

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
PWGSC/TPSGC Acquisitions
1045 Main Street
1st Floor, Lobby C
Unit 108
Moncton, NB E1C 1H1
Bid Fax: (506) 851-6759

SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION

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

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

Comments - Commentaires

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

Issuing Office - Bureau de distribution
NB / PEI Division - Moncton Acquisitions Office
1045 Main Street
1st Floor, Lobby C
Unit 108
Moncton, NB E1C 1H1

Title - Sujet Water & Sewage Analysis	
Solicitation No. - N° de l'invitation W0105-14E043/A	Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client W0105-14E043	Date 2014-01-20
GETS Reference No. - N° de référence de SEAG PW-\$MCT-014-4772	
File No. - N° de dossier MCT-3-36074 (014)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-03-03	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: MacDonald, Charline	Buyer Id - Id de l'acheteur mct014
Telephone No. - N° de téléphone (506) 851-6067 ()	FAX No. - N° de FAX (506) 851-6759
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
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)	
Signature	Date

Solicitation No. - N° de l'invitation

W0105-14E043/A

Client Ref. No. - N° de réf. du client

W0105-14E043

Amd. No. - N° de la modif.

001

File No. - N° du dossier

MCT-3-36074

Buyer ID - Id de l'acheteur

mct014

CCC No./N° CCC - FMS No/ N° VME

Title: Water & Sewage Analysis

Solicitation Amendment No. 001

This solicitation is hereby amended to:

- (1) **INSERT** the Annex "A" and Annex "B" attached herein as they were omitted in error in the original Solicitation documents.

If your bid has already been forwarded and you wish to revise same, this revision should be sent either in a sealed envelope and mailed to the above address or by facsimile (506) 851-6759 and reach the undersigned before the appropriate closing date. The solicitation number and the closing date are to be shown on the outside of the sealed envelope or on the facsimile transmission.

All other terms and conditions of the solicitation document remain unchanged.

All enquiries concerning this amendment are to be forwarded to:

Name: Charline MacDonald

Telephone No.: (506) 851-6067

Facsimile No: (506) 851-6759



Annex "A"



**DEPARTMENT OF NATIONAL DEFENCE
5 ENGINEER SERVICES SQUADRON
5 ENGINEER SERVICES UNIT
CFB GAGETOWN
SPECIFICATION**

SERVICE CONTRACT

WATER AND SEWAGE ANALYSIS
01 APRIL 2014 TO 31 MARCH 2015
WITH AN OPTION TO RENEW TWO
(ONE YEAR PERIODS)


Designed by


Fire Inspector


Project O


Engineering O

PF No:

Job No: L-G2/ 9900/1613

Date: 2013-06-03

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PART 1 - GENERAL

- 1.1 Description of Work .1 Work covered under this Service Contract includes the provision of all following testing and analysis in a timely manner:
- .1 Potable water testing and analysis for Total Coliforms including E. Coli, Heterotrophic Plate Count (HPC), Organic and Inorganic parameters as per Annex A, Pseudomonas, General Chemistry, and Trihalomethanes (THM);
 - .2 Sewage water testing and analysis for Digester Nutrient, Digester Metals, Fecal Coliforms, Benzene, Toluene, Ethylbenzene and Xylene (BTEX), Biological Oxygen Demand (BOD5), Suspended Substance (SS), Total Kjeldahl Nitrogen (TKN), Total Phosphorus (TP), Ammonia (NH3), Total Suspended Solids (TSS), Total Petroleum Hydrocarbons (TPH), Glycol, Metals in any liquid or a solid sewage sludge, Phenols and Chemical Oxygen Demand (COD);
 - .3 Storm water testing and analysis for BTEX, TPH, Total Suspended Solids (TSS), General Chemistry and Metals.
- .2 Samples will be collected for the Engineer by the specific facility Supervisor and their personnel. Any additional mixing and addition of chemicals will be the responsibility of the laboratory.
- .3 The Contractor will be responsible to provide, at no additional charge to the submitted bid prices, all pre-labelled sample containers of all types for specific tests as required to the facility Supervisors listed in item 1.2 in a timely manner for sample collection. The contractor will also provide, at no additional charge, all preservatives, filters, syringes, ice packs, various blanks IE trip blank, sample blank and coolers necessary for the proper collection and transport of all samples to the laboratory. It will be the Contractor's responsibility to ensure that all samples are transported to the laboratory, at no additional charge, in a acceptable state for the required testing and analysis.
- .4 With regard to Potable Water samples, in the event that an analysis confirms a concentration of any contaminant above

1.1 Description of .4
Work
(Cont'd)

- (Cont'd)
- allowable limits as specified by the Guidelines for Canadian Drinking Water Quality (Sixth Edition), the Contractor will report such immediately regardless of the time of day or the day of the week to: the Water Plant Supervisor, or their representative, at (506) 422-2000 ext 2810, and the Utilities Officer, or their representative, at (506) 422-2000 ext 2942. The telephone call will be followed up by an emailed copy and a mailed original of the report. If all tests and analysis prove acceptable according to the Guidelines for Canadian Drinking Water Quality (Sixth Edition), the Contractor will email a copy of the report to the Water Treatment Plant Supervisor. This email address will be provided to the Contractor after the award of this Service Contract. The report will list all parameter levels determined by the analysis in a column of data adjacent to a column of the acceptable levels established by the Guidelines for Canadian Drinking Water Quality (Sixth Edition).
- .5 With regard to Sewage and Storm Water samples, the Contractor will email the results of all testing and analysis to the Waste Water Treatment Plant Supervisor if samples are Sewage Water or to the Utilities Officer if the samples are Storm Water. These email addresses will be provided to the Contractor after the award of this Service Contract.
- .6 The maximum elapsed time between collection and the start of the analysis of Potable Water samples for microbiological (coliform bacteria presence) is twenty-four (24) hours. Due to the time it takes to complete the sampling by the Facilities' personnel on and around the Base, samples may be eight (8) hours old when they become available for pick up and transport to the Laboratory by the Contractor. Therefore, there will be sixteen (16) hours available to the Contractor for pick up, delivery, filtering, addition of any chemicals and the start of the analysis of samples. The Contractor must ensure that all microbiological testing and analysis can be accomplished in this time-frame.
- .7 Due to the public safety aspect of this Service Contract, any testing or analysis that cannot be completed by the Contractor's laboratory and therefore must be

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- 1.1 Description of Work (Cont'd) .7 (Cont'd)
sub-contracted to another laboratory must be sub-contracted to a laboratory with accreditation by SCC or CAEAL for the testing parameter in question. This proof of accreditation must be provided to the Engineer prior to award of this Service Contract. All communication and points of contact must be with the successful bidder's laboratory whether testing is sub-contracted or not. No requirements of the specification i.e. the immediate communication to those listed in 1.4.1 of unsafe drinking water, shall be passed on as the responsibility of a third party laboratory when sub-contracting testing and analysis by the Contractor's Laboratory and by the Contractor's direct employees.
Note:In regard to transportation, travel time to and from the contractors base of operation will be included in the rates provided.
- 1.2 Duration of Contract .1 This Service Contract will extend from 01 April 2014 to 31 March 2015 with two, one-year options to renew.
- 1.3 References .1 Guidelines for Canadian Drinking Water Quality (Sixth Edition);
.2 International Standards Organization (ISO) 17025 (2005).
- 1.4 Qualifications .1 The Contractor's laboratory must be accredited to ISO 17025 (General Requirements for the Competence of Testing and Calibration Laboratories 2005) by either The Standards Council of Canada (SCC), or The Canadian Association of Environmental Analytical Laboratories Inc.(CAEAL). Accreditation by any other body must be approved by the Engineer prior to award of this Service Contract.
.2 Proof of accreditation with a copy of the laboratory's Scope of Accreditation must be provided to the Engineer prior to award of this Service Contract . Proof of accreditation with a copy of the laboratory's and any and all sub-contracted laboratories; Scopes of Accreditation must be provided to the Engineer prior to award of this Service Contract. These
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1.4 Qualifications .2
(Cont'd)

- (Cont'd)
Scopes of Accreditation must include all parameters outlined in Annex A and in 1.4.1.
- .3 Prior to award of this Service Contract, the Contractor shall provide proof to PWGSC of liability insurance coverage of no less than two million dollars, (\$2,000,000).
- .4 Contractor must be registered with the Workplace Health, Safety and Compensation Commission (WHSCC) of New Brunswick (or if the winning contractor is from outside New Brunswick, that provinces equivalent is acceptable) and provide proof of such to PWGSC prior to award of this Service Contract.

1.5 Engineer .1

- The Engineer as defined and stated in this specification will be the Commanding Officer 5 Engineer Services Unit or a designated representative. The address of the Engineer is:
- Contracts Office
5 Engineering Services Unit
Building B18
CFB/ASU Gagetown
PO BOX 17000 Station Forces
Oromocto, N.B. E2V 4J5
Tel.(506) 422-2000 Ext. 2677
Fax (506) 422-1248

1.6 Documents .1
Required

- Maintain at the laboratory one copy each of the following:
- .1 Specifications; and
.2 Addenda.

1.7 Call-Up .1
Procedures

- Upon award of this Service Contract, the Contractor will advise the Engineer of the telephone number and location at which they or their personnel may be contacted at any time. This will include a Laboratory Supervisor toward whom all procedural questions and concerns shall be directed, as well as telephone numbers for the Contractor's personnel that will pick-up, deliver and
-

1.7 Call-Up
Procedures
(Cont'd)

- .1 (Cont'd)
analyze the samples for regular and emergency testing and analysis.
- .2 The Contractor will provide service daily including Saturdays, Sundays and holidays. A request for service under this Service Contract shall consist of a faxed letter from the Engineer's Representative. A request for service letter shall be sent to the Contractor at the beginning of each month during the life of this Service Contract describing the testing and analysis to be done with a work order and requisition number. These numbers must be on the Contractor's invoice as well as a detailed accounting of all tests performed and copies of all Chains of Custody. The Contractor will invoice at the end of each month for all testing completed during that month.
- .3 The Contractor will not refuse any call for service requested by the Engineer. In the event that emergency testing and analysis is required due to a failed sample, the Contractor will not make additional charges over and above the submitted bid price in Annex B, item 2. Emergency testing is testing required due to a failed sample due to coliforms and will be a priority for the contractor's laboratory.

1.8 Contractor's Use
of Site

- .1 Work site access will be as directed by the Engineer.
- .2 Movement around the site is subject to restrictions laid down by the Engineer.
- .3 Do not unreasonably encumber the site with materials or equipment.

1.9 Codes and
Standards

- .1 Perform work to and enforce safety measures in accordance with the Canadian Labour Code Part II and the New Brunswick Occupational Health and Safety Act.
 - .2 Contractor must be registered with WorkSafeNB and provide proof of such to PWGSC prior to award of contract. Should the winning contractor be from outside of New Brunswick,
-

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- 1.9 Codes and Standards (Cont'd)
- .2 (Cont'd) the provinces equivalent of WorkSafeNB will be acceptable.
- .3 Comply with the requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage and disposal of hazardous materials; and labelling and provision of Material Safety Data Sheets acceptable to Human Resources and Skills Development Canada and Health Canada.
- .4 Work to meet or exceed requirements of specified standards, codes and referenced documents. In event of conflict between any provisions of above authorities, the most stringent provision will apply.
- 1.10 Quantities and Basis of Payment
- .1 The Contractor will submit prices for the following in accordance with the Specification (See Annex B). Such prices will include expenses, profit, sample bottles, filters, labels, ice packs, cooler, required preservatives, disposal of samples and transportation cost from A-13 (Water Treatment Plant) and N-05 (Sewage Treatment Plant) to the laboratory:
- .1 Unit price per water sample for total Coliforms including E. Coli, **(730 samples)**;
- .2 Unit price for an Emergency Water Sample for Total Coliforms including E. Coli -Emergency Testing, **(10 samples)**;
- .3 Unit price per water sample for Heterotrophic Plate Count (HPC), **(60 samples)**;
- .4 Unit price per water sample for Pseudomonas, **(120 samples)**;
- .5 Unit price per water sample for Organic Parameters, **(20 samples)**;
- .6 Unit price per water sample for Inorganic Parameters, **(24 samples)**;
- .7 Unit price per water sample for General Chemistry, **(10 samples)**;
- .8 Unit price per water sample for Zinc, Iron and Phosphate, **(52 samples)**. Also supply and measure nine corrosion coupons (carbon, steel, lead and copper) on semi annual basis and provide a written report complete with recommendations for all findings.
- .9 Unit price per sample for storm water for Benzene, Toluene, Ethylbenzene and Xylene (BTEX), **(15 samples)**;
-

1.10 Quantities and .1
Basis of Payment
(Cont'd)

- (Cont'd)
- .10 Unit price per sample for storm water for total Petroleum Hydrocarbons (TPH), **(15 samples)**;
 - .11 Unit price per sewage water sample for Total Suspended Solids (TSS) on any type of liquid, **(15 samples)**;
 - .12 Unit price per sample of storm water for General Chemistry, **(36 samples)**;
 - .13 Unit price per sample of storm water for Metals, **(36 samples)**;
 - .14 Unit price per sewage water sample for Digester Nutrient, **(10 samples)**;
 - .15 Unit price per sewage water sample for Digester Metals, **(10 samples)**;
 - .16 Unit price per sewage water sample for Fecal Coliforms, **(5 samples)**;
 - .17 Unit price per sewage water sample for Benzene, Toluene, Ethylbenzene and Xylene (BTEX), **(15 samples)**;
 - .18 Unit price per sewage sample for Biological Oxygen Demand (BOD), **(16 samples)**;
 - .19 Unit price per sewage sample for Suspended Substance (SS), **(16 samples)**;
 - .20 Unit price per sewage sample for Total Kieidahl Nitrogen (TKN); **(16 samples)**;
 - .21 Unit price per sewage water sample for Total Phosphorous (TP) **(16 samples)**;
 - .22 Unit price per sewage water sample Ammonia (NH), **(16 samples)**;
 - .23 Unit price per sewage water sample for Total Suspended Solids (TSS) on any type of liquid, **(1 sample)**;
 - .24 Unit price per sewage water sample for Total Petroleum Hydrocarbons (TPH), **(1 sample)**;
 - .25 Unit price per sewage water sample for Metals on any type of liquid, **(1 sample)**;
 - .26 Unit price per sample of Glycol on any type of liquid, **(1 sample)**;
 - .27 Unit price per sewage water sample of Phenols in water, **(1 sample)**;
 - .28 Unit price per sewage water sample of Chemical Oxygen Demand (COD) in water, **(10 samples)**;
 - .29 Unit price for Metals in a solid sewage sludge, **(2 samples)**;
 - .30 Unit price for Mercury in a liquid or solid sewage sludge, **(2 samples)**;
 - .31 Unit price per water sample for Trihalomethanes (THM), **(10 samples)**;
 - .32 Unit price for Karl Fisher Water Test, **(100 samples)**; and
 - .33 Unit price for ISO Cleanliness test, **(100 samples)**.

1.10 Quantities and .1
Basis of Payment
(Cont'd)

(Cont'd)
.34 Daily Cost of Pick-Up Service (Monday,
Wednesday and Friday),
(Estimated Quantity 156).

- .2 The quantities listed are the minimum number of samples to be tested in one (1) year and may increase depending on test results and each facilities' requirements

1.11 Invoices .1

At the end of each month, the original and one copy of the invoice covering all charges for each Chain of Custody and individual testing and analysis will be mailed to the Engineer at the mailing address in 1.4.1.

- .2 Invoices will detail location of sample, date of sample, description of analysis performed, the work order, contract and requisition numbers as given on the request for service letter sent to the contractor at the beginning of each month by the Engineer or his representative.

- .3 Copies of the Chains of Custody will accompany the the invoice when mailed to the Engineer.

1.12 Contractor Passes .1

All Contractor employees will have in their possession at all times while on the Base an authorized Contractor Pass while employed on DND property. Such passes will be produced on demand to the Military Police, Commissionaires, Security Guards and persons in authority.

- .2 The Contractor will complete an application form for contractor passes for each individual. The Contractor will accompany the employee to the Military Police Identification Section building F-19 for the issuance of pass.

- .3 Photocopies of passes are to be provided to the Engineer.

- .4 The Contractor will ensure Contractor passes are recovered from employees who cease to be employed on DND property. Such passes shall be returned to the Military Police Identification Section by the Contractor.

1.13 Security
Clearance

- .1 The Contractor shall maintain an up-to-date roster of all employees involved in this contract including managers, supervisors, tradespersons, drivers and labourers. This roster must be made available to the Engineer upon request.
- .2 The Contractor shall provide proof of the information contained within the roster to the Engineer upon request. The Engineer reserves the right to have removed from the site those personnel who do not meet security requirements as laid down by the Military Police Section.

PART 1 - GENERAL

- 1.1 References .1 Canada Labour Code, Part II, Canada Occupational Safety and Health Regulations.
- .2 Province of New Brunswick Occupational Health and Safety Act, 1991.
- 1.2 Regulatory Requirements .1 Do work in accordance with the safety measures of the National Building Code of Canada 2010, the Canada Labour Code Part II, the New Brunswick Occupational Health and Safety Act and WorkSafeNB provided that in any case of conflict or discrepancy the more stringent requirements shall apply.
- 1.3 Responsibility .1 Be responsible for health and safety of persons on site, safety of property on site and for protection of persons adjacent to site and environment to extent that they may be affected by conduct of Work.
- .2 Comply with and enforce compliance by employees with safety requirements of Contract Documents, applicable federal, provincial, territorial and local statutes, regulations, and ordinances, and with site-specific Health and Safety Plan.
- 1.4 Unforeseen Hazards .1 Should any unforeseen or peculiar safety-related factor, hazard, or condition become evident during performance of work, the Contractor must have procedures in place to facilitate the Employee's Right to Refuse Work in accordance with Acts and Regulations of New Brunswick. The Contractor is to advise the Engineer verbally and in writing of any employee who exercises this right.
- 1.5 Correction of Non-Compliance .1 Immediately address health and safety non-compliance issues identified by authority having jurisdiction or by Engineer.
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- 1.5 Correction of Non-Compliance (Cont'd)
- .2 Provide Engineer with written report of action taken to correct non-compliance of health and safety issues identified.
 - .3 Engineer may stop Work if non-compliance of health and safety regulations is not corrected.
- 1.6 Work Stoppage
- .1 Give precedence to safety and health of public and site personnel and protection of environment over cost and schedule considerations for work.

PART 1 - GENERAL

- 1.1 Reporting Fires .1 Know location of nearest fire alarm box and telephone, including emergency phone number.
- .2 Report immediately all fire incidents to Fire Department as follows:
.1 Activate the nearest fire alarm box;or
.2 telephone 911.
- .3 When reporting fire by telephone, give location of fire, name or number of building and be prepared to verify the location.
- 1.2 Interior and Exterior Fire Protection and Alarm Systems .1 Fire protection and alarm system will not be:
.1 obstructed;
.2 shut-off; and
.3 left inactive at end of working day or shift without authorization from Fire Chief.
- .2 Fire hydrants, standpipes and hose systems will not be used for other than fire-fighting purposes unless authorized by Fire Chief.
- 1.3 Fire Extinguishers .1 Supply fire extinguishers, as scaled by Fire Chief, necessary to protect work in progress and contractor's physical plant on site.
- 1.4 Blockage of Roadways .1 Advise Fire Chief of any work that would impede fire apparatus response. This includes violation of minimum overhead clearance, as prescribed by Fire Chief, erecting of barricades and digging of trenches.
- 1.5 Smoking Precautions .1 Observe smoking regulations at all times.
- 1.6 Rubbish and Waste Materials .1 Rubbish and waste materials are to be kept to a minimum.
- .2 Burning of rubbish is prohibited.
-

1.6 Rubbish and
Waste Materials
(Cont'd)

- .3 Removal:
 - .1 Remove all rubbish from work site at end of work day or shift or as directed.
- .4 Storage:
 - .1 Store oily waste in approved receptacles to ensure maximum cleanliness and safety.
 - .2 Deposit greasy or oily rags and materials subject to spontaneous combustion in approved receptacles and remove.

1.7 Flammable and
Combustible Liquids

- .1 Handling, storage and use of flammable and combustible liquids are to be governed by the current National Fire Code of Canada.
- .2 Flammable and combustible liquids such as gasoline, kerosene and naphtha will be kept for ready use in quantities not exceeding 45 litres provided they are stored in approved safety cans bearing Underwriters' Laboratory of Canada or Factory Mutual seal of approval. Storage of quantities of flammable and combustible liquids exceeding 45 litres for work purposes requires permission of Fire Chief.
- .3 Transfer of flammable and combustible liquids is prohibited within buildings or jetties.
- .4 Transfer of flammable and combustible liquids will not be carried out in vicinity of open flames or any type of heat-producing devices.
- .5 Flammable liquids having a flash point below 38° C such as naphtha or gasoline will not be used as solvents or cleaning agents.
- .6 Flammable and combustible waste liquids, for disposal, will be stored in approved containers located in a safe ventilated area. Quantities are to be kept to a minimum and Fire Department is to be notified when disposal is required.

1.8 Hazardous
Substances

- .1 Work entailing use of toxic or hazardous materials, chemicals and/or explosives, or otherwise creating hazard to life, safety or
-

1.8 Hazardous
Substances
(Cont'd)

- .1 (Cont'd)
health, will be in accordance with National
Fire Code of Canada.
- .2 Obtain from Fire Chief a "Hot Work" permit
for work involving welding, burning or use of
blow torches and salamanders in buildings or
facilities.
- .3 When Work is carried out in dangerous or
hazardous areas involving use of heat, provide
fire watchers equipped with sufficient fire
extinguishers. Determination of dangerous or
hazardous areas along with level of protection
necessary for Fire Watch is at discretion of
the Fire Chief. Contractors are responsible
for providing fire watch service for work on a
scale established and in conjunction with Fire
Chief at pre-work conference.
- .4 Where flammable liquids, such as lacquers or
urethanes are to be used, proper ventilation
will be assured and all sources of ignition
are to be eliminated. Fire Chief is to be
informed prior to and at cessation of such
work.

1.9 Questions
and/or
Clarification

- .1 Direct any questions or clarification on Fire
Safety in addition to above requirements to
Fire Chief through the Engineer.

1.10 Fire
Inspection

- .1 Site inspections by Fire Chief will be
coordinated through Engineer.
- .2 Allow Fire Chief unrestricted access to work
site.
- .3 Co-operate with Fire Chief during routine
fire safety inspection of work site.
- .4 Immediately remedy all unsafe fire situations
observed by Fire Chief.

PART 1 - GENERAL

- 1.1 General .1 Contractor will take all reasonable steps to ensure that they and their employees have complied with all pertinent legislation and have protected the environment.
- 1.2 Fires .1 Fires and burning of rubbish on site not permitted.
- 1.3 Disposal of Wastes .1 Do not bury rubbish and waste materials on site unless approved by Engineer.
.2 Do not dispose of waste or volatile materials, such as mineral spirits, oil or paint thinner into waterways, storm or sanitary sewers.
- 1.4 Spill Protection .1 The Contractor must have adequate clean up materials for any potential hazardous materials used in the completion of the work (ie. Foams, fuels, oils, lubricants, etc).

Annex A

Analysis Parameters

General Chemistry
Sodium
Potassium
Calcium
Magnesium
Iron
Manganese
Copper
Zinc
Ammonia (as N)
Ph (units)
Alkalinity (as CaCO ₃)
Chloride
Fluoride
Sulfate
Nitrate + Nitrite (as N)
Nitrate (as N)
o-Phosphate (as P)
r-Silica (as SiO ₂)
Total Organic Carbon
Turbidity (NTU)
Conductivity (µS/cm)
Calculated Parameters
Bicarbonate as CaCO ₃
Carbonate as CaCO ₃
Hydroxide as CaCO ₃
Cation Sum (meq/L)
Anion Sum (meq/L)
% Difference
Theoretical Conductivity
Hardness mg/L (as CaCO ₃)
Ion Sum (mg/L)
Saturation pH (5°C)
Langeller Index pH (5°C)

Metals
Aluminium
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Mercury
Molybdenum
Nickel
Potassium
Rubidium
Selenium
Silver
Sodium
Strontium
Tellurium
Thallium
Tin
Uranium
Vanadium
Zinc

Inorganic Chemistry
Aluminum
Antimony
Arsenic
Barium
Boron
Cadmium
Copper
Chromium
Floride
Iron
Lead
Manganese
Mercury
Nitrate
Radon
Selenium
Thallium
Turbidity
Uranium

Organic Chemistry
Benzene
Benzo(a)Pyrene
Bromodichloromethane
Bromoform
Carbon Tetrachloride
Chloroform
Dibromochloromethane
1,2-Dichlorobenzene
1,4-Dichlorobenzene
1,2-Dichloroethane
Dichloromethane
Ethybenzene
Pentachlorophenol
Tetrachloroethylene
Toluene
Trichloroethylene
Vinyl Chloride
Xylenes
Total Trihalomethanes - TTHM
Haloacetic Acids - HAA5

Annex "B"
 Basis of Payment

Potable Water						
Item	Description	Qty	Unit Price Year 1	Unit Price Year 2	Unit Price Year 3	Total
1	Unit Price per Water Sample for Total Coliforms including E.Coli	730				
2	Unit Price per Water Sample for Total Coliforms including E.Coli - Emergency Testings	10				
3	Unit Price per Water Sample for Heterotrophic Plate Count (HPC)	60				
4	Unit price per Water Sample for Pseudomonas	120				
5	Unit Price per Water Sample for Organic Parameters	20				
6	Unit Price per Water Sample for Inorganic Parameters	24				
7	Unit Price per Water Sample for General Chemistry	10				
8	Unit price per water sample for Zinc, Iron and Phosphate. Also supply and measure nine corrosion coupons (carbon, steel, lead and copper) on semi annual basis and provide a written report complete with recommendations for all findings.	52				

Storm Water						
Item	Description	Qty	Unit Price Year 1	Unit Price Year 2	Unit Price Year 3	Total
9	Unit Price per Sample for Storm Water for Benzene Toluene, Ethylbenzene and Xylene (BTEX)	15				

Annex "B"
Basis of Payment

Annex B
National Defence
Job#L-G2-9900/1613
CFB Gagetown, NB

10	Unit Price per Sample for Storm Water For Total Petroleum Hydrocarbons (TPH)	15				
11	Unit Price per Sewage Water Sample for Total Suspended Solids (TSS) on any type of liquid	15				
12	Unit Price per Sample of Storm Water for General Chemistry	36				
13	Unit Price per Sample of Storm Water for Metals	36				

Sewage Water						
Item	Description	Qty	Unit Price Year 1	Unit Price Year 2	Unit Price Year 3	Total
14	Unit Price per Sewage Water Sample for Digester Nutrient	10				
15	Unit Price per Sewage Water Sample for Digester Metals	10				
16	Unit Price per Sewage Water Sample for Fecal Coliforms	5				
17	Unit Price per Sewage Sample for Benzene Toluene Ethylbenzene and Xylene (BTEX)	15				
18	Unit Price per Sewage Water Sample for Biological Oxygen Demand (BOD ₅)	16				
19	Unit Price per Sewage Water Sample for Suspended Substance (SS)	16				
20	Unit Price per Sewage Water Sample for Total Kjeldahl Nitrogen (TKN)	16				
21	Unit Price per Sewage Water Sample for Total Phosphorus (TP)	16				
22	Unit Price per Sewage Water Sample Ammonia (NH ₃)	16				
23	Unit Price per Sewage Water Sample for Total Suspended Solids (TSS) on any type of liquid	1				

**Annex "B"
Basis of Payment**

Annex B
National Defence
Job#L-G2-9900/1613
CFB Gagetown, NB

24	Unit Price per Sewage Water Sample for Total Petroleum Hydrocarbons (TPH)	1				
25	Unit Price per Sewage Water Sample for Metals on any type of Liquid	1				
26	Unit Price per Sample of Glycol on any type of liquid	1				
27	Unit Price per Sewage Water Sample for Phenols in Water	1				
28	Unit Price per Sewage Water Sample for Chemical Oxygen Demand (COD) in Water	10				
29	Unit Price for Metals in a Solid Sewage Sludge	2				
30	Unit Price for Mercury in a liquid or Solid Sewage Sludge	2				
31	Unit price per water sample for Trihalomethanes (THM)	10				

Fuel Tank Testing

32	Unit price for Karl Fisher Water Test	100				
33	Unit price for ISO Cleanliness Test	100				

Item	Description	Estimated Quantity	Daily Cost Year 1	Daily Cost Year 2	Daily Cost Year 3	Total
Daily Pick-Up Service (Monday, Wednesday, Friday)						
34	Daily Cost of Pick-Up Services	156				