediment samples; and
- l) Basic Excel format EDD and a level 2 PDF format report that contains identifiers, the results, comments and QA/ QC for up to 24 marine sediment samples.

5.0 WORK LOCATION:

The Contractor will not require access to any ECCC protected information and/or ECCC buildings. The Work will be conducted at the Contractor's place of business.

6.0 DELIVERABLES:

The Contractor is required to provide a provisional data report to ECCC's Technical Authority in order to complete the task and for the Technical Authority to release payment. The provisional data report must be submitted to the Technical Authority eight (8) weeks after Contract award.

The Contractor is required to provide the final data report to ECCC's Technical Authority for review to ensure the content of the report is consistent with this Statement of Work.

Table 1 of Annex A provides a summary of the required tasks and deliverables for this Contract.

Table 1: Task and Deliverables

| Task | Deliverables |
|---|-------------------------|
| <p>Analysis of up to 24 marine sediment samples for legacy and current use pesticides by HRMS EPA 1699 method with incremental ON compounds, refer to Table A1 of Appendix 1 to Annex A for list of analytes and detection limits required;</p> <p>Analysis of up to 24 marine sediment samples for PCBs by HRMS method USEPA 1668, refer to Table A2 of Appendix 1 to Annex A for list of analytes and detection limits required;</p> <p>Analysis of up to 24 marine sediment samples for PBDEs by HRMS method USEPA 1614A, refer to Table A3 of Appendix 1 to Annex A for a list of analytes and detection limits required;</p> <p>Analysis of up to 24 marine sediment samples for Tetrabromobisphenol A by LC-MS/MS with a required RL based on low calibration standard of 0.4 ng/g based on 2.5g sample;</p> <p>Analysis of up to 24 marine sediment samples for HBCDD Alpha, Beta, Gamma isomers by LC-MS/MS, refer to Table A4 of Appendix 1 to Annex A for list of analytes and detection limits required;</p> <p>Analysis of up to 24 marine sediment samples for Dioxins & Furans by HRMS method USEPA 1613B, refer to Table A5 of Appendix 1 to Annex A for list of analytes and detection limits required;</p> <p>Analysis of up to 24 marine sediment samples for PFASs using LC-MS/MS isotope dilution quantification, refer to Table A6 of Appendix 1 to Annex A for list of analytes and detection limits required;</p> <p>Analysis of up to 24 marine sediment samples for PAHs using LR-GC/MS, refer to Table A7 of Appendix 1 to Annex A for list of analytes and detection limits;</p> <p>Analysis of up to 24 marine sediment samples for PPCPs using LC-MS/MS isotopes dilution quantification, refer to Table A8 of Appendix 1 to Annex A for list of analytes and detection limits required;</p> <p>Analysis of up to 24 marine sediment samples for Alkylphenols using LR-GC/MS, refer to Table A9 of Appendix 1 to Annex A for list of analytes and detection limits required;</p> <p>Basic Excel format EDD and a level 2 PDF format report that contains identifiers, the results, comments and QA/ QC for up to 24 marine sediment samples.</p> | Provisional Data Report |

7.0 ACCEPTANCE CRITERIA:

All deliverables are subject to the approval and acceptance of ECCC's Technical Authority

APPENDIX 1 TO ANNEX A

LIST OF ANALYTES AND DETECTION LIMITS

List of Analytes and Detection Limits Required for Each Contaminant Class Identified Below.

Table A1. Legacy and current use pesticide analytes by HRMS and detection limits required for each.

| Analyte | Sample Detection Limit ng/g based on 5g sample |
|-------------------------|---|
| TECNAZENE | 0.07 |
| HEXACHLOROBENZENE (HCB) | 0.01 |
| QUINTOZENE | 0.06 |
| HEPTACHLOR | 0.02 |
| HCH, ALPHA | 0.01 |
| HCH, GAMMA | 0.01 |
| HCH, BETA | 0.01 |
| HCH, DELTA | 0.01 |
| CHLOROTHALONIL. | 0.02 |
| ALDRIN | 0.01 |
| DACTHAL. | 0.04 |
| OCTACHLOROSTYRENE | 0.01 |
| OXYCHLORDANE | 0.01 |
| HEPTACHLOR-EPOXIDE | 0.01 |
| T-CHLORDANE | 0.01 |
| C-CHLORDANE | 0.01 |
| T-NONACHLOR | 0.01 |
| C-NONACHLOR | 0.01 |
| ALPHA-ENDOSULPHAN | 0.1 |
| BETA-ENDOSULPHAN | 0.1 |
| DIELDRIN | 0.01 |
| 2,4'-DDD | 0.01 |
| 4,4'-DDD | 0.01 |
| 2,4'-DDE | 0.01 |
| 4,4'-DDE 1 | 0.01 |
| 2,4'-DDT | 0.02 |
| 4,4'-DDT | 0.01 |
| CAPTAN. | 0.2 |
| PERTHANE | 0.1 |
| ENDRIN | 0.01 |
| ENDOSULPHAN-SULPHATE | 0.02 |
| MIREX | 0.02 |
| METHOXYCHLOR | 0.03 |
| ENDRIN-KETONE | 0.03 |
| SIMAZINE | 0.3 |
| ATRAZINE | 0.4 |
| AMETRYN | 0.1 |
| DESETHYLATRAZINE | 0.1 |
| METRIBUZIN | 0.1 |
| CYANAZINE | 0.4 |
| HEXAZINONE | 0.1 |
| PHORATE | 0.1 |
| TERBUFOS. | 0.1 |

| | |
|----------------------|-----|
| DIAZINON-OXON | 0.3 |
| DIAZINON | 0.1 |
| DISULFOTON | 0.1 |
| FONOFOS | 0.1 |
| DIMETHOATE | 0.4 |
| CHLORPYRIPHOS-METHYL | 0.1 |
| PARATHION-METHYL. | 0.3 |
| PIRIMIPHOS-METHYL. | 0.1 |
| CHLORPYRIPHOS. | 0.1 |
| FENITROTHION | 0.1 |
| MALATHION. | 0.5 |
| PARATHION-ETHYL. | 0.1 |
| CHLORPYRIPHOS-OXON. | 0.1 |
| DISULFOTON SULFONE | 0.1 |
| ETHION. | 0.1 |
| PHOSMET. | 0.1 |
| AZINPHOS-METHYL | 0.1 |
| TOTAL-PERMETHRINS | 0.1 |
| TOTAL-CYPERMETHRINS | 0.3 |
| ALACHLOR | 0.1 |
| BUTRALIN | 0.4 |
| BUTYLATE | 0.1 |
| DIMETHENAMID | 0.1 |
| ETHALFLURALIN | 0.1 |
| FLUFENACET | 0.1 |
| FLUTRIAFOL | 0.1 |
| LINURON | 0.3 |
| METHOPRENE | 4 |
| METOLACHLOR | 0.4 |
| PENDIMETHALIN | 0.2 |
| TEBUCONAZOL | 0.1 |
| TRIALATE | 0.1 |
| TRIFLURALIN | 0.1 |

Table A2. PCB analytes by HRMS method USEPA 1668 and detection limits required for each.

| Analyte | RL based on low calibration standard pg/g based on 10g sample |
|--------------|--|
| CL1-PCB1 | 0.05 |
| CL1-PCB2 | 0.05 |
| CL1-PCB3 | 0.05 |
| CL2-PCB4 | 0.05 |
| CL2-PCB5 | 0.05 |
| CL2-PCB6 | 0.05 |
| CL2-PCB7 | 0.05 |
| CL2-PCB8 | 0.05 |
| CL2-PCB9 | 0.05 |
| CL2-PCB10 | 0.05 |
| CL2-PCB11 | 0.05 |
| CL2-PCB12/13 | 0.05 |
| CL2-PCB14 | 0.05 |
| CL2-PCB15 | 0.05 |
| CL3-PCB16 | 0.05 |

| | |
|--------------------|------|
| CL3-PCB17 | 0.05 |
| CL3-PCB19 | 0.05 |
| CL3-PCB21/33 | 0.05 |
| CL3-PCB22 | 0.05 |
| CL3-PCB23 | 0.05 |
| CL3-PCB24 | 0.05 |
| CL3-PCB25 | 0.05 |
| CL3-PCB26/29 | 0.05 |
| CL3-PCB27 | 0.05 |
| CL3-PCB28/20 | 0.05 |
| CL3-PCB30/18 | 0.05 |
| CL3-PCB31 | 0.05 |
| CL3-PCB32 | 0.05 |
| CL3-PCB34 | 0.05 |
| CL3-PCB35 | 0.05 |
| CL3-PCB36 | 0.05 |
| CL3-PCB37 | 0.05 |
| CL3-PCB38 | 0.05 |
| CL3-PCB39 | 0.05 |
| CL4-PCB41/40/71 | 0.05 |
| CL4-PCB42 | 0.05 |
| CL4-PCB43 | 0.05 |
| CL4-PCB44/47/65 | 0.05 |
| CL4-PCB45/51 | 0.05 |
| CL4-PCB46 | 0.05 |
| CL4-PCB48 | 0.05 |
| CL4-PCB50/53 | 0.05 |
| CL4-PCB52 | 0.05 |
| CL4-PCB54 | 0.05 |
| CL4-PCB55 | 0.05 |
| CL4-PCB56 | 0.05 |
| CL4-PCB57 | 0.05 |
| CL4-PCB58 | 0.05 |
| CL4-PCB59/62/75 | 0.05 |
| CL4-PCB60 | 0.05 |
| CL4-PCB61/70/74/76 | 0.05 |
| CL4-PCB63 | 0.05 |
| CL4-PCB64 | 0.05 |
| CL4-PCB66 | 0.05 |
| CL4-PCB67 | 0.05 |
| CL4-PCB68 | 0.05 |
| CL4-PCB69/49 | 0.05 |
| CL4-PCB72 | 0.05 |
| CL4-PCB73 | 0.05 |
| CL4-PCB77 | 0.05 |
| CL4-PCB78 | 0.05 |
| CL4-PCB79 | 0.05 |
| CL4-PCB80 | 0.05 |
| CL4-PCB81 | 0.05 |
| CL5-PCB82 | 0.05 |
| CL5-PCB83/99 | 0.05 |
| CL5-PCB84 | 0.05 |
| CL5-PCB88/91 | 0.05 |

| | |
|-----------------------------|------|
| CL5-PCB89 | 0.05 |
| CL5-PCB92 | 0.05 |
| CL5-PCB94 | 0.05 |
| CL5-PCB95/100/93/102/98 | 0.05 |
| CL5-PCB96 | 0.05 |
| CL5-PCB103 | 0.05 |
| CL5-PCB104 | 0.05 |
| CL5-PCB105 | 0.05 |
| CL5-PCB106 | 0.05 |
| CL5-PCB107 | 0.05 |
| CL5-PCB108/124 | 0.05 |
| CL5-PCB109/119/86/97/125/87 | 0.05 |
| CL5-PCB110/115 | 0.05 |
| CL5-PCB111 | 0.05 |
| CL5-PCB112 | 0.05 |
| CL5-PCB113/90/101 | 0.05 |
| CL5-PCB114 | 0.05 |
| CL5-PCB117/116/85 | 0.05 |
| CL5-PCB118 | 0.05 |
| CL5-PCB120 | 0.05 |
| CL5-PCB121 | 0.05 |
| CL5-PCB122 | 0.05 |
| CL5-PCB123 | 0.05 |
| CL5-PCB126 | 0.05 |
| CL5-PCB127 | 0.05 |
| CL6-PCB128/166 | 0.05 |
| CL6-PCB130 | 0.05 |
| CL6-PCB131 | 0.05 |
| CL6-PCB132 | 0.05 |
| CL6-PCB133 | 0.05 |
| CL6-PCB134/143 | 0.05 |
| CL6-PCB136 | 0.05 |
| CL6-PCB137 | 0.05 |
| CL6-PCB138/163/129/160 | 0.05 |
| CL6-PCB139/140 | 0.05 |
| CL6-PCB141 | 0.05 |
| CL6-PCB142 | 0.05 |
| CL6-PCB144 | 0.05 |
| CL6-PCB145 | 0.05 |
| CL6-PCB146 | 0.05 |
| CL6-PCB147/149 | 0.05 |
| CL6-PCB148 | 0.05 |
| CL6-PCB150 | 0.05 |
| CL6-PCB151/135/154 | 0.05 |
| CL6-PCB152 | 0.05 |
| CL6-PCB153/168 | 0.05 |
| CL6-PCB155 | 0.05 |
| CL6-PCB156/157 | 0.05 |
| CL6-PCB158 | 0.05 |
| CL6-PCB159 | 0.05 |
| CL6-PCB161 | 0.05 |
| CL6-PCB162 | 0.05 |
| CL6-PCB164 | 0.05 |

| | |
|----------------|------|
| CL6-PCB165 | 0.05 |
| CL6-PCB167 | 0.05 |
| CL6-PCB169 | 0.05 |
| CL7-PCB170 | 0.05 |
| CL7-PCB171/173 | 0.05 |
| CL7-PCB172 | 0.05 |
| CL7-PCB174 | 0.05 |
| CL7-PCB175 | 0.05 |
| CL7-PCB176 | 0.05 |
| CL7-PCB177 | 0.05 |
| CL7-PCB-178 | 0.05 |
| CL7-PCB-179 | 0.05 |
| CL7-PCB180/93 | 0.05 |
| CL7-PCB181 | 0.05 |
| CL7-PCB182 | 0.05 |
| CL7-PCB183/185 | 0.05 |
| CL7-PCB184 | 0.05 |
| CL7-PCB186 | 0.05 |
| CL7-PCB187 | 0.05 |
| CL7-PCB188 | 0.05 |
| CL7-PCB189 | 0.05 |
| CL7-PCB190 | 0.05 |
| CL7-PCB191 | 0.05 |
| CL7-PCB192 | 0.05 |
| CL8-PCB194 | 0.05 |
| CL8-PCB195 | 0.05 |
| CL8-PCB196 | 0.05 |
| CL8-PCB197/200 | 0.05 |
| CL8-PCB198/199 | 0.05 |
| CL8-PCB201 | 0.05 |
| CL8-PCB202 | 0.05 |
| CL8-PCB203 | 0.05 |
| CL8-PCB204 | 0.05 |
| CL8-PCB205 | 0.05 |
| CL9-PCB206 | 0.05 |
| CL9-PCB207 | 0.05 |
| CL9-PCB208 | 0.05 |
| CL10-PCB209 | 0.05 |

Table A3. PBDE analytes by HRMS method USEPA 1614 and detection limits required for each.

| Analyte | RL based on low calibration standard pg/g based on 10g sample |
|----------------|--|
| BR2-DPE-7 | 0.1 |
| BR2-DPE-8/11 | 0.1 |
| BR2-DPE-10 | 0.1 |
| BR2-DPE-12/13 | 0.1 |
| BR2-DPE-15 | 0.1 |
| BR3-DPE-17/25 | 0.1 |
| BR3-DPE-28/33 | 0.1 |
| BR3-DPE-30 | 0.1 |
| BR3-DPE-32 | 0.1 |
| BR3-DPE-35 | 0.1 |
| BR3-DPE-37 | 0.1 |

| | |
|-----------------|-----|
| BR4-DPE-47 | 0.1 |
| BR4-DPE-49 | 0.1 |
| BR4-DPE-51 | 0.1 |
| BR4-DPE-66 | 0.1 |
| BR4-DPE-71 | 0.1 |
| BR4-DPE-75 | 0.1 |
| BR4-DPE-77 | 0.1 |
| BR4-DPE-79 | 0.1 |
| BR5-DPE-85 | 0.1 |
| BR5-DPE-99 | 0.1 |
| BR5-DPE-100 | 0.1 |
| BR5-DPE-105 | 0.1 |
| BR5-DPE-116 | 0.1 |
| BR5-DPE-119/120 | 0.1 |
| BR5-DPE-126 | 0.1 |
| BR6-DPE-128 | 0.1 |
| BR6-DPE-138/166 | 0.1 |
| BR6-DPE-140 | 0.1 |
| BR6-DPE-153 | 0.1 |
| BR6-DPE-154 | 0.1 |
| BR6-DPE-155 | 0.1 |
| BR7-DPE-181 | 0.1 |
| BR7-DPE-183 | 0.1 |
| BR7-DPE-190 | 0.1 |
| BR7-DPE-203 | 0.1 |
| BR7-DPE-206 | 0.1 |
| BR7-DPE-207 | 0.1 |
| BR7-DPE-208 | 0.1 |
| BR7-DPE-209 | 0.1 |

Table A4. HBCDD analytes by LCMS and detection limits required for each.

| Analyte | RL based on Low Calibration Standard ng/g based on 10g sample |
|-------------|--|
| ALPHA-HBCDD | 0.1 |
| BETA-HBCDD | 0.1 |
| GAMMA-HBCDD | 0.1 |

Table A5. Dioxins and Furans analytes by HRMS and detection limits required for each.

| Analyte | RL based on Low Calibration Standard pg/g based on 10g sample |
|---------------------|--|
| 2,3,7,8-TCDD | 0.05 |
| 1,2,3,7,8-PECDD | 0.05 |
| 1,2,3,4,7,8-HXCDD | 0.05 |
| 1,2,3,6,7,8-HXCDD | 0.05 |
| 1,2,3,7,8,9-HXCDD | 0.05 |
| 1,2,3,4,6,7,8-HPCDD | 0.05 |
| OCDD | 0.05 |
| 2,3,7,8-TCDF | 0.05 |
| 1,2,3,7,8-PECDF | 0.05 |
| 2,3,4,7,8-PECDF | 0.05 |
| 1,2,3,4,7,8-HXCDF | 0.05 |
| 1,2,3,6,7,8-HXCDF | 0.05 |
| 1,2,3,7,8,9-HXCDF | 0.05 |

| | |
|---------------------|------|
| 2,3,4,6,7,8-HXCDF | 0.05 |
| 1,2,3,4,6,7,8-HPCDF | 0.05 |
| 1,2,3,4,7,8,9-HPCDF | 0.05 |
| OCDF | 0.05 |

Table A6. PFAS analytes by LC-MS/MS and detection limits required for each.

| Analyte | RL based on low calibration standard ng/g based on 5g sample |
|--|---|
| Perfluorobutanoate (PFBA) | 0.16 |
| Perfluoropentanoate (PFPeA) | 0.08 |
| Perfluorohexanoate (PFHxA) | 0.04 |
| Perfluoroheptanoate (PFHpA) | 0.04 |
| Perfluorooctanoate (PFOA) | 0.04 |
| Perfluorononanoate (PFNA) | 0.04 |
| Perfluorodecanoate (PFDA) | 0.04 |
| Perfluoroundecanoate (PFUnA) | 0.04 |
| Perfluorododecanoate (PFDoA) | 0.04 |
| Perfluorotridecanoate (PFTrDA) | 0.04 |
| Perfluorotetradecanoate (PFTeDA) | 0.04 |
| Perfluorobutanesulfonate (PFBS) | 0.04 |
| Perfluoropentanesulfonate (PFPeS) | 0.04 |
| Perfluorohexanesulfonate (PFHxS) | 0.04 |
| Perfluoroheptanesulfonate (PFHpS) | 0.04 |
| Perfluorooctanesulfonate (PFOS) | 0.04 |
| Perfluorononanesulfonate (PFNS) | 0.04 |
| Perfluorodecanesulfonate (PFDS) | 0.04 |
| Perfluorododecanesulfonate (PFDoS) | 0.04 |
| 4:2 fluorotelomersulfonate (4:2 FTS) | 0.16 |
| 6:2 fluorotelomersulfonate (6:2 FTS) | 0.16 |
| 8:2 fluorotelomersulfonate (8:2 FTS) | 0.16 |
| N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) | 0.04 |
| N-Methylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) | 0.04 |
| Perfluorooctanesulfonamide (PFOSA), a.k.a FOSA | 0.04 |
| N-Methylperfluorooctanesulfonamide (N-MeFOSA) | 0.04 |
| N-Ethylperfluorooctanesulfonamide (N-EtFOSA) | 0.04 |
| N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE) | 0.4 |
| N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE) | 0.4 |
| Perfluoro-2-propoxypropanoate (HFPO-DA) | 0.8 |
| 4-dioxa-3H-perfluorononanoate (ADONA) | 0.8 |
| 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS) | 0.8 |
| 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) | 0.8 |

Table A7. PAH analytes by LR-GC/MS and detection limits required for each.

| Analyte | Sample Detection Limit ng/g based on 10g sample |
|---|--|
| Naphthalene | 0.5 |
| Acenaphthylene | 0.5 |
| Acenaphthene | 0.5 |
| Fluorene | 0.5 |
| Phenanthrene | 0.5 |
| Anthracene | 0.5 |
| Fluoranthene | 0.5 |
| Pyrene | 0.5 |
| Benz(a)anthracene | 0.5 |
| Chrysene | 0.5 |
| Benzo(b)fluoranthene | 0.5 |
| Benzo(j/k)fluoranthenes | 0.5 |
| Benzofluoranthenes | 0.5 |
| Benzo(e)pyrene | 0.5 |
| Benzo(a)pyrene | 0.5 |
| Perylene | 1.0 |
| Dibenzo(ah)anthracene | 1.0 |
| Indeno(1,2,3-cd)pyrene | 1.0 |
| Benzo(ghi)perylene | 1.0 |
| 2-Methylnaphthalene ¹ | 1.0 |
| 2,6-Dimethylnaphthalene ¹ | 1.0 |
| 2,3,5-Trimethylnaphthalene ¹ | 1.0 |
| 1-Methylphenanthrene | 1.0 |
| Dibenzothiophene | 1.0 |
| 1-Methylnaphthalene | 1.0 |
| C1-Naphthalenes | 1.0 |
| 1,2-Dimethylnaphthalene | 1.0 |
| C2-Naphthalenes | 1.0 |
| 2,3,6-Trimethylnaphthalene ¹ | 1.0 |
| C3-Naphthalenes ¹ | 1.0 |
| 1,4,6,7-Tetramethylnaphthalene ¹ | 1.0 |
| C4-Naphthalenes ¹ | 1.0 |
| 2-Methylphenanthrene | 1.0 |
| 3-Methylphenanthrene | 1.0 |
| 9/4-Methylphenanthrenes | 1.0 |
| 2-Methylantracene | 1.0 |
| C1-Phenanthrenes/Anthracenes | 1.0 |
| 1,7-Dimethylphenanthrene | 1.0 |
| 1,8-Dimethylphenanthrene | 1.0 |
| 2,6-Dimethylphenanthrene | 1.0 |
| 3,6-Dimethylphenanthrene | 1.0 |
| C2-Phenanthrenes/Anthracenes | 1.0 |
| 1,2,6-Trimethylphenanthrene | 1.0 |
| C3-Phenanthrenes/Anthracenes | 1.0 |
| Retene | 1.0 |
| C4-Phenanthrenes/Anthracenes | 1.0 |
| Biphenyl | 1.0 |
| C1-Biphenyls | 1.0 |
| C2-Biphenyls | 1.0 |
| C1-Acenaphthenes | 0.5 |
| 2-Methylfluorene | 1.0 |

| | |
|---------------------------------------|-----|
| C1-Fluorenes | 1.0 |
| 1,7-Dimethylfluorene | 1.0 |
| C2-Fluorenes | 1.0 |
| C3-Fluorenes | 1.0 |
| 2/3-Methyldibenzothiophenes | 1.0 |
| C1-Dibenzothiophene | 1.0 |
| 2,4-Dimethyldibenzothiophene | 1.0 |
| C2-Dibenzothiophene | 1.0 |
| C3-Dibenzothiophene | 1.0 |
| C4-Dibenzothiophene | 1.0 |
| 3-Methylfluoranthene/Benzo(a)fluorene | 1.0 |
| C1-Fluoranthenes/Pyrenes | 1.0 |
| C2-Fluoranthenes/Pyrenes | 1.0 |
| C3-Fluoranthenes/Pyrenes | 1.0 |
| C4-Fluoranthenes/Pyrenes | 1.0 |
| 1-Methylchrysene | 1.0 |
| 5/6-Methylchrysenes | 1.0 |
| C1-Benz(a)anthracenes/Chrysenes | 1.0 |
| 5,9-Dimethylchrysene | 1.0 |
| C2-Benz(a)anthracenes/Chrysenes | 1.0 |
| C3-Benz(a)anthracenes/Chrysenes | 1.0 |
| C4-Benz(a)anthracenes/Chrysenes | 1.0 |
| 7-Methylbenzo(a)pyrene | 1.0 |
| C1-Benzofluoranthenes/Benzopyrenes | 1.0 |
| C2-Benzofluoranthenes/Benzopyrenes | 1.0 |

Table A8. PPCP analytes by LC-MS/MS and detection limits required for each.

| Analyte | RL based on low calibration standard ng/g based on 1.0g sample |
|--------------------------|---|
| Acetaminophen | 15.0 |
| Azithromycin | 1.5 |
| Caffeine | 15.0 |
| Carbadox | 1.5 |
| Carbamazepine | 1.5 |
| Cefotaxime | 6.0 |
| Ciprofloxacin | 6.0 |
| Clarithromycin | 1.5 |
| Clinafloxacin | 6.0 |
| Cloxacillin ¹ | 3.0 |
| Dehydronifedipine | 0.6 |
| Digoxigenin | 6.0 |
| Digoxin | 6.0 |
| Diltiazem | 0.3 |
| 1,7-Dimethylxanthine | 60.0 |
| Diphenhydramine | 0.6 |
| Enrofloxacin | 3.0 |
| Erythromycin-H2O | 0.3 |
| Flumequine | 1.5 |
| Fluoxetine | 1.5 |
| Lincomycin | 3.0 |
| Lomefloxacin | 3.0 |
| Miconazole | 1.5 |
| Norfloxacin | 15.0 |

| | |
|-------------------------------|------|
| Norgestimate | 3.0 |
| Ofloxacin | 1.5 |
| Ormetoprim | 0.6 |
| Oxacillin | 3.0 |
| Oxolinic acid | 0.6 |
| Penicillin G | 3.0 |
| Penicillin V | 3.0 |
| Roxithromycin | 0.3 |
| Sarafloxacin | 15.0 |
| Sulfachloropyridazine | 1.5 |
| Sulfadiazine | 1.5 |
| Sulfadimethoxine | 0.3 |
| Sulfamerazine | 0.6 |
| Sulfamethazine | 0.6 |
| Sulfamethizole | 0.6 |
| Sulfamethoxazole | 0.6 |
| Sulfanilamide | 15.0 |
| Sulfathiazole | 1.5 |
| Thiabendazole | 1.5 |
| Trimethoprim | 1.5 |
| Tylosin | 6.0 |
| Virginiamycin | 3.0 |
| Anhydrochlortetracycline | 15.0 |
| Anhydrotetracycline | 15.0 |
| Chlortetracycline | 6.0 |
| Demeclocycline | 15.0 |
| Doxycycline | 6.0 |
| 4-Epianhydrochlortetracycline | 60.0 |
| 4-Epianhydrotetracycline | 15.0 |
| 4-Epichlortetracycline | 15.0 |
| 4-Epioxytetracycline | 6.0 |
| 4-Epitetracycline | 6.0 |
| Isochlortetracycline | 6.0 |
| Minocycline | 60.0 |
| Oxytetracycline | 6.0 |
| Tetracycline | 6.0 |
| Bisphenol A | 500 |
| Furosemide | 40.0 |
| Gemfibrozil | 1.5 |
| Glipizide | 6.0 |
| Glyburide | 3.0 |
| Hydrochlorothiazide | 20.0 |
| 2-hydroxy-ibuprofen | 80.0 |
| Ibuprofen | 15.0 |
| Naproxen | 3.0 |
| Triclocarban | 3.0 |
| Triclosan | 60.0 |
| Warfarin | 1.5 |
| Albuterol | 0.3 |
| Amphetamine | 1.5 |
| Atenolol | 0.6 |
| Atorvastatin | 1.5 |
| Cimetidine | 0.6 |

| | |
|--------------------------|------|
| Clonidine | 1.5 |
| Codeine | 3.0 |
| Cotinine | 1.5 |
| Enalapril | 0.3 |
| Hydrocodone | 1.5 |
| Metformin | 3.0 |
| Oxycodone | 0.6 |
| Ranitidine | 0.6 |
| Triamterene | 0.3 |
| Alprazolam | 0.3 |
| Amitriptyline | 0.3 |
| Amlodipine | 1.5 |
| Benzoylcegonine | 0.3 |
| Benzotropine | 0.3 |
| Betamethasone | 1.5 |
| Cocaine | 0.2 |
| DEET | 0.6 |
| Desmethyldiltiazem | 0.2 |
| Diazepam | 0.3 |
| Fluocinonide | 6.0 |
| Fluticasone propionate | 2.0 |
| Hydrocortisone | 60.0 |
| 10-hydroxy-amitriptyline | 0.2 |
| Meprobamate | 4.0 |
| Methylprednisolone | 4.0 |
| Metoprolol | 1.5 |
| Norfluoxetine | 1.5 |
| Norverapamil | 0.2 |
| Paroxetine | 4.0 |
| Prednisolone | 6.0 |
| Prednisone | 20.0 |
| Promethazine | 0.4 |
| Propoxyphene | 0.3 |
| Propranolol | 2.0 |
| Sertraline | 0.4 |
| Simvastatin | 20.0 |
| Theophylline | 60.0 |
| Trenbolone | 4.0 |
| Trenbolone acetate | 0.3 |
| Valsartan | 4.0 |
| Verapamil | 0.2 |
| Amsacrine | 0.8 |
| Azathioprine | 8.0 |
| Busulfan | 24.0 |
| Citalopram | 0.4 |
| Clotrimazole | 2.0 |
| Colchicine | 2.0 |
| Cyclophosphamide | 1.6 |
| Daunorubicin | 16.0 |
| Diatrizoic acid | 40.0 |
| Doxorubicin | 24.0 |
| Drospirenone | 8.0 |
| Etoposide | 4.0 |

| | |
|-----------------------------|------|
| Iopamidol | 80.0 |
| Medroxyprogesterone acetate | 4.0 |
| Melphalan | 64.0 |
| Metronidazole | 4.0 |
| Moxifloxacin | 4.0 |
| Oxazepam | 16.0 |
| Rosuvastatin | 16.0 |
| Tamoxifen | 0.4 |
| Teniposide | 8.0 |
| Venlafaxine | 0.4 |
| Zidovudine | 48.0 |

Table A9. Alkylphenols analytes by LR-GC/MS and detection limits required for each.

| Analyte | Sample Detection Limit |
|--------------------------------------|-------------------------------|
| | ng/g based on 5.0g sample |
| Nonylphenol (NP) | 5.0 |
| 4-Nonylphenol monoethoxylate (NP1EO) | 25.0 |
| 4-Nonylphenol diethoxylate (NP2EO) | 25.0 |
| Octylphenol (OP) | 25.0 |

**ANNEX B
BASIS OF PAYMENT**

The Contractor will be paid as follows:

The Contractor must provide a firm per analyte price for each contaminant class listed below to be considered responsive.

| Initial Contract Period – Contract Award to March 31, 2021 | | | |
|---|--|------------------------------|--------------------------|
| Contaminant Class | Quantity of Analytes (A) | Price per Analyte (B) | Price (C) (A)*(B) |
| Legacy and current use pesticides by HRMS | 24 | \$ _____ | \$ _____ |
| PCBs by HRMS method USEPA 1668 | 24 | \$ _____ | \$ _____ |
| PBDEs by HRMS method USEPA 1614 | 24 | \$ _____ | \$ _____ |
| Tetrabromobisphenol A by LCMS/MS with a required RL based on low calibration standard of 0.4 ng/g | 24 | \$ _____ | \$ _____ |
| HBCDD by LC-MS/MS | 24 | \$ _____ | \$ _____ |
| Dioxins & Furans by HRMS method USEPA 1613B | 24 | \$ _____ | \$ _____ |
| PFASs using LC-MS/MS | 24 | \$ _____ | \$ _____ |
| PAHs using LR-GC/MS | 24 | \$ _____ | \$ _____ |
| Alkylphenols using LR-GC/MS | 24 | \$ _____ | \$ _____ |
| Total Price for Initial Contract Period (Total of Column (C)) | \$ _____ applicable taxes extra | | |

| Option Period 1 – April 1, 2021 to March 31, 2022 | | | |
|---|--|------------------------------|--------------------------|
| Contaminant Class | Quantity of Analytes (A) | Price per Analyte (B) | Price (C) (A)*(B) |
| Legacy and current use pesticides by HRMS | 24 | \$ _____ | \$ _____ |
| PCBs by HRMS method USEPA 1668 | 24 | \$ _____ | \$ _____ |
| PBDEs by HRMS method USEPA 1614 | 24 | \$ _____ | \$ _____ |
| Tetrabromobisphenol A by LCMS/MS with a required RL based on low calibration standard of 0.4 ng/g | 24 | \$ _____ | \$ _____ |
| HBCDD by LC-MS/MS | 24 | \$ _____ | \$ _____ |
| Dioxins & Furans by HRMS method USEPA 1613B | 24 | \$ _____ | \$ _____ |
| PFASs using LC-MS/MS | 24 | \$ _____ | \$ _____ |
| PAHs using LR-GC/MS | 24 | \$ _____ | \$ _____ |
| Alkylphenols using LR-GC/MS | 24 | \$ _____ | \$ _____ |
| Total Price for Option Period 1 (Total of Column (C)) | \$ _____ applicable taxes extra | | |

| Option Period 2 – April 1, 2022 to March 31, 2023 | | | |
|---|--|------------------------------|--------------------------|
| Contaminant Class | Quantity of Analytes (A) | Price per Analyte (B) | Price (C) (A)*(B) |
| Legacy and current use pesticides by HRMS | 24 | \$ _____ | \$ _____ |
| PCBs by HRMS method USEPA 1668 | 24 | \$ _____ | \$ _____ |
| PBDEs by HRMS method USEPA 1614 | 24 | \$ _____ | \$ _____ |
| Tetrabromobisphenol A by LCMS/MS with a required RL based on low calibration standard of 0.4 ng/g | 24 | \$ _____ | \$ _____ |
| HBCDD by LC-MS/MS | 24 | \$ _____ | \$ _____ |
| Dioxins & Furans by HRMS method USEPA 1613B | 24 | \$ _____ | \$ _____ |
| PFASs using LC-MS/MS | 24 | \$ _____ | \$ _____ |
| PAHs using LR-GC/MS | 24 | \$ _____ | \$ _____ |
| Alkylphenols using LR-GC/MS | 24 | \$ _____ | \$ _____ |
| Total Price for Option Period 2 (Total of Column (C)) | \$ _____ applicable taxes extra | | |

| Option Period 3 – April 1, 2023 to March 31, 2024 | | | |
|---|--|------------------------------|--------------------------|
| Contaminant Class | Quantity of Analytes (A) | Price per Analyte (B) | Price (C) (A)*(B) |
| Legacy and current use pesticides by HRMS | 24 | \$ _____ | \$ _____ |
| PCBs by HRMS method USEPA 1668 | 24 | \$ _____ | \$ _____ |
| PBDEs by HRMS method USEPA 1614 | 24 | \$ _____ | \$ _____ |
| Tetrabromobisphenol A by LCMS/MS with a required RL based on low calibration standard of 0.4 ng/g | 24 | \$ _____ | \$ _____ |
| HBCDD by LC-MS/MS | 24 | \$ _____ | \$ _____ |
| Dioxins & Furans by HRMS method USEPA 1613B | 24 | \$ _____ | \$ _____ |
| PFASs using LC-MS/MS | 24 | \$ _____ | \$ _____ |
| PAHs using LR-GC/MS | 24 | \$ _____ | \$ _____ |
| Alkylphenols using LR-GC/MS | 24 | \$ _____ | \$ _____ |
| Total Price for Option Period 3 (Total of Column (C)) | \$ _____ applicable taxes extra | | |

| Option Period 4 – April 1, 2024 to March 31, 2025 | | | |
|---|--|------------------------------|--------------------------|
| Contaminant Class | Quantity of Analytes (A) | Price per Analyte (B) | Price (C) (A)*(B) |
| Legacy and current use pesticides by HRMS | 24 | \$ _____ | \$ _____ |
| PCBs by HRMS method USEPA 1668 | 24 | \$ _____ | \$ _____ |
| PBDEs by HRMS method USEPA 1614 | 24 | \$ _____ | \$ _____ |
| Tetrabromobisphenol A by LCMS/MS with a required RL based on low calibration standard of 0.4 ng/g | 24 | \$ _____ | \$ _____ |
| HBCDD by LC-MS/MS | 24 | \$ _____ | \$ _____ |
| Dioxins & Furans by HRMS method USEPA 1613B | 24 | \$ _____ | \$ _____ |
| PFASs using LC-MS/MS | 24 | \$ _____ | \$ _____ |
| PAHs using LR-GC/MS | 24 | \$ _____ | \$ _____ |
| Alkylphenols using LR-GC/MS | 24 | \$ _____ | \$ _____ |
| Total Price for Option Period 4 (Total of Column (C)) | \$ _____ applicable taxes extra | | |

| Total Price Initial Contract Period and Option Periods | |
|---|------------------------------------|
| Total Price for Initial Contract Period | \$ _____ applicable taxes extra |
| Total Price for Option Period 1 | \$ _____ applicable taxes extra |
| Total Price for Option Period 2 | \$ _____ applicable taxes extra |
| Total Price for Option Period 3 | \$ _____ applicable taxes extra |
| Total Price for Option Period 4 | \$ _____ applicable taxes extra |
| Total Price Initial Period and Option Periods | \$ _____ applicable taxes extra |

**ANNEX C
LIST OF NAMES FOR INTEGRITY VERIFICATION FORM**

Bidders must complete the attached List of Names for Integrity Verification Form.

Environnement et Changement climatique Canada a adopté le régime d'intégrité développé et mis en place par Services publics et Approvisionnement Canada. Les fournisseurs acceptent, en soumettant une proposition, de se conformer aux dispositions du régime d'intégrité et la [Politique d'inadmissibilité et de suspension](#) ainsi que le [Code de conduite pour l'approvisionnement](#). / Environment and Climate Change Canada has endorsed the Integrity Regime developed and implemented by Public Services and Procurement Canada. By submitting a quote, Contractors agree to comply with the provisions of the Integrity Regime and [Ineligibility and Suspension Policy](#) as well as the [Code of Conduct for Procurement](#).

Selon la [Politique d'inadmissibilité et de suspension](#) de TPSGC (maintenant SPAC), les renseignements suivants doivent être fournis lors d'une soumission ou de la passation d'un marché.¹ / In accordance with the PWGSC (now PSPC) [Ineligibility and Suspension Policy](#), the following information is to be provided when bidding or contracting.¹

* Informations obligatoires / Mandatory Information

| | |
|--|---|
| *Dénomination complète de l'entreprise / Complete Legal Name of Company | |
| | |
| *Nom commercial / Operating Name | |
| | |
| *Adresse de l'entreprise / Company's address | *Type d'entreprise / Type of Ownership |
| | <input type="checkbox"/> Individuel / Individual <input type="checkbox"/> Corporation / Corporation <input type="checkbox"/> Coentreprise / Joint Venture |
| *Membres du conseil d'administration² / Board of Directors² | |

¹ **Liste des noms :** Tous les fournisseurs, peu importe leur situation au titre de la Politique, doivent présenter les renseignements ci-dessous au moment de prendre part à un processus d'approvisionnement:

- les fournisseurs constitués en personne morale, y compris ceux qui présentent une soumission à titre de coentreprise, doivent fournir la liste complète des noms de tous les administrateurs actuels ou, dans le cas d'une entreprise privée, des propriétaires de la société;
- les fournisseurs soumissionnant à titre d'entreprise à propriétaire unique, y compris ceux soumissionnant en tant que coentreprise, doivent fournir la liste complète des noms de tous les propriétaires;
- les fournisseurs soumissionnant à titre de société en nom collectif n'ont pas à soumettre une liste de noms.

List of names: All suppliers, regardless of their status under the Policy, must submit the following information when participating in a procurement process:

- suppliers that are corporate entities, including those bidding as joint ventures, must provide a complete list of the names of all current directors or, for a privately owned corporation, the names of the owners of the corporation;
- suppliers bidding as sole proprietors, including sole proprietors bidding as joint ventures, must provide a complete list of the names of all owners; or
- suppliers that are a partnership do not need to provide a list of names.

² Conseil des gouverneurs / Board of Governors; Conseil de direction / Board of Managers; Conseil de régents / Board of Regents; Conseil de fiducie / Board of Trustees; Comité de réception / Board of Visitors

| (Ou mettre la liste en pièce-jointe / Or provide the list as an attachment) | | |
|--|----------------------------|--|
| Prénom / First name | Nom / Last Name | Position (si applicable) / Position (if applicable) |
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