

**RETURN BIDS TO:**

## RETOURNER LES SOUMISSIONS À:

**Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions  
Travaux publics et Services gouvernementaux  
Canada**

**1713 Bedford Row**

**Halifax, N.S./Halifax, (N.É.)**

**Halifax**

## Nova Scotia

**B3J 1T3**

**Bid Fax: (902) 496-5016**

## Request For a Standing Offer Demande d'offre à commandes

### Regional Individual Standing Offer (RISO)

### Offre à commandes individuelle régionale (OCIR)

Canada, as represented by the Minister of Public Works and Government Services Canada, hereby requests a Standing Offer on behalf of the Identified Users herein.

Le Canada, représenté par le ministre des Travaux Publics et Services Gouvernementaux Canada, autorise par la présente, une offre à commandes au nom des utilisateurs identifiés énumérés ci-après.

## Comments - Commentaires

**Vendor/Firm Name and Address****Raison sociale et adresse du fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**

Atlantic Region Acquisitions/Région de l'Atlantique  
Acquisitions

1713 Bedford Row

Halifax, N.S./Halifax, (N.É.)

Halifax

Nova Scot

B3J 1T3

<b>Title - Sujet</b> Water Quality Testing	
<b>Solicitation No. - N° de l'invitation</b> W010C-180134/A	<b>Date</b> 2018-06-01
<b>Client Reference No. - N° de référence du client</b> W010C-18-0134	<b>GETS Ref. No. - N° de réf. de SEAG</b> PW-\$HAL-321-10409
<b>File No. - N° de dossier</b> HAL-7-79262 (321)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2018-07-12</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Atlantic Daylight Saving Time ADT
<b>Delivery Required - Livraison exigée</b>  See Herein	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Baurin, Bruno	<b>Buyer Id - Id de l'acheteur</b> hal321
<b>Telephone No. - N° de téléphone</b> (902)402-6891 ( )	<b>FAX No. - N° de FAX</b> (902)496-5016
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF NATIONAL DEFENCE WILLOW PARK BLDG 7 STN FORCES HALIFAX NOVA SCOTIA B3K5X5 Canada	
<b>Security - Sécurité</b> This request for a Standing Offer does not include provisions for security. Cette Demande d'offre à commandes ne comprend pas des dispositions en matière de sécurité.	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Vendor/Firm Name and Address</b>	
<b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b>	
<b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm (type or print)</b>	
<b>Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

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W010C-180134/A  
Client Ref. No. - N° de réf. du client  
W010C-180134

Amd. No. - N° de la modif.  
File No. - N° du dossier  
HAL-7-79262

Buyer ID - Id de l'acheteur  
HAL321  
CCC No./N° CCC - FMS No./N° VME

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## PART 1 - GENERAL INFORMATION

### 1.1 Introduction

The Request for Standing Offers (RFSO) is divided into seven parts plus attachments and annexes, as follows:

- |        |   |
|--------|---|
| Part 1 | General Information: provides a general description of the requirement;   |
| Part 2 | Offeror Instructions: provides the instructions applicable to the clauses and conditions of the RFSO;   |
| Part 3 | Offer Preparation Instructions: provides offerors with instructions on how to prepare their offer to address the evaluation criteria specified;   |
| Part 4 | Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria which must be addressed in the offer, and the basis of selection;   |
| Part 5 | Certifications and Additional Information: includes the certifications and additional information to be provided;   |
| Part 6 | Security, Financial and Insurance Requirements: includes specific requirements that must be addressed by offerors; and  |
| Part 7 | 7A, Standing Offer, and 7B, Resulting Contract Clauses:<br><br>7A, includes the Standing Offer containing the offer from the Offeror and the applicable clauses and conditions;<br><br>7B, includes the clauses and conditions which will apply to any contract resulting from a call-up made pursuant to the Standing Offer. |

The Annexes include the Statement of Work, the Basis of Payment, and any other annexes

### 1.2 Summary

The Department of National Defence CFB Halifax has a requirement for one (1) Regional Individual Standing Offer (RISO) agreement to carry out collection and analysis of Various types of samples (this includes various types of water samples, building bulk samples, and air samples) by a laboratory that has achieved proficiency certification by the Canadian Association of Environmental Analytical Laboratories (CAEAL), complete with documented results for each sample as specified in the attached Specifications in Annex A. The work required is based on an "as and when required" basis. A Pre-Job Meeting will be required between the Contractor and the Project Authority prior to the commencement of any work.

The user of this Standing Offer will be CFB Halifax (*HMC Dockyard Water Fuel Environment (WFE) Lab.*

**The requirement is limited to Canadian goods and/or services.**

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), the Canada-European

Union Comprehensive Economic and Trade Agreement (CETA), and the Canadian Free Trade Agreement (CFTA)."

### 1.3 Debriefings

Offerors may request a debriefing on the results of the request for standing offers process. Offerors should make the request to the Standing Offer Authority within 15 working days of receipt of the results of the request for standing offers process. The debriefing may be in writing, by telephone or in person.

## PART 2 - OFFEROR INSTRUCTIONS

### 2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the Request for Standing Offers (RFSO) 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) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Offerors who submit an offer agree to be bound by the instructions, clauses and conditions of the RFSO and accept the clauses and conditions of the Standing Offer and resulting contract(s).

The [2006](#) (2017-04-27) Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the RFSO.

Subsection 5.4 of [2006](#), Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days  
Insert: 90 days

### 2.2 Submission of Offers

Offers must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the Request for Standing Offers.

Due to the nature of the Request for Standing Offers, transmission of offers by facsimile to PWGSC 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 FPS, offerors must provide the information required below before the issuance of a standing offer. If the answer to the questions and, as applicable the information required have not been received by the time the evaluation of offers is completed, Canada will inform the Offeror 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 offer 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 Offeror a FPS in receipt of a pension? **YES ( ) NO ( )**

If so, the Offeror 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, Offerors agree that the successful Offeror'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 Offeror a FPS who received a lump sum payment pursuant to the terms of the Work Force Adjustment Directive? **YES ( ) NO ( )**

If so, the Offeror 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 - Request for Standing Offers**

All enquiries must be submitted in writing to the Standing Offer Authority no later than ten (10) calendar days before the Request for Standing Offers (RFSO) closing date. Enquiries received after that time may not be answered.

Offerors should reference as accurately as possible the numbered item of the RFSO to which the enquiry relates. Care should be taken by offerors 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 offerors do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all offerors. Enquiries not submitted in a form that can be distributed to all offerors may not be answered by Canada.

## **2.5 Applicable Laws**

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in **Nova Scotia**.

Offerors may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their offer, 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 offerors.

# **PART 3 - OFFER PREPARATION INSTRUCTIONS**

## **3.1 Offer Preparation Instructions**

Canada requests that offerors provide their offer in separately bound sections as follows:

- Section I: Technical Offer (2 hard copies)
- Section II: Financial Offer (1 hard copy)
- Section III: Certifications (1 hard copy)

Canada requests that offerors follow the format instructions described below in the preparation of hard copy of their offer:

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

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, Offerors 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 Offer**

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

#### **Section II: Financial Offer**

Offerors must submit their financial offer in accordance with the Basis of Payment detailed below in Annex B.

#### **Section III: Certifications**

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

### **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

#### **4.1 Evaluation Procedures**

- (a) Offers will be assessed in accordance with the entire requirement of the Request for Standing Offers including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the offers.

##### **4.1.1 Technical Evaluation**

###### **4.1.1.1 Mandatory Technical Criteria**

- 1. A copy of their proficiency certification by the Canadian Association for Environmental Analytical Laboratories (CAEAL).
- 2. Proof of an Independent Safety Audit; and
- 3. Confirmation of Workers Compensation Coverage.

##### **4.1.2 Financial Evaluation**



The evaluation shall be conducted in accordance with Annex B. The supplier **MUST** complete in full the 2 Pricing Tables found *at the end of* Annex B. For Financial Evaluation purposes only, the sum of all the Offeror's Pricing for each of the possible three (3) years will be used to calculate the Offeror's Price.

## **4.2 Basis of Selection**

### **4.2.1 Mandatory Technical Criteria Only**

An offer must comply with the requirements of the Request for Standing Offer and meet all of the mandatory technical evaluation criteria to be declared responsive. The responsive offer with the lowest evaluated price will be recommended for issuance of a standing offer.

## **PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION**

Offerors must provide the required certifications and additional information to be issued a standing offer.

The certifications provided by offerors to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare an offer non-responsive, will have the right to set-aside a standing offer, or will declare a contractor in default if any certification made by the Offeror is found to be untrue whether made knowingly or unknowingly during the offer evaluation period, during the Standing Offer period, or during the contract period.

The Standing Offer Authority will have the right to ask for additional information to verify the Offeror's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Standing Offer Authority will render the offer non-responsive, result in the setting aside of the Standing Offer or constitute a default under the Contract.

### **5.1 Certifications Precedent to the Issuance of a Standing Offer**

The certifications and additional information listed below should be submitted with the offer, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Standing Offer Authority will inform the Offeror 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 offer non-responsive.

#### **5.1.1 Integrity Provisions – Required Documentation**

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

#### **5.1.2 Federal Contractors Program for Employment Equity - Standing Offer Certification**

By submitting an offer, the Offeror certifies that the Offeror, and any of the Offeror's members if the Offeror 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-Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#s4) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#s4>).

Canada will have the right to declare an offer non-responsive, or to set-aside a Standing Offer, if the Offeror, or any member of the Offeror if the Offeror is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of issuing of a Standing Offer or during the period of the Standing Offer.

### 5.1.3 Additional Certifications Precedent to Issuance of a Standing Offer

The following Additional Certifications Precedent to Contract Award, 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 that time frame provided will render the bid non-responsive.

#### 5.1.3.1 Canadian Content Certification

5.1.3.1.1 SACC Manual clause [A3050T](#) (2014-11-27) Canadian Content Definition

#### 5.1.3.2 Status and Availability of Resources

SACC clause M3020T (2010-01-11) Status and Availability of Resources

## PART 6 - STANDING OFFER AND RESULTING CONTRACT CLAUSES

### A. STANDING OFFER

#### 6.1 Offer

6.1.1 The Offeror offers to fulfill the requirement in accordance with the Statement of Work at Annex "A".

#### 6.2 Security Requirements

6.2.1 There is no security requirement applicable to the Standing Offer.

#### 6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Standing Offer and resulting contract(s) 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) (<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

[2005](#) (2017-06-21) General Conditions - Standing Offers - Goods or Services, apply to and form part of the Standing Offer.

#### 6.3.2 Standing Offers Reporting

The Offeror must compile and maintain records on its provision of goods and services to Canada under contracts resulting from the Standing Offer. This data must include all purchases done by Canada, including those acquired and paid for by Canada acquisition cards.

The Offeror must provide this data in accordance with the reporting requirements detailed in annex "C". If some data is not available, the reason must be indicated in the report. If no goods or services is provided during a given period, the Offeror must provide a "nil" report.

The data must be submitted on a **quarterly basis** to the Standing Offer Authority.

The quarterly reporting periods are defined as follows:

- first quarter: April 1 to June 30
- second quarter: July 1 to September 30
- third quarter: October 1 to December 31
- fourth quarter: January 1 to March 31

The data must be submitted to the Standing Offer Authority no later than 15 calendar days after the end of the reporting period. The Offeror shall also notify within fifteen days when 75% of the Standing Offer has been expended.

#### **6.4 Term of Standing Offer**

##### **6.4.1 Period of the Standing Offer**

The period for making call-ups against the Standing Offer is from date of issuance of Standing Offer for a one (1) year duration.

##### **6.4.2 Extension of Standing Offer**

If the Standing Offer is authorized for use beyond the initial period, the Offeror offers to extend its offer for **2 additional 12 month periods** under the same conditions and at the rates or prices specified in the Standing Offer, or at the rates or prices calculated in accordance with the formula specified in the Standing Offer.

The Offeror will be advised of the decision to authorize the use of the Standing Offer for an extended period by the Standing Offer Authority before the expiry date of the Standing Offer. A revision to the Standing Offer will be issued by the Standing Offer Authority.

#### **6.5 Authorities**

##### **6.5.1 Standing Offer Authority**

The Standing Offer Authority is:

The Standing Offer Authority is:

Name: Bruno Baurin  
Title: Supply Officer

Address: 1713 Bedford Row  
Halifax, Nova Scotia  
B3J 1T3

Telephone: 902-402-6891  
Facsimile: 902-496-5016  
E-mail: Bruno.baurin@pwgsc.gc.ca

The Standing Offer Authority is responsible for the establishment of the Standing Offer, its administration and its revision, if applicable. Upon the making of a call-up, as Contracting Authority, he is responsible for any contractual issues relating to individual call-ups made against the Standing Offer by any Identified User.

### 6.5.2 Project Authority

The Project Authority for the Standing Offer is identified in the call-up against the Standing Offer.

The Project Authority is the representative of the department or agency for whom the Work will be carried out pursuant to a call-up against the Standing Offer and is responsible for all the technical content of the Work under the resulting Contract.

### 6.5.3 Offeror's Representative – To be completed by the Offeror

Name: Title:  
Organization:

Address:

Telephone:  
Facsimile:  
E-mail

### 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 Identified Users

The Identified User authorized to make call-ups against the Standing Offer with DND Halifax is as follows:

- CFB - HMC Dockyard, Building D211 Water Fuel Environment (WFE) Lab Halifax

### 6.8 Call-up Instrument

The Work will be authorized or confirmed by the Identified User(s) using the duly completed forms or their equivalents as identified in paragraphs 1 and 2 below, or by using Canada acquisition cards (Visa or MasterCard) for low dollar value requirements.

1. Call-ups must be made by Identified Users' authorized representatives under the Standing Offer and must be for goods or services or combination of goods and services included in the Standing Offer at the prices and in accordance with the terms and conditions specified in the Standing Offer.
2. Any of the following forms could be used which are available through [PWGSC Forms Catalogue](#) website:
  - PWGSC-TPSGC 942 Call-up Against a Standing Offer
  - PWGSC-TPGSC 942-2 Call-up Against a Standing Offer - Multiple Delivery
  - PWGSC-TPSGC 944 Call-up Against Multiple Standing Offers (English version)
  - PWGSC-TPSGC 945 Commande subséquente à plusieurs offres à commandes (French version)

or

3. An equivalent form or electronic call-up document which contains at a minimum the following information:

- standing offer number;
- statement that incorporates the terms and conditions of the Standing Offer;
- description and unit price for each line item;
- total value of the call-up;
- point of delivery;
- confirmation that funds are available under section 32 of the Financial Administration Act;
- confirmation that the user is an Identified User under the Standing Offer with authority to enter into a contract.

## 6.9 Limitation of Call-ups

Individual call-ups against the Standing Offer must not exceed \$25,000.00 (Applicable Taxes included).

## 6.10 Financial Limitation

The total cost to Canada resulting from call ups against the Standing Offer must not exceed the sum of \$\_\_\_\_\_ (*Applicable Taxes excluded*) unless otherwise authorized in writing by the Standing Offer Authority. The Offeror must not perform any work or services or supply any articles in response to call ups which would cause the total cost to Canada to exceed the said sum, unless an increase is so authorized.

The Offeror must notify the Standing Offer Authority as to the adequacy of this sum when 75 percent of this amount has been committed, or before the expiry date of the Standing Offer, whichever comes first. However, if at any time, the Offeror considers that the said sum may be exceeded, the Offeror must promptly notify the Standing Offer Authority.

## 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 call up against the Standing Offer, including any annexes;
- b) the articles of the Standing Offer;
- c) the general conditions 2005 (2017-06-21), General Conditions - Standing Offers - Goods or Services
- d) the general conditions 2010B (2016-04-04); General Conditions – Professional Services (Medium Complexity);
- e) Annex A, Statement of Work;
- f) Annex B, Basis of Payment;
- g) Annex C, Periodic Usage Reports;
- h) the Offeror's offer dated \_\_\_\_\_

## 6.12 Certifications

### 6.12.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Offeror with its offer or precedent to issuance of the Standing Offer (SO), and the ongoing cooperation in providing additional information are conditions of issuance of the SO and failure to comply will constitute the Offeror in default. Certifications are subject to verification by Canada during the entire period of the SO and of any resulting contract that would continue beyond the period of the SO.

### 6.12.2 SACC Manual Clauses

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A3060C	(2008-05-12)	Canadian Content Certification
M3060C	(2008-05-12)	Canadian Content Certification
M3020C	(2016-01-28)	Status and Availability of Resources

### 6.13 Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in Nova Scotia.

## B. RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from a call-up against the Standing Offer.

### 7.1 Statement of Work

The Contractor must perform the Work described in the call-up against the Standing Offer, as described in Annex A.

### 7.2 Standard Clauses and Conditions

#### 7.2.1 General Conditions

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

### 7.3 Term of Contract

#### 7.3.1 Period of the Contract

The Work must be completed in accordance with the call-up against the Standing Offer.

### 7.4 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 (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.

### 7.5 Payment

#### 7.5.1 Basis of Payment

The Contractor will be paid its costs reasonably and properly incurred in the performance of the Work, in accordance with Annex B herein.

#### 7.5.2 Limitation of Expenditure

1. Canada's total liability to the Contractor under the Contract must not exceed \$ \_\_\_\_\_. Customs duties are included (if applicable) and Applicable Taxes are extra.

2. No increase in the total liability of Canada or in the price of the Work resulting from any design changes, modifications or interpretations of the Work, will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been approved, in writing, by the Contracting Authority before their incorporation into the Work. The Contractor must not perform any work or provide any service that would result in 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.

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.

### **7.5.3 Method of Payment – Single Payment**

Payment by Canada for the work will be made following delivery, acceptance and inspection of the work, and upon presentation of invoices and other substantiating documentations as required by Canada.

SACC Manual Clause H1000C (2008-05-12) Single Payment.

### **7.6 Invoicing Instructions**

Accounts Payable Section  
Real Property Operations Section - Halifax  
Maritime Forces Atlantic PO Box 99000  
Station Forces, Willow Park Bldg WL7  
Halifax, NS B3K 5X5

Invoices must be submitted within 30 days of completion of Work.  
Each invoice will indicate the following information:

1. Contract number;
2. Work order / serial number;
3. Requisition /order offer number;
4. Building number or location;
5. Dates during which the Work was accomplished;
6. A detailed description of the Work performed, with itemized list of materials & labour (a copy of the Contractor's invoice from his material supplier will also be included plus any other costs being charged), labour, overhead, profit and applicable taxes will be included separately on the invoice.
7. Labour costs are to be broken down by trade and sub-trade. Labour time sheets will also be provided upon request.

No invoices will be processed without proper information as outlined.

1. DND payments to Contractor will be done through direct deposit process. The Contractor will be required to provide the following to Accounts Payable Section:
  - a) banking information for direct deposit; and

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b) E-mail address.

#### **7.7 Insurance**

*SACC Manual* clause G1005C (2016-01-28) Insurance

#### **7.8 Defence Contract**

*SACC Manual* Clause A9006C (2012-07-16), Defence Contract



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## **ANNEX "A"**

### **STATEMENT OF WORK**

**See attached herein.**

**ANNEX "B"**

**BASIS OF PAYMENT**

**TABLE 1**

	Year 1		Year 2		Year 3	
<b>Water Sample Analysis (per Analytical Package)</b>	<b>Analysis Price per Sample</b>		<b>Analysis Price per Sample</b>		<b>Analysis Price per Sample</b>	
<b><u>Portable Water</u></b>	<b>Routine Sampling Analysis</b>	<b>Emergency Sampling Analysis</b>	<b>Routine Sampling Analysis</b>	<b>Emergency Sampling Analysis</b>	<b>Routine Sampling Analysis</b>	<b>Emergency Sampling Analysis</b>
Radionuclides (Bq/L) checked	\$	\$	\$	\$	\$	\$
Total Metals	\$	\$	\$	\$	\$	\$
General Chemistry (RCAP)	\$	\$	\$	\$	\$	\$
RCAP- MS Total Metals	\$	\$	\$	\$	\$	\$
Elements (ICP- MS)	\$	\$	\$	\$	\$	\$
Elements (ICP- OES)	\$	\$	\$	\$	\$	\$
Volatile Organic Compounds	\$	\$	\$	\$	\$	\$
Semi- Volatiles	\$	\$	\$	\$	\$	\$
TPH / BTEX	\$	\$	\$	\$	\$	\$
Pesticides	\$	\$	\$	\$	\$	\$
Diuron, Guthion, Temephos	\$	\$	\$	\$	\$	\$
Diquat/Paraquat	\$	\$	\$	\$	\$	\$
Glycols	\$	\$	\$	\$	\$	\$
Polycyclic Aromatic Hydrocarbons	\$	\$	\$	\$	\$	\$
Bacteriological	\$	\$	\$	\$	\$	\$

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Individual Potable Water Analysis / Parameters / Packages	\$	\$	\$	\$	\$	\$
<u>Treated Sewage Water</u>						
All Chemicals Sample Testing	\$	\$	\$	\$	\$	\$
<u>Swimming Pool Water</u>						
All Chemicals Sample Testing	\$	\$	\$	\$	\$	\$
<u>Oily Wastewater Treatment Plant Effluent</u>						
TPH / BTEX	\$	\$	\$	\$	\$	\$
MTBE	\$	\$	\$	\$	\$	\$
TPH Fractionation	\$	\$	\$	\$	\$	\$
MOG + TOG	\$	\$	\$	\$	\$	\$
TOTAL PRICE PER YEAR (ROUTINE SAMPLE ANALYSIS)	\$ _____ (For Year 1)		\$ _____ (For Year 2)		\$ _____ (For Year 3)	
TOTAL PRICE PER YEAR (EMERGENCY SAMPLE ANALYSIS)	\$ _____ (For Year 1)		\$ _____ (For Year 2)		\$ _____ (For Year 3)	

**TABLE 2**

	<u>Year 1</u>	<u>Year 2</u>	<u>Year3</u>
	Analysis Price Per Sample	Analysis Price Per Sample	Analysis Price Per Sample
<b><u>Soil, Sediment, Effluent, and Non- Potable Water</u></b>	<b><u>Emergency Price Only Sampling Analysis (Price Per Sample)</u></b>	<b><u>Emergency Price Only Sampling Analysis (Price Per Sample)</u></b>	<b><u>Emergency Price Only Sampling Analysis (Price Per Sample)</u></b>
Metals	\$	\$	\$
Volatile Organic Compounds	\$	\$	\$
TPH / BTEX	\$	\$	\$
TPH Fractionation	\$	\$	\$
PHC	\$	\$	\$
Polycyclic Aromatic Hydrocarbons	\$	\$	\$
Pesticides	\$	\$	\$
PCB (Total)	\$	\$	\$
Glycol (Total)	\$	\$	\$
Ethylene Glycol	\$	\$	\$
Propylene Glycol	\$	\$	\$
Diethylene Glycol	\$	\$	\$
MTBE	\$	\$	\$
Hexavalent Chromium	\$	\$	\$
Trivalent Chromium	\$	\$	\$
Methylmercury	\$	\$	\$
Radiological Parameters	\$	\$	\$
Cyanide	\$	\$	\$
Tributhyl Tin	\$	\$	\$

Phenol (individual)	\$	\$	\$
Total Phenolics (aggregate)	\$	\$	\$
MOG (Mineral, Oil and Grease)	\$	\$	\$
TOG (Total Oil and Grease)	\$	\$	\$
<b><u>Specific to Soil</u></b>			
Grain Size Analyses	\$	\$	\$
Petroleum Degrading Bacteria	\$	\$	\$
Fraction Organic Carbon	\$	\$	\$
Total Organic Carbon	\$	\$	\$
pH	\$	\$	\$
Nitrate	\$	\$	\$
Nitrate as N	\$	\$	\$
Nitrate and Nitrite	\$	\$	\$
<b><u>Specific to Non-Potable Water</u></b>			
General Chemistry	\$	\$	\$
BOD (Biochemical Oxygen Demand)	\$	\$	\$
COD (Chemical Oxygen Demand)	\$	\$	\$
Fecal Coliform	\$	\$	\$
KN (Total Kjeldahl Nitrogen)	\$	\$	\$
<b><u>Hazardous Materials (e.g. Building Materials)</u></b>			

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Asbestos	\$	\$	\$
Lead Paint	\$	\$	\$
Lead Paint Leachate	\$	\$	\$
Mercury in Paint	\$	\$	\$
Mercury Leachate	\$	\$	\$
PCB in Paint			
<b><u>Air</u></b>			
Asbestos	\$	\$	\$
Mould	\$	\$	\$
TPH/BTEX	\$	\$	\$
NOx	\$	\$	\$
VOC in Air	\$	\$	\$
Total Dust	\$	\$	\$
Particulate	\$	\$	\$
Dioxin and Furans	\$	\$	\$
Petroleum Hydrocarbon Mass Fractions	\$	\$	\$
Petroleum Hydrocarbon Molecular Weight Determination	\$	\$	\$
<b><u>Oil</u></b>			
Product Characterization	\$	\$	\$
	\$	\$	\$

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Viscosity			
Resemblance	\$	\$	\$
Density	\$	\$	\$
Fraction	\$	\$	\$
PCBs	\$	\$	\$
Lead	\$	\$	\$
<b><u>Tissue (Flora and Fauna)</u></b>			
E Coli	\$	\$	\$
Hexavalent Chromium	\$	\$	\$
Methylmercury	\$	\$	\$
PCB (Total)	\$	\$	\$
Metals	\$	\$	\$
Pesticides	\$	\$	\$
TEH	\$	\$	\$
Polycyclic Aromatic Hydrocarbons	\$	\$	\$
Volatile Organic Compounds	\$	\$	\$
		\$	\$
<b>TOTAL PRICE PER YEAR (EMERGENCY SAMPLE ANALYSIS)</b>	<b>\$ _____ (For Year 1)</b>	<b>\$ _____ (For Year 2)</b>	<b>\$ _____ (For Year 3)</b>

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**MISCELLANEOUS ITEMS:**

Miscellaneous, similar or related items not listed above at the time issuance of the standing offer may be added to the Standing Offer, if the estimated aggregate value of all items does not exceed 15% of the overall value of the Standing Offer.

**For Financial Evaluation purposes only, the sum of each year will be used to calculate each Offeror's pricing, to determine the lowest priced proposal.**

**Total Sum of Price Samples – Per Year for all 2 Tables**

\$ _____ (For Year 1)	\$ _____ (For Year 2)	\$ _____ (For Year 3)
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**Grand Total Cost for all 3 Years: \$ \_\_\_\_\_ + HST (15%)**

**Applicable taxes are to be listed separately.**



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## Product Usage Report

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Department of National Defence



Specification

Standing Offer Agreement

**Analytical Laboratory Services  
for  
Routine Sampling Program**

CFB Halifax, NS

<u>Section</u>	<u>Title</u>	<u>Pages</u>
<u>Division 01 - General Requirements</u>		
01 11 00	General Instructions	3
01 29 83	Analytical Laboratory Services	7
01 29 83.01	Annex A WFE Shop Location	1
01 29 83.02	Annex B Analysis	33

PART 1 - GENERAL

- 1.1 RELATED SECTIONS
- .1 Section 01 29 83 Analytical Laboratory Services.
  - .2 Section 01 29 83.02 Analysis.
- 1.2 DESCRIPTION OF WORK
- .1 Work under this Standing Offer Agreement comprises the furnishing of all labour, material, tools, equipment, transportation, and supervision required to provide analytical laboratory services for the routine sampling program of the Real Property Operations Section - Halifax (RPOS(H)) Water, Fuel, Environment (WFE) Section as specified herein.
- 1.3 ENGINEER
- .1 All reference to the Engineer in this specification, who is the Contract Inspector which is representing the Real Property Operations Section - Halifax (RPOS(H)).
  - .2 The Engineer will provide the Contractor with a list of his / her authorized representatives at the pre-job meeting.
- 1.4 WORK INCLUDED
- .1 Work included in this Standing Offer Agreement includes but will not be limited to the following:
    - .1 Provide DND with sampling and shipping materials.
    - .2 At DND request, provide laboratory services but not necessarily limited to the following analysis categories:
      - .1 microbiology of water, effluent and sewage;
      - .2 toxicology of water, effluent and sewage;
      - .3 physical chemistry of water; and
      - .4 potable water analysis.
    - .3 Conduct various types of analysis on various media collected by DND during their routine sampling program. Conduct the required analytical suites as provided in Annex B Analysis.
    - .4 Provide analytical reports of results.

<u>1.5 LOCATIONS OF JOB SITE</u>	.1	Area covered under this specification include the following location:  .1 HMC Dockyard:  .1 Bldg D211 WFE shop.
<u>1.6 PRE-JOB MEETING</u>	.1	Immediately upon receipt of award of Standing Offer Agreement, the successful Contractor will contact the Engineer to arrange a pre-job meeting prior to commencement of any work.
<u>1.7 CONTRACTOR QUALIFICATIONS</u>	.1	The Contractor must satisfy the Engineer that he / she has adequate and qualified staff to perform the service expected. This includes all service calls within an acceptable time period and having adequate parts on hand to meet the requirements of the job.
	.2	Whenever the Contractor uses sub-contractors, they too must perform to and comply with all requirements of this Standing Offer Agreement.
<u>1.8 WORKMANSHIP</u>	.1	Workmanship must be the best quality executed by workers experienced and skilled in the respective duties for which they are employed.
	.2	Do not employ any unfit person or anyone unskilled in their required duties. The Engineer reserves the right to require the dismissal from the site, workers deemed incompetent, careless, insubordinate or otherwise objectionable.
	.3	Decisions as to the quality or fitness of workmanship in cases of dispute rest solely with the Engineer whose decision is final.
	.4	The Contractor will employ a competent and experienced supervisor with the authority to speak on his behalf on day-to-day routine matters.
<u>1.9 NORMAL WORKING HOURS</u>	.1	Normal working hours will be 0730 to 1600 hours, Monday to Friday. Any work carried out other than normal working hours must be authorized by the Engineer.

1.10 CONTRACTOR'S USE OF SITE

- .1 Contractor will be briefed on use of site by the Engineer.
- .2 Do not unreasonably encumber site with materials or equipment.
- .3 Move stored products or equipment which interferes with operations of Engineer or other Contractors.
- .4 The Engineer will brief the Contractor on access to restricted areas.

1.11 PARKING

- .1 In limited areas, a parking space will be made available on site for Contractor vehicles to drop off equipment and supplies. Maintain and administer this space as directed.
- .2 The Contractor may have to pay for parking at the following location:
  - .1 HMC Dockyard - Halifax, NS.

1.12 CODES AND STANDARDS

- .1 Comply with all federal, provincial and municipal regulations and by-laws. In any case of conflict or discrepancy, the more stringent requirements will apply.
- .2 Meet or exceed requirements of Standing Offer documents, specified standards, codes and referenced documents.

PART 2 - PRODUCTS

2.1 NOT USED

- .1 Not used.

PART 3 - EXECUTION

3.1 NOT USED

- .1 Not used.

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 01 11 00 General Instructions.
- .2 Section 01 29 83.02 Annex B Analysis.

1.2 GENERAL INFORMATION

- .1 RPOS(H) WFE technicians at CFB Halifax conduct a routine sampling program to monitor compliance with applicable federal, provincial, and / or municipal regulations and guidelines. The routine sampling program involves the collection of potable water, oily wastewater treatment plant effluent, treated sewage, and swimming pool water samples on a regular basis.
- .2 The majority of the routine sampling program analytical requirement will be for bacteriological analysis requiring analysis to be conducted within 24 hours of sample collection.
- .3 DND reserves the right to not use this Standing Offer Agreement for all samples. The Laboratory is not guaranteed to receive any samples from DND under this Standing Offer Agreement, however it is probable that limited samples will be submitted for analysis.

1.3 WORK REQUIREMENTS

- .1 The Work to be done by the Laboratory under this Standing Offer Agreement must include the furnishing of all management, supervision, labour, materials, equipment, tools, supplies, overhead, sample disposal, disbursements and other incidentals necessary for the satisfactory performance and completion of all work as specified.
- .2 The Laboratory will be responsible for providing the labour and resources to fulfill the terms of the Standing Offer Agreement, including the necessary qualified personnel, office / lab space, reference documents, data processing supplies, computers and equipment to interpret the data and produce the analytical reports.
- .3 The Laboratory must consider the costs associated with shipping and receiving sample materials to / from CFB Halifax. The Laboratory must also consider that shipments may contain only one sample at a time.
- .4 A lab contact, which will be the primary point of contact, must be identified for this Standing Offer Agreement.



1.3 WORK REQUIREMENTS  
(Cont'd)

- .4 (Cont'd)
- .1 The lab contact must be geographically located in Atlantic Canada, to ensure adequate turnaround time (TAT) for samples sent from Halifax.
  - .2 The lab contact must also ensure chain of custody integrity for shipments upon arrival at the drop off location. Use the form provided to indicate the Laboratory contact name, address, phone number; location of the Laboratory or drop off location (if applicable).

1.4 ANALYSIS CATEGORIES

- .1 DND may request but is not necessarily limited to the following analysis categories:
- .1 microbiology of water, effluent and sewage;
  - .2 toxicology of water, effluent and sewage;
  - .3 physical chemistry of water; and
  - .4 potable water analysis.
- .2 Required analytical suites are provided in Annex B Analysis. Other parameters may be requested from DND.

1.5 SAMPLES DROP OFF  
LOCATION

- .1 The Laboratory or Laboratory assigned drop off location must be within 50 kilometers of the WFE shop located at Maritime Forces Atlantic (MARLANT) HMC Dockyard building D211 in Halifax, NS, as shown on the drawing provided in Annex A.
- .2 DND will ship the samples to the drop off location or Laboratory.
- .3 The drop off location must be equipped to receive samples and assess their integrity by conducting at a minimum:
- .1 documenting the condition of the samples;
  - .2 measuring the storage container temperature; and
  - .3 providing a statement of the sample integrity in writing prior to DND handing over the samples.
    - .1 Should the sample integrity be unacceptable / questionable, DND must be notified immediately. At that time, DND has the right to submit or not submit the samples.

1.5 SAMPLES DROP OFF  
LOCATION  
(Cont'd)

- .3 (Cont'd)
- .3 (Cont'd)
- .4 Under this Standing Offer Agreement, DND may drop off samples on any weekday between 0730 and 1700 hours.

1.6 DIFFERENT LOCATION  
FOR DROP OFF AND  
LABORATORY  
LABORATORY

- .1 In the event the samples are not analyzed / processed at the drop off location, it will be the Laboratory's responsibility to ensure the sample integrity is maintained during storage and subsequent shipping to the Laboratory.
- .2 Upon sample arrival (if location is different from drop off location), the Laboratory will be responsible to assess the integrity of the samples by conducting at a minimum:
  - .1 documenting the condition of the samples;
  - .2 measuring the storage container temperature; and
  - .3 providing a statement of the sample integrity in writing prior to DND handing over the samples.
    - .1 Should the sample integrity be unacceptable / questionable as a result of the shipping of the samples from the drop off location to the Laboratory, the Laboratory will be responsible for all DND costs associated with the collection of replacement samples.
- .3 For samples requiring analysis within 24 hours, the drop off location must be able to deliver samples to the Laboratory within the required timeframe to meet / exceed the analytical sample holding time.

1.7 CHAIN OF CUSTODY  
FORMS  
FORMS

- .1 Chain of custody forms must be provided by the Laboratory. The chain of custody forms must be customized to clearly identify the following:
  - .1 Company name: DND RPOS(H)
  - .2 DND Project Name: RPOS(H) Routine Sampling Program
  - .3 DND Project #: W010C-18-0134
  - .4 Contact Name: WFE Supervisor
  - .5 Address:

1.7 CHAIN OF CUSTODY  
FORMS

- .1 (Cont'd)
  - Real Property Operations Section - Halifax (RPOS(H))
  - Maritime Forces Atlantic
  - PO Box 99000 Stn Forces, Bldg WL7
  - Halifax, NS B3K 5X5
- .6 Phone: 902-427-3797
- .7 Cell: 902-802-3595
- .8 Fax: 902-427-0212
- .2 Sample identification must be reported exactly as presented on the chain of custody form submitted by the lab to DND or representative. If sample container labels do not correspond with the chain of custody form, DND or representative must be contacted to verify correct identification.

1.8 OWNERSHIP

- .1 All reports and supplements will remain the property of DND. Laboratory reports may be duplicated or released by DND without the permission of the Laboratory.
- .2 DND will not assume any responsibility for either the accuracy or completeness of any information provided. The Laboratory will be responsible to ensure the validity of said information, as well as to obtain any additional information vital to the completion of work.
- .3 The Laboratory must ensure that no member of their own team, including all sub-consultants and specialists, grants interviews with the media regarding this project. Both formal and informal interviews will only be permitted when authorized and coordinated in advance by DND.

1.9 COST SUBMISSION

- .1 The number of samples may vary. A cost proposal, consisting of unit rates, including timeline for completion and submission of analytical results, will be requested for each commission under this Standing Offer Agreement at the time of the call-up that will include specific type and number of analysis. However, typical samples will be for potable water, effluent, sewage and swimming pool water.
- .2 Should the drop off location be different from the Laboratory location:

1.9 COST SUBMISSION  
(Cont'd)

- .2 (Cont'd)
- .1 All costs associated with the storage and subsequent shipment of samples from the drop off location to the Laboratory will be included in the analytical costs as part of the bid submission.
- .3 Progress claims must be submitted to the DND representative for each commission and be equal by unit-to-unit rates established and submitted by the Laboratory.
- .1 Sample disposal costs must be included in the overall price per sample in the progress claim.
- .2 Progress claims must include one unit cost only per parameter suite as included in the Unit Price Table (e.g. cost for metals, cost for VOCs, cost for PAHs).
- .4 DND will not reimburse the Laboratory for costs or associated work where:
- .1 samples have been compromised while in the Laboratory's custody;
- .2 samples have not been analyzed within the specified Laboratory holding time; and /or
- .3 samples were not analyzed to the specified /correct minimum detection limit.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 The Laboratory must provide DND with sterile sample containers, labels, coolers, freezer packs, preservatives, shipping containers, and any additional materials required for sample shipment at the time of sample submission. This is required since there is limited storage space at the WFE shop, therefore when samples are submitted, the WFE technicians are provided with the replacements of the previously mentioned sample shipment materials.
- .1 In addition, if requested, the Laboratory will be expected to deliver the previously mentioned sample shipment materials to the WFE shop, location shown in Annex A.

### PART 3 - EXECUTION

#### 3.1 EXECUTION OF WORK

- .1 The Laboratory must comply with all applicable federal, provincial and municipal legislation during this Standing Offer Agreement.
- .2 The Laboratory must carry out the work without interruption until complete and accepted by DND.
- .3 An appropriate Laboratory quality assurance / quality control program and health and safety program must be established by the Laboratory prior to analysis. Material Safety Data Sheets (MSDS) will be submitted by the lab to DND or representative for any hazardous materials supplied to DND as required for appropriate sample collection and analysis (e.g. preservatives).

#### 3.2 ANALYTICAL RESULTS

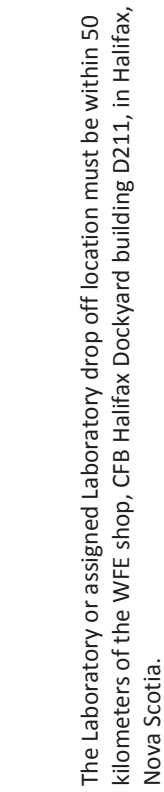
- .1 The Laboratory must report the analytical results, as well as compare and list the analytical results to the DND specified regulatory criteria as indicated in Annex B Analysis. Other regulatory criteria may be requested from DND.
- .2 For analytical results that are below the Laboratory reportable detection limits (RDL), the Laboratory is required to report the results showing the actual RDL value (e.g. < RDL Value) rather than just showing "not-detected(nd)".
- .3 The Laboratory must guarantee a 10-day turnaround time(TAT) for all parameters once samples have arrived at the Laboratory with the exception of the following:
  - .1 water (potable and swimming pool) bacteriological - 48-72 TAT;
  - .2 TPH fractionation - 14 days TAT; and
  - .3 dioxin and furans - 15 days TAT.

3.2 ANALYTICAL RESULTS  
(Cont'd)

- .4 Some samples may be required as rush analysis (e.g. 24-hour, 48-hour or 5 days TAT). The Laboratory are to provide the costs for routine analytical times, as well as for the rush analytical times. Samples will be analyzed with minimum detection limits equal to or below the most stringent of the Canadian Council of Ministers of the Environment (CCME), Canadian Environmental Quality Guidelines for Freshwater Aquatic Life, Canadian Environmental Quality Guidelines for Marine Aquatic Life, Health Canada's Canadian Drinking Water Quality Guidelines, and PIRI Risk Based Corrective Action (RBCA) Tier I latest version, and other applicable criteria. Also, for potable and swimming pool water media, the samples will be analyzed in accordance with the latest edition of "Standard Methods for Examining Water / Wastewater".
- .5 Analytical data units for water, effluent and sewage must be present in mg/L units, unless specified otherwise in the comparative regulatory criteria.
- .6 The Laboratory must provide the analytical results in hard copy, as well as digitally via e-mail. The result format will be in an approved DND digital excel spreadsheet, a signed Adobe Portable Document Format (PDF) and a signed original paper format to DND and / or a designated contact (located within the Atlantic provinces). The Laboratory analytical results must be presented in the order as shown in Annex B of the specification for each analytical suite and parameter. An electronic confirmation of receipt of samples for analysis, as well as a record of sample condition upon submission, is required.
- .1 E-mail analytical results to the following:
- Timothy.Henman@forces.gc.ca  
Darren.Pollock@forces.gc.ca  
Scott.Alberts@forces.gc.ca

3.3 EMERGENCY  
NOTIFICATION

- .1 If the Laboratory discovers conditions that pose an immediate significant threat to human health or the environment, the Laboratory must notify DND immediately.
- .2 Laboratory is required to immediately notify DND via telephone, e-mail and fax of any potable or swimming pool water bacteriological exceedances.



<p>The Laboratory or assigned Laboratory drop off location must be within 50 kilometers of the WFE shop, CFB Halifax Dockyard building D211, in Halifax, Nova Scotia.</p>	<p>Title: <b>WFE Shop Location</b></p>	
	<p>Date: <b>5 Dec 2017</b></p>	<p>Scale: <b>NTS</b></p>
	<p>Reference: <b>Map scanned from DND Maps</b></p>	
	<p>Project No.: <b>W010C-18-0134</b></p>	

## Part 1 – Analysis for Routine Sampling Program

<b>Media:</b> Potable Water  All analytical results are to be listed and compared to <b>Health Canada's Canadian Drinking Water Quality Guidelines</b> most recent version (HC CDWQG) unless otherwise indicated.	
<b>Analytical Package</b>	<b>Individual parameters within the package (as a minimum)</b>
<b>Full analytical suite of HC CDWQG including a gross alpha-beta scan but excluding radionuclide analysis</b>	This package is to include analysis for all HC CDWQG parameters including a gross alpha-beta scan but excluding radionuclide analysis.
<b>Radionuclides (Bq/L) checked</b>	As listed in the HC CDWQG
<b>Total Metals</b>	Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Manganese
<b>Analytical Package</b>	<b>Individual parameters within the package (as a minimum)</b>
<b>Total Metals (Cont'd)</b>	Magnesium Mercury



	Molybdenum Nickel Phosphorus Potassium Rubidium Selenium Silicon Silver Sodium Strontium Sulphur Tellurium Thallium Tin Titanium Uranium Vanadium Zinc
<b>General Chemistry (RCAP)</b>	Anion Sum Bicarbonate Alkalinity (calc. as CaCO3) Calculated TDS Carbonate Alkalinity (calc. as CaCO3) Cation Sum Colour Conductivity Dissolved Chloride Total Sulphate (SO4) Ferrous Iron Hardness (CaCO3) Ion Balance (% Difference) Langelier Index (@ 20C) Langelier Index (@ 4C)

Analytical Package	Individual parameters within the package (as a minimum)
<p><b>General Chemistry (RCAP) (Cont'd)</b></p>	<p>Nitrate Nitrate + Nitrite Nitrite (N) Nitrogen (Ammonia Nitrogen) Orthophosphate(P) pH Phosphorus Reactive Silica (SiO2) Sodium Total Alkalinity (Total as CaCO3) Total Dissolved Solids Total Organic Carbon Total Suspended Solids Turbidity Saturation pH (@ 20C) Saturation pH (@ 4C)</p>
<p><b>RCAP-MS Total Metals</b></p>	<p>Anion Sum Bicarbonate Alkalinity (calc. as CaCO3) Calculated TDS Carbonate Alkalinity (calc. as CaCO3) Cation Sum Colour Conductivity Dissolved Chloride Total Sulphate (SO4) Ferrous Iron Hardness (CaCO3) Ion Balance (% Difference) Langelier Index (@ 20C) Langelier Index (@ 4C) Nitrate Nitrate + Nitrite Nitrite (N)</p>

Analytical Package	Individual parameters within the package (as a minimum)
<p><b>RCAP-MS Total Metals (Cont'd)</b></p>	<p>Nitrogen (Ammonia Nitrogen) Orthophosphate (P) pH Phosphorus Reactive Silica (SiO2) Sodium Total Alkalinity (Total as CaCO3) Total Dissolved Solids Total Organic Carbon Total Suspended Solids Turbidity Saturation pH (@ 20C) Saturation pH (@ 4C)</p>
<p><b>Elements (ICP-MS)</b></p>	<p>Total Aluminum (Al) Total Antimony (Sb) Total Arsenic (As) Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Boron (B) Total Cadmium (Cd) Total Chromium (Cr) Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Lead (Pb) Total Manganese (Mn) Total Molybdenum (Mo) Total Nickel (Ni) Total Selenium (Se) Total Silver (Ag) Total Strontium (Sr)</p>

	Total Thallium (Tl)
<b>Analytical Package</b>	<b>Individual parameters within the package (as a minimum)</b>
<b>Elements (ICP-MS) (Cont'd)</b>	Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn)
<b>Elements (ICP-OES)</b>	Total Calcium (Ca) Total Magnesium (Mg) Total Phosphorus (P) Total Potassium (K) Total Sodium (Na)
<b>Volatile Organic Compounds</b>	Benzene Bromodichloromethane Bromoform Bromomethane Carbon Tetrachloride Chlorobenzene (Monochlorobenzene) Chloroethane Chloromethane Chloroform cis-1,2-Dichloroethene cis-1,3-Dichloropropene Dibromochloromethane 1,2 – Dibromoethane 1,2 – Dichlorobenzene 1,3 – Dichlorobenzene 1,4 – Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,1 – Dichloroethene 1,1 – Dichloroethylene 1,2-Dichloropropane

	Dichloromethane (Methylene Chloride) Ethylbenzene
<b>Analytical Package</b>	<b>Individual parameters within the package (as a minimum)</b>
<b>Volatile Organic Compounds(Cont'd)</b>	Total Xylene ( <u>do not report as o-xylene and mp-xylene</u> )
	Styrene
	1,1,2,2-Tetrachloroethane
	Tetrachloroethylene
	Toluene
	trans 1,2-Dichloroethene
	trans 1,3-Dichloropropene
	1,1,1-Trichloroethane
	Trichloroethylene (TCE)
	1,1,2-Trichloroethane
<b>Semi-Volatiles</b>	Trichlorofluoromethane
	Total Trihalomethanes (THMs)
	Vinyl Chloride
	Aldicarb
	Aldrin + Dieldrin
	Atrazine + Desthyl-atrazine
	Bendiocarb
	Benzo(a)pyrene
	Bromoxynil
	Carbaryl
<b>Semi-Volatiles</b>	Carbofuran
	Chlorpyrifos (Dursban)
	Cyanazine (Bladex)
	2,4-Dichlorophenoxyacetic acid (2,4-D)
	2,4-Dichlorophenol
	Diazinon
	Dicamba
	Diclofop-methyl
	Dimethoate
	Dinoseb

	Malathion Methoxychlor Metolachlor
<b>Analytical Package</b>	<b>Individual parameters within the package (as a minimum)</b>
<b>Semi-Volatiles (Cont'd)</b>	Metribuzin (Sensor) Parathion (Ethyl Parathion + Methyl Parathion) Pentachlorophenol Phorate Picloram Simazine Terbufos 2,3,4,6-Tetrachlorophenol 2,4,6-Trichlorophenol Trifluralin
<b>TPH / BTEX</b>	Benzene Toluene EthylBenzene Total Xylene ( <b>do not report as o-xylene and mp-xylene</b> ) Total Petroleum Hydrocarbons Modified Petroleum Hydrocarbons <b>Note:</b> Must be able to provide results comparable to the Atlantic PIRI Risked Based Corrective Action, most recent version, in addition to HC CDWQG.
<b>Pesticides</b>	Aldrin Alpha-BHC Alpha Chlordane Beta-BHC Delta-BHC Dieldrin DDT + Metabolites Endosulfan I Endosulfan II Endosulfan (Total)

	Endosulfan Sulfate Endrin
<b>Analytical Package</b>	<b>Individual parameters within the package (as a minimum)</b>
<b>Pesticides (Cont'd)</b>	Endrin Aldehyde
	Endrin Ketone
	Gamma-BHC
	Gamma Chlordane
	Heptachlor
	Heptachlor epoxide
	Hexachlorobenzene
	Lindane
	Methoxychlor
	Mirex
	Octachlorostyrene
	o,p-DDD
	o,p-DDE
	o,p-DDT
	p,p-DDD
	p,p,-DDE
	p,p-DDT
	Total Chlordane
	Toxaphene
<b>Diuron, Guthion, Temephos</b>	Diuron Guthion (Azinphos-methyl)
<b>Diquat/Paraquat</b>	Diquat Paraquat (as dichloride)
<b>Glycols</b>	Diethylene Glycol Ethylene Glycol Glycol (Total) Propylene Glycol

Analytical Package	Individual parameters within the package (as a minimum)
<b>Polycyclic Aromatic Hydrocarbons</b>	Acendphthylene
	Acendphthene
	Acridine
	Anthracene
	Benzo(a)anthracene
	Benzo(a)pyrene
	Benzo (b) fluoranthene
	Benzo(e)pyrene
	Benzo (k) fluoranthene
	Benzo (ghi) perylene
	Chrysene
	Dibenz(a,h)anthracene
	Fluoranthene
	Fluorene
	Indeno(1,2,3)pyrene
	Naphthalene
	Perylene
	Phenanthrene
	Pyrene,
	Quinoline
	1-Methylnaphthalene
	2-Methylnaphthalene
<b>Bacteriological</b>	Escherichia Coli
	Heterotrophic Plate Count
	Total Coliforms
<b>Individual Potable Water Analysis / Parameters / Packages</b>	
BOD (Biochemical Oxygen Demand)	
COD (Chemical Oxygen Demand)	
Cyanide	
Cyanobacterial toxins – microcystin-LR	



Individual Potable Water Analysis / Parameters / Packages (Cont'd)	
Formaldehyde	
Glyphosate	
Hexavalent Chromium	
Methylmercury	
MTBE	If requested, will be requested in conjunction with BTEX / TPH
Nitrioltriacetic Acid (NTA)	
PCB (Total)	
Phenol (individual)	
Sulphide (as H <sub>2</sub> S)	
TKN (Total Kjeldahl Nitrogen)	
Total Phenolics (aggregate)	
TPH Fractionation	If requested, will be requested in conjunction with BTEX / TPH
Trivalent Chromium	
Tributhyl Tin	
Total Chlorine	
Total Chloramines	

<b>Media:</b> Treated Sewage  All analytical results are to be listed and compared to the most recent criterion presented in Appendix E Table E.2 of the Atlantic Canada Wastewater Guidelines Manual for Collection, Treatment and Disposal, the most recent version. A copy of the manual can be found at:  <a href="http://www.gov.ns.ca/nse/water/docs/AtICanStdGuideSewage.pdf">http://www.gov.ns.ca/nse/water/docs/AtICanStdGuideSewage.pdf</a>	
Biochemical Oxygen Demand (BOD)	
Total Suspended Solids (SS)	
Total Coliforms	
Escherichia Coli	

<p><b>Media:</b> Swimming Pool Water</p> <p>All analytical results are to be listed and compared to both:</p> <p>.1 Department of Health Nova Scotia Operational Guidelines for Aquatic Facilities, Province of Nova Scotia, 2014 or the most recent version. A copy of this document can be obtained by contacting the Nova Scotia Environment and Labour. <a href="https://novascotia.ca/dhw/environmental/public-swimming-pools.asp">https://novascotia.ca/dhw/environmental/public-swimming-pools.asp</a></p> <p>.2 Guidelines for monitoring Public Drinking Water Supplies, Nova Scotia Environment and Labour, December 12, 2005 or the most recent version. A copy of the manual can be found at: <a href="http://www.gov.ns.ca/nse/water/docs/Guidelines_for_Monitoring_Public_Drinking_Water_Supplies.pdf">http://www.gov.ns.ca/nse/water/docs/Guidelines_for_Monitoring_Public_Drinking_Water_Supplies.pdf</a></p>	
Pseudomonas aeruginosa	
Staphylococcus aureus	
Total Coliforms	
Escherichia Coli	
Total Chlorine	

<p><b>Media:</b> Oily Wastewater Treatment Plant Effluent</p> <p>All analytical results are to be listed and compared to the Halifax Regional Municipality By-law – W-101. A copy of the by-law can be found at: <a href="http://www.halifax.ca/city-hall/legislation-by-laws/by-law-w-101">http://www.halifax.ca/city-hall/legislation-by-laws/by-law-w-101</a></p>	
Analytical Package	Individual parameters within the package (as a minimum)
TPH / BTEX	Benzene
	Toluene
	EthylBenzene
	Total Xylene ( <b>do not report as o-xylene and mp-xylene</b> )
	C6 - C10 (less BTEX) >C10-C21 Hydrocarbons >C21-<C32 Hydrocarbons

	Total Petroleum Hydrocarbons Modified Petroleum Hydrocarbons If requested, will be requested in conjunction with BTEX / TPH If requested, will be requested in conjunction with BTEX / TPH MOG (Mineral Oil and Grease) TOG (Total Oil and Grease)
<b>MTBE</b>	
<b>TPH Fractionation</b>	
<b>MOG + TOG</b>	

## Part 2 – Analysis for Emergency Sampling Program

<b>Media:</b> Potable Water  All analytical results are to be listed and compared to <b>Health Canada's Canadian Drinking Water Quality Guidelines</b> , most recent version (HC CDWQG) unless otherwise indicated.	
<b>Analytical Package</b>	<b>Individual parameters within the package (as a minimum)</b>
<b>Full analytical suite of HC CDWQG including a gross alpha-beta scan but excluding radionuclide analysis</b>	This package is to include analysis for all HC CDWQG parameters including a gross alpha-beta scan but excluding radionuclide analysis.
<b>Radionuclides (Bq/L) checked</b>	As listed in the HC CDWQG
<b>Total Metals</b>	Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt

	Copper Iron Lead Lithium Manganese
<b>Analytical Package</b>	<b>Individual parameters within the package (as a minimum)</b>
<b>Total metals(Cont'd)</b>	Magnesium Mercury Molybdenum Nickel Phosphorus Potassium Rubidium Selenium Silicon Silver Sodium Strontium Sulphur Tellurium Thallium Tin Titanium Uranium Vanadium Zinc
<b>General chemistry (RCAP)</b>	Anion Sum Bicarbonate Alkalinity (calc. as CaCO3) Calculated TDS Carbonate Alkalinity (calc. as CaCO3) Cation Sum Colour Conductivity Dissolved Chloride

	Total Sulphate (SO4) Ferrous Iron Hardness (CaCO3) Ion Balance (% Difference) Langelier Index (@ 20C) Langelier Index (@ 4C)
<b>Analytical Package</b>	<b>Individual parameters within the package (as a minimum)</b>
<b>General chemistry (RCAP) (Cont'd)</b>	Nitrate Nitrate + Nitrite Nitrite (N) Nitrogen (Ammonia Nitrogen) Orthophosphate(P) pH Phosphorus Reactive Silica (SiO2) Sodium Total Alkalinity (Total as CaCO3) Total Dissolved Solids Total Organic Carbon Total Suspended Solids Turbidity Saturation pH (@ 20C) Saturation pH (@ 4C)
<b>RCAP-MS Total Metals</b>	Anion Sum Bicarbonate Alkalinity (calc. as CaCO3) Calculated TDS Carbonate Alkalinity (calc. as CaCO3) Cation Sum Colour Conductivity Dissolved Chloride Total Sulphate (SO4) Ferrous Iron

	Hardness (CaCO <sub>3</sub> ) Ion Balance (% Difference) Langelier Index (@ 20C) Langelier Index (@ 4C) Nitrate Nitrate + Nitrite Nitrite (N)
<b>Analytical Package</b>	<b>Individual parameters within the package (as a minimum)</b>
<b>RCAP-MS Total Metals(Cont'd)</b>	Nitrogen (Ammonia Nitrogen) Orthophosphate (P) pH Phosphorus Reactive Silica (SiO <sub>2</sub> ) Sodium Total Alkalinity (Total as CaCO <sub>3</sub> ) Total Dissolved Solids Total Organic Carbon Total Suspended Solids Turbidity Saturation pH (@ 20C) Saturation pH (@ 4C)
<b>Elements (ICP-MS)</b>	Total Aluminum (Al) Total Antimony (Sb) Total Arsenic (As) Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Boron (B) Total Cadmium (Cd) Total Chromium (Cr) Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe)

	Total Lead (Pb) Total Manganese (Mn) Total Molybdenum (Mo) Total Nickel (Ni) Total Selenium (Se) Total Silver (Ag) Total Strontium (Sr) Total Thallium (Tl)
<b>Analytical Package</b>	<b>Individual parameters within the package (as a minimum)</b>
<b>Elements (ICP-MS) (Cont'd)</b>	Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn)
<b>Elements (ICP-OES)</b>	Total Calcium (Ca) Total Magnesium (Mg) Total Phosphorus (P) Total Potassium (K) Total Sodium (Na)
<b>Volatile Organic Compounds</b>	Benzene Bromodichloromethane Bromoform Bromomethane Carbon Tetrachloride Chlorobenzene (Monochlorobenzene) Chloroethane Chloromethane Chloroform cis-1,2-Dichloroethene cis-1,3-Dichloropropene Dibromochloromethane 1,2 – Dibromoethane 1,2 – Dichlorobenzene

	1,3 – Dichlorobenzene 1,4 – Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,1 – Dichloroethene 1,1 – Dichloroethylene 1,2-Dichloropropane Dichloromethane (Methylene Chloride) Ethylbenzene
<b>Analytical Package</b>	<b>Individual parameters within the package (as a minimum)</b>
<b>Volatile Organic Compounds (Cont'd)</b>	Total Xylene ( <u>do not report as o-xylene and mp-xylene</u> ) Styrene 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene trans 1,2-Dichloroethene trans 1,3-Dichloropropene 1,1,1-Trichloroethane Trichloroethylene (TCE) 1,1,2-Trichloroethane Trichlorofluoromethane Total Trihalomethanes (THMs) Vinyl Chloride
<b>Semi-volatiles</b>	Aldicarb Aldrin + Dieldrin Atrazine + Desthyl-atrazine Bendiocarb Benzo(a)pyrene Bromoxynil Carbaryl Carbofuran Chlorpyrifos (Dursban) Cyanazine (Bladex) 2,4-Dichlorophenoxyacetic acid (2,4-D)



	2,4-Dichlorophenol Diazinon Dicamba Diclofop-methyl Dimethoate Dinoseb Malathion Methoxychlor Metolachlor
<b>Analytical Package</b>	<b>Individual parameters within the package (as a minimum)</b>
<b>Semi-volatiles (Cont'd)</b>	Metribuzin (Sencor) Parathion (Ethyl Parathion + Methyl Parathion) Pentachlorophenol Phorate Picloram Simazine Terbufos 2,3,4,6-Tetrachlorophenol 2,4,6-Trichlorophenol Trifluralin
<b>TPH / BTEX</b>	Benzene Toluene EthylBenzene Total Xylene ( <b>do not report as o-xylene and mp-xylene</b> ) Total Petroleum Hydrocarbons Modified Petroleum Hydrocarbons <b>Note:</b> Must be able to provide results comparable to the Atlantic PIRI Risked Based Corrective Action, most recent version, in addition to HC CDWQGG.
<b>Pesticides</b>	Aldrin Alpha-BHC Alpha Chlordane Beta-BHC

	Delta-BHC Dieldrin DDT + Metabolites Endosulfan I Endosulfan II Endosulfan (Total) Endosulfan Sulfate Endrin
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Analytical Package	Individual parameters within the package (as a minimum)
<b>Pesticides (Cont'd)</b>	Endrin Aldehyde
	Endrin Ketone
	Gamma-BHC
	Gamma Chlordane
	Heptachlor
	Heptachlor epoxide
	Hexachlorobenzene
	Lindane
	Methoxychlor
	Mirex
	Octachlorostyrene
	o,p-DDD
	o,p-DDE
	o,p-DDT
	p,p-DDD
	p,p,-DDE
	p,p-DDT
	Total Chlordane
	Toxaphene
<b>Diuron, Guthion, Temephos</b>	Diuron
	Guthion (Azinphos-methyl)
<b>Diquat / Paraquat</b>	Diquat
	Paraquat (as dichloride)

<b>Glycols</b>	Diethylene Glycol Ethylene Glycol Glycol (Total) Propylene Glycol
<b>Analytical Package</b>	<b>Individual parameters within the package (as a minimum)</b>
<b>Polycyclic Aromatic Hydrocarbons</b>	Acenaphthylene
	Acenaphthene
	Acridine
	Anthracene
	Benzo(a)anthracene
	Benzo(a)pyrene
	Benzo (b) fluoranthene
	Benzo(e)pyrene
	Benzo (k) fluoranthene
	Benzo (ghi) perylene
	Chrysene
	Dibenz(a,h)anthracene
	Fluoranthene
	Fluorene
	Indeno(1,2,3) pyrene
	Naphthalene
	Perylene
<b>Bacteriological</b>	Phenanthrene
	Pyrene,
	Quinoline
	1-Methylnaphthalene
<b>Individual Potable Water Analysis / Parameters / Packages</b>	2-Methylnaphthalene
	Escherichia Coli
	Heterotrophic Plate Count
<b>BOD (Biochemical Oxygen Demand)</b>	Total Coliforms

COD (Chemical Oxygen Demand)	
Cyanide	
Cyanobacterial toxins – microcystin-LR	
<b>Individual Potable Water Analysis / Parameters / Packages (Cont'd)</b>	
Formaldehyde	
Glyphosate	
Hexavalent Chromium	
Methylmercury	
MTBE	If requested, will be requested in conjunction with BTEX / TPH
Nitriiotriacetic Acid (NTA)	
PCB (Total)	
Phenol (individual)	
Sulphide (as H2S)	
TKN (Total Kjeldahl Nitrogen)	
Total Phenolics (aggregate)	
TPH Fractionation	If requested, will be requested in conjunction with BTEX / TPH
Trivalent Chromium	
Tributhyl Tin	
Total Chlorine	
Total Chloramines	

**Media:** Treated Sewage

All analytical results are to be listed and compared to the most recent criterion presented in Appendix E Table E.2 of the Atlantic Canada Wastewater Guidelines Manual for Collection, Treatment and Disposal, the most recent version. A copy of the manual can be found at:

<http://www.gov.ns.ca/nse/water/docs/AtICanStdGuideSewage.pdf>

Biochemical Oxygen Demand (BOD)	
Total Suspended Solids (SS)	
Total Coliforms	
Escherichia Coli	

<b>Media:</b> Swimming Pool Water	
All analytical results are to be listed and compared to both:	
.1 Department of Health Nova Scotia Operational Guidelines for Aquatic Facilities, Province of Nova Scotia, 2014 or the most recent version. A copy of this document can be obtained by contacting the Nova Scotia Environment and Labour. <a href="https://novascotia.ca/dhw/environmental/public-swimming-pools.asp">https://novascotia.ca/dhw/environmental/public-swimming-pools.asp</a>	
.2 Guidelines for monitoring Public Drinking Water Supplies, Nova Scotia Environment and Labour, December 12, 2005 or the most recent version. A copy of the manual can be found at: <a href="http://www.gov.ns.ca/nse/water/docs/Guidelines_for_Monitoring_Public_Drinking_Water_Supplies.pdf">http://www.gov.ns.ca/nse/water/docs/Guidelines_for_Monitoring_Public_Drinking_Water_Supplies.pdf</a>	
Pseudomonas aeruginosa	
Staphylococcus aureus	
Total Coliforms	
Escherichia Coli	
Total Chlorine	

<b>Media:</b> Oily Wastewater Treatment Plant Effluent	
All analytical results are to be listed and compared to the Halifax Regional Municipality By-law – W-101. A copy of the by-law can be found at: <a href="http://www.halifax.ca/city-hall/legislation-by-laws/by-law-w-101">http://www.halifax.ca/city-hall/legislation-by-laws/by-law-w-101</a>	
<b>Analytical Package</b>	<b>Individual parameters within the package (as a minimum)</b>
<b>TPH / BTEX</b>	Benzene
	Toluene
	EthylBenzene
	Total Xylene ( <b>do not report as o-xylene and mp-xylene</b> )
	C6 - C10 (less BTEX) >C10-C21 Hydrocarbons >C21-<C32 Hydrocarbons

	Total Petroleum Hydrocarbons
	Modified Petroleum Hydrocarbons
<b>MTBE</b>	If requested, will be requested in conjunction with BTEX / TPH
<b>TPH Fractionation</b>	If requested, will be requested in conjunction with BTEX / TPH
<b>MOG + TOG</b>	MOG (Mineral Oil and Grease) TOG (Total Oil and Grease)

<b>Media:</b> Soil, Sediment, Effluent, and Non-Potable Water	
<b>Analytical Package</b>	<b>Individual parameters within the package (as a minimum)</b>
<b>Metals</b>	Aluminum
	Antimony
	Arsenic
	Barium
	Beryllium
	Bismuth
	Boron
	Cadmium
	Calcium
	Chromium
	Cobalt
	Copper
	Iron
	Lead
	Lithium
	Manganese
	Magnesium
	Mercury
	Molybdenum
	Nickel
	Phosphorus
	Potassium
	Rubidium

	<p>Selenium</p> <p>Silicon</p> <p>Silver</p> <p>Sodium</p> <p>Strontium</p> <p>Sulphur</p>
<b>Analytical Package</b>	<b>Individual parameters within the package (as a minimum)</b>
<b>Metals (Cont'd)</b>	<p>Tellurium</p> <p>Thallium</p> <p>Tin</p> <p>Titanium</p> <p>Uranium</p> <p>Vanadium</p> <p>Zinc</p>
<b>Volatile Organic Compounds</b>	<p>Benzene</p> <p>Bromodichloromethane</p> <p>Bromoform</p> <p>Carbon Tetrachloride</p> <p>Chlorobenzene</p> <p>Chloroform</p> <p>cis-1,3-Dichloropropene</p> <p>Dibromochloromethane</p> <p>1,1 – Dichloroethene</p> <p>1,2 – Dichloroethene</p> <p>Dichloromethane</p> <p>Ethylbenzene</p> <p>1,1,2,2-Tetrachloroethane</p> <p>Tetrachloroethylene</p> <p>1,1,1-Trichloroethane</p> <p>Trichloroethene</p> <p>Toluene</p> <p>trans 1,2-Dichloroethene</p> <p>trans 1,3-Dichloropropene</p> <p>1,1,2-Trichloroethane</p>

	Trichlorofluoromethane 1,2 – Dichloropropane Bromomethane Chloroethane Chloromethane 1,2 – Dichlorobenzene 1,3 – Dichlorobenzene
<b>Analytical Package</b>	<b>Individual parameters within the package (as a minimum)</b>
<b>Volatile Organic Compounds (Cont'd)</b>	1,4 – Dichlorobenzene 1,1 – Dichloroethene 1,2 – Dibromoethane cis – 1,2 Dichloroethene mp – Xylenes Vinyl Chloride o – Xylene Styrene
<b>TPH / BTEX</b>	Total Petroleum Hydrocarbons Benzene Toluene EthylBenzene Total Xylene ( <b>do not report as o-xylene and mp-xylene</b> ) <b>Note:</b> Must be able to provide results comparable to the Atlantic PIRI Risked Based Corrective Action, most recent version, in addition to HC CDWQG.
<b>TPH Fractionation</b>	
<b>PHC</b>	Petroleum Hydrocarbons – Canada Wide Standards Method
<b>Polycyclic Aromatic Hydrocarbons</b>	Acendphthylene Acendphthene Acridine Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo (b) fluoranthene Benzo(e)pyrene



	Benzo (k) fluoranthene Benzo (ghi) perylene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3) pyrene
<b>Analytical Package</b>	<b>Individual parameters within the package (as a minimum)</b>
<b>Polycyclic Aromatic Hydrocarbons (Cont'd)</b>	Napthalene Perylene Phenanthrene Pyrene, Quinoline 1-Methylnaphthalene 2-Methylnaphthalene
<b>Pesticides</b>	Aldrin Alpha-BHC Alpha Chlordane Beta-BHC Delta-BHC Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin Aldehyde Endrin Ketone Gamma-BHC Gamma Chlordane Heptachlor Heptachlor epoxide Hexachlorobenzene Methoxychlor

	Mirex o,p-DDD o,p-DDE o,p-DDT p,p-DDD p,p,-DDE p,p-DDT
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Analytical Package	Individual parameters within the package (as a minimum)
PCB (Total)	
Glycol (Total)	
Ethylene Glycol	
Propylene Glycol	
Diethylene Glycol	
MTBE	If requested, will be requested in conjunction with BTEX / TPH.
Hexavalent Chromium	
Trivalent Chromium	
Methylmercury	
Radiological Parameters	gross-alpha gross beta
Cyanide	
Tributhyl Tin	
Phenol (individual)	
Total Phenolics (aggregate)	
MOG (Mineral, Oil and Grease)	
TOG (Total Oil and Grease)	

<b>Media:</b> Specific to Soil	
Grain Size Analyses	Size range: 12.5, 9.5, 4.75, 2, 1, ½, ¼, 1/8, 1/16, 1/32, 1/64, 1/128, 1/256, 1/512 (all less than, mm); Gravel; Sand; Silt; Clay
Petroleum Degrading Bacteria	
Fraction Organic Carbon	

Total Organic Carbon	
pH	
Nitrate	
Nitrate as N	
Nitrate and Nitrite	

<b>Media:</b> Specific to Non-Potable Water	
<b>General Chemistry</b>	pH
	Colour
	Turbidity
	Total Suspended Solids
	Total Dissolved Solids
	Alkalinity (as CaCO <sub>3</sub> )
	Bicarbonate (as CaCO <sub>3</sub> )
	Carbonate (as CaCO <sub>3</sub> )
	Ammonia
	Nitrate
	Nitrate as N
	Nitrate and Nitrite
	Total Organic Carbon
	Conductivity
	Chloride
	Reactive Silica (as SiO <sub>2</sub> )
BOD (Biochemical Oxygen Demand) COD (Chemical Oxygen Demand) Fecal Coliform TKN (Total Kjeldahl Nitrogen)	Ferrous Iron
	Sulphate
	Sodium
	Phosphorous

<b>Media:</b> Hazardous Materials (e.g. Building Materials)	
Asbestos	
Lead Paint	
Lead Paint Leachate	
Mercury in Paint	
Mercury Leachate	
PCB in Paint	

<b>Media:</b> Air	
Asbestos	Including fibre count
Mould	Species
TPH/BTEX	
NOx	
VOC in Air	
Total Dust	Respirable + Non-respirable
Particulate	Total Particulate Matter (TPM)
Dioxin and Furans	
Petroleum Hydrocarbon Mass Fractions	
Petroleum Hydrocarbon Molecular Weight Determination	

<b>Media:</b> Oil	
Product Characterization	Viscosity, Density, Fraction, Resemblance
Viscosity	
Resemblance	e.g. jet fuel, diesel, avgas, etc.
Density	
Fraction	
PCBs	
Lead	

Media: Tissue (Flora and Fauna)	
E Coli	
Hexavalent Chromium	
Methylmercury	
PCB (Total)	
Metals	Aluminum
	Antimony
	Arsenic
	Barium
	Beryllium
	Bismuth
	Boron
	Cadmium
	Calcium
	Chromium
	Cobalt
	Copper
	Iron
	Lead
	Lithium
	Manganese
	Magnesium
	Mercury
	Molybdenum
	Nickel
	Phosphorus
	Potassium
	Rubidium
	Selenium
	Silicon
	Silver
	Sulphur

<b>Metals (Cont'd)</b>	Tellurium
	Thallium
	Tin
	Titanium
	Uranium
	Vanadium
	Zinc
	Aldrin
	Alpha-BHC
	Alpha Chlordane
<b>Pesticides</b>	Beta-BHC
	Delta-BHC
	Dieldrin
	Endosulfan I
	Endosulfan II
	Endosulfan Sulfate
	Endrin
	Endrin Aldehyde
	Endrin Ketone
	Gamma-BHC
	Gamma Chlordane
	Heptachlor
	Heptachlor epoxide
	Hexachlorobenzene
	Methoxychlor
	Mirex
	o,p-DDD
	o,p-DDE
	o,p-DDT
	p,p-DDD
	p,p,-DDE
	p,p-DDT
<b>TEH</b>	Total Extractable Hydrocarbons

<p><b>Polycyclic Aromatic Hydrocarbons</b></p>	<p>Acendphthylene Acendphthene Acridine Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo (b) fluoranthene Benzo(e)pyrene Benzo (k) fluoranthene Benzo (ghi) perylene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3) pyrene Naphthalene Perylene Phenanthrene Pyrene, Quinoline 1-Methylnaphthalene 2-Methylnaphthalene</p>
<p><b>Volatile Organic Compounds</b></p>	<p>Benzene Bromodichloromethane Bromoform Carbon Tetrachloride Chlorobenzene Chloroform cis-1,3-Dichloropropene Dibromochloromethane 1,1 – Dichloroethene 1,2 – Dichloroethene Dichloromethane</p>

	Ethylbenzene 1,1,2,2-Tetrachloroethane
<b>Volatile Organic Compounds (Cont'd)</b>	Tetrachloroethylene
	1,1,1-Trichloroethane
	Trichloroethene
	Toluene
	trans 1,2-Dichloroethene
	trans 1,3-Dichloropropene
	1,1,2-Trichloroethane
	Trichlorofluoromethane
	1,2 – Dichloropropane
	Bromomethane
	Chloroethane
	Chloromethane
	1,2 – Dichlorobenzene
	1,3 – Dichlorobenzene
	1,4 – Dichlorobenzene
	1,1 – Dichloroethene
	1,2 – Dibromoethane
	cis – 1,2 Dichloroethene
	mp – Xylenes
	Vinyl Chloride
	o – Xylene
	Styrene