



**THE CITY OF WINNIPEG**

# **REQUEST FOR PROPOSAL**

**RFP NO. 931-2015**

**PROVISION OF LABORATORY TESTING SERVICES**

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### **Appendix 1**

## **PART B - BIDDING PROCEDURES**

### **B1. CONTRACT TITLE**

B1.1 PROVISION OF LABORATORY TESTING SERVICES

### **B2. SUBMISSION DEADLINE**

B2.1 The Submission Deadline is 12:00 noon Winnipeg time, April 27, 2016.

B2.2 Proposals determined by the Manager of Materials to have been received later than the Submission Deadline will not be accepted and will be returned upon request.

B2.3 The Contract Administrator or the Manager of Materials may extend the Submission Deadline by issuing an addendum at any time prior to the time and date specified in B2.1.

### **B3. ENQUIRIES**

B3.1 All enquiries shall be directed to the Contract Administrator identified in D4.1.

B3.2 If the Proponent finds errors, discrepancies or omissions in the Request for Proposal, or is unsure of the meaning or intent of any provision therein, the Proponent shall promptly notify the Contract Administrator of the error, discrepancy or omission at least five (5) Business Days prior to the Submission Deadline.

B3.3 If the Proponent is unsure of the meaning or intent of any provision therein, the Proponent should request clarification as to the meaning or intent prior to the Submission Deadline.

B3.4 Responses to enquiries which, in the sole judgment of the Contract Administrator, require a correction to or a clarification of the Request for Proposal will be provided by the Contract Administrator to all Proponents by issuing an addendum.

B3.5 Responses to enquiries which, in the sole judgment of the Contract Administrator, do not require a correction to or a clarification of the Request for Proposal will be provided by the Contract Administrator only to the Proponent who made the enquiry.

B3.6 All correspondence or contact by Proponents with the City in respect of this RFP must be directly and only with the Contract Administrator. Failure to restrict correspondence and contact to the Contract Administrator may result in the rejection of the Proponents Proposal Submission.

B3.7 The Proponent shall not be entitled to rely on any response or interpretation received pursuant to B3 unless that response or interpretation is provided by the Contract Administrator in writing.

### **B4. CONFIDENTIALITY**

B4.1 Information provided to a Proponent by the City or acquired by a Proponent by way of further enquiries or through investigation is confidential. Such information shall not be used or disclosed in any way without the prior written authorization of the Contract Administrator. The use and disclosure of the confidential information shall not apply to information which:

- (a) was known to the Proponent before receipt hereof; or
- (b) becomes publicly known other than through the Proponent; or
- (c) is disclosed pursuant to the requirements of a governmental authority or judicial order.

B4.2 The Proponent shall not make any statement of fact or opinion regarding any aspect of the Bid Opportunity to the media or any member of the public without the prior written authorization of the Contract Administrator.

## **B5. ADDENDA**

- B5.1 The Contract Administrator may, at any time prior to the Submission Deadline, issue addenda correcting errors, discrepancies or omissions in the Request for Proposal, or clarifying the meaning or intent of any provision therein.
- B5.2 The Contract Administrator will issue each addendum at least two (2) Business Days prior to the Submission Deadline, or provide at least two (2) Business Days by extending the Submission Deadline.
- B5.2.1 Addenda will be available on the Bid Opportunities page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/bidopp.asp>
- B5.2.2 The Proponent is responsible for ensuring that he/she has received all addenda and is advised to check the Materials Management Division website for addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.
- B5.3 The Proponent shall acknowledge receipt of each addendum in Paragraph 9 of Form A: Proposal. Failure to acknowledge receipt of an addendum may render a Proposal non-responsive.

## **B6. SUBSTITUTES**

- B6.1 The Work is based on the Plant, Materials and methods specified in the Request for Proposal.
- B6.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.
- B6.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least five (5) Business Days prior to the Submission Deadline.
- B6.4 The Proponent shall ensure that any and all requests for approval of a substitute:
- (a) provide sufficient information and details to enable the Contract Administrator to determine the acceptability of the Plant, Material or method as either an approved equal or alternative;
  - (b) identify any and all changes required in the applicable Work, and all changes to any other Work, which would become necessary to accommodate the substitute;
  - (c) identify any anticipated cost or time savings that may be associated with the substitute;
  - (d) certify that, in the case of a request for approval as an approved equal, the substitute will fully perform the functions called for by the general design, be of equal or superior substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the Contract;
  - (e) certify that, in the case of a request for approval as an approved alternative, the substitute will adequately perform the functions called for by the general design, be similar in substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the Contract.
- B6.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his/her sole discretion grant approval for the use of a substitute as an "approved equal" or as an "approved alternative", or may refuse to grant approval of the substitute.
- B6.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, to the Proponent who requested approval of the substitute.
- B6.6.1 The Contract Administrator will issue an Addendum, disclosing the approved materials, equipment, methods and products to all potential Proponents. The Proponent requesting

and obtaining the approval of a substitute shall be responsible for disseminating information regarding the approval to any person or persons he/she wishes to inform.

- B6.7 If the Contract Administrator approves a substitute as an “approved equal”, any Proponent may use the approved equal in place of the specified item.
- B6.8 If the Contract Administrator approves a substitute as an “approved alternative”, any Proponent bidding that approved alternative may base his/her Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B20.
- B6.9 No later claim by the Contractor for an addition to the Total Bid Price because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.

## **B7. PROPOSAL SUBMISSION**

- B7.1 The Proposal shall consist of the following components:
- (a) Form A: Proposal; and
  - (b) Form B: Prices.
- B7.2 The Proposal should also consist of the following components:
- (a) Experience of Proponent and Subcontractors (Section C) in accordance with B10;
  - (b) Details of Service the Proponent and Subcontractors provides (Section D), in accordance with B11; and
  - (c) Details of the Capacity and Ability to provide Services (Section E) in accordance with B12;
- B7.3 Further to B7.1 all components of the Proposal shall be fully completed or provided in the order indicated, and submitted by the Proponent no later than the Submission Deadline, with all required entries made clearly and completely, to constitute a responsive Proposal.
- B7.4 Further to B7.2, all components of the Proposal should be fully completed or provided in the order indicated, and submitted by the Proponent no later than the Submission Deadline, with all required entries made clearly and completely, to constitute a responsive Proposal.
- B7.5 Proponents should submit one (1) unbound 8.5” x 11” original (marked “original”) including drawings and six (6) copies (copies can be in any size format) for sections identified in B7.1 and B7.2.
- B7.6 Proposal format, including type of binding, number of pages, size of pages and, font, etc., will not be regulated, except that the Proposal should contain a table of contents, page numbering and should be in the Sections identified above. Proponents are encouraged to use their creativity to submit a Proposal which provides the requested information for evaluation and other information which illustrates the strength of their team.
- B7.7 Proponents are advised that inclusion of terms and conditions inconsistent with the Request for Proposal, will be evaluated in accordance with B20.1.
- B7.8 The Proposal shall be submitted enclosed and sealed in an envelope/package clearly marked with the RFP number and the Proponent's name and address.
- B7.9 Proposals submitted by facsimile transmission (fax) or internet electronic mail (e-mail) will not be accepted.
- B7.10 Proposals shall be submitted to:
- The City of Winnipeg  
Corporate Finance Department  
Materials Management Division  
185 King Street, Main Floor

Winnipeg MB R3B 1J1

- B7.11 Any cost or expense incurred by the Proponent that is associated with the preparation of the Proposal shall be borne solely by the Proponent.

**B8. PROPOSAL**

- B8.1 The Proponent shall complete Form A: Proposal, making all required entries.

- B8.2 Paragraph 2 of Form A: Proposal shall be completed in accordance with the following requirements:

- (a) if the Proponent is a sole proprietor carrying on business in his/her own name, his/her name shall be inserted;
- (b) if the Proponent is a partnership, the full name of the partnership shall be inserted;
- (c) if the Proponent is a corporation, the full name of the corporation shall be inserted;
- (d) if the Proponent is carrying on business under a name other than his/her own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.

- B8.2.1 If a Proposal is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B8.2.

- B8.3 In Paragraph 3 of Form A: Proposal, the Proponent shall identify a contact person who is authorized to represent the Proponent for purposes of the Proposal.

- B8.4 Paragraph 11 of Form A: Proposal shall be signed in accordance with the following requirements:

- (a) if the Proponent is a sole proprietor carrying on business in his/her own name, it shall be signed by the Proponent;
- (b) if the Proponent is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
- (c) if the Proponent is a corporation, it shall be signed by its duly authorized officer or officers and the corporate seal, if the corporation has one, should be affixed;
- (d) if the Proponent is carrying on business under a name other than his/her own, it shall be signed by the registered owner of the business name, or by the registered owner's authorized officials if the owner is a partnership or a corporation.

- B8.4.1 The name and official capacity of all individuals signing Form A: Proposal should be printed below such signatures.

- B8.5 If a Proposal is submitted jointly by two or more persons, the word "Proponent" shall mean each and all such persons, and the undertakings, covenants and obligations of such joint Proponents in the Proposal and the Contract, when awarded, shall be both joint and several.

**B9. PRICES**

- B9.1 The Proponent shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.

- B9.1.1 Notwithstanding C11.1.3, prices on Form B: Prices shall not include the Goods and Services Tax (GST) or Manitoba Retail Sales Tax (MRST, also known as PST), which shall be extra where applicable.

- B9.2 Form B Prices shall contain all fees associated with the testing or the sample including but not limited to sample disposal and sample preparation fee.

- B9.3 The quantities listed on Form B: Prices are to be considered approximate only. The City will use said quantities for the purpose of comparing Proposals.

- B9.4 The quantities for which payment will be made to the Contractor are to be determined by the Work actually performed and completed by the Contractor, to be measured as specified in the applicable Specifications.
- B9.5 Payments to Non-Resident Contractors are subject to Non-Resident Withholding Tax pursuant to the Income Tax Act (Canada).

**B10. EXPERIENCE OF PROPONENT AND SUBCONTRACTORS (SECTION C)**

- B10.1 Proposals should include:
- (a) Details demonstrating the history and experience of the Proponent and Subcontractors in providing the services requested relevant to the scope of work in D2 on up to three projects of similar complexity, scope volume and value in the following areas;
    - (i) Biological Analysis and/or
    - (ii) Chemical Analysis.
- B10.2 For each project listed in B10.1(a), the Proponent should submit:
- (a) description of the project;
  - (b) testing provided;
  - (c) number of tests and average turn-around times
  - (d) details about what was done when an instrument and/or operational issue occurred;
  - (e) reference information (two current names with telephone numbers per project) as well as.
    - (i) Name of Client's Organization,
    - (ii) Email Address
    - (iii) These references may be contacted without prior notice to the proponent.
- B10.3 Further to B10.2(e) The City reserves the right to make inquiries within the Organization regarding the Proponents work performance and expertise.
- B10.3.1 Where applicable, information should be separated into Proponent and Subcontractor project listings.
- B10.4 The Proposal should include general firm profile information, including years in business, average volume of work, number of employees and other pertinent information for the Proponent and all Subcontractors.

**B11. DETAILS OF SERVICES THE PROPONENT AND SUBCONTRACTORS PROVIDES (SECTION D)**

- B11.1 Submit details on the following services provided relevant to the scope of work in D2
- (a) Location of where the work will be completed (address);
  - (b) Alternate location if an issue arises at the primary location
  - (c) Description of your sample kit (bottle ordering) procedure
  - (d) Description of your sample reception procedure
  - (e) Description of the method used for testing each parameter
  - (f) Description of your Quality Control / Quality Assurance Programs
  - (g) Description of your reporting procedure
  - (h) Type of services available for priority, rush and emergencies analysis upon request
- B11.2 Submit the experience and qualifications of the Key Personnel assigned to the services provided in the Contract. Include the following;
- (a) Names and roles of key personnel in providing the service required
  - (b) One page resumes for team members identified as key personnel

- (i) Including education, training, job title, years of experience and related work experience; location of work and responsibilities;

- B11.3 The Proposal should include information on the following key feature of the Proponent's operation;
- (a) Availability of customer customization for reporting, and testing
  - (b) Description of IT supporting system that the Proponent offers for data migration, collection, customer reporting, downloading and web viewing
  - (c) Description of your legal sampling ability

### **Contingency**

- B11.4 The proposal should include a detailed plan on how service levels will be maintained under this Contract if an instrument and/or operational issue occurs.
- (a) If the plan includes subcontracting, the Proposal should include a list of any Subcontractors that the Proponent may use over the course of the Contract and including the following information for them;
    - (i) Company Name, location, years of business and expertise
    - (ii) Which services they will be providing on behalf of the Proponent; and
    - (iii) Accreditation Information

## **B12. CAPACITY AND ABILITY TO PROVIDE THE SERVICE (SECTION E)**

- B12.1 The Proposal should include information which confirms the Proponent has the capacity and ability to provide the services relevant to the scope of work in D2 which includes;
- (a) Size of the facility and the layout
  - (b) Number of instruments and equipment used for each type of analysis performed
- B12.2 The proposal should include at least one (1) typical workflow for each type of testing under the scope of work the Proponent would provide in D2 This includes;
- (a) Information on the work flow from sample reception to result reporting
    - (i) Including details about capacity per run and Turn-around Times in accordance with E9;
- B12.3 The Proposal should complete the Accreditation Table for each parameter listed in PART E - with the following information related to the scope of work the Proponent would provide under D2; See **Appendix 1**
- (a) Accredited under PART E - Yes/No, and
  - (b) If No, Industry Accreditation Available Yes/No

### **Site Inspection**

- B12.4 A site inspection may be performed to confirm the information of the most advantageous offers received, in which a tour of the facility is performed live, or by high quality audio and video recording, or by internet (i.e. seminar, webinar, webex, etc.) of the laboratory in operation and performing analysis identical or similar in nature as proof of the information provide in B12

## **B13. DISCLOSURE**

- B13.1 Various Persons provided information or services with respect to this Work. In the City's opinion, this relationship or association does not create a conflict of interest because of this full disclosure. Where applicable, additional material available as a result of contact with these Persons is listed below.
- B13.2 The Persons are:

- (a) N/A

**B14. QUALIFICATION**

B14.1 The Proponent shall:

- (a) undertake to be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Proponent does not carry on business in Manitoba, in the jurisdiction where the Proponent does carry on business; and
- (b) be financially capable of carrying out the terms of the Contract; and
- (c) have all the necessary experience, capital, organization, and equipment to perform the Work in strict accordance with the terms and provisions of the Contract.

B14.2 The Proponent and any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:

- (a) be responsible and not be suspended, debarred or in default of any obligations to the City. A list of suspended or debarred individuals and companies is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/debar.stm>

B14.3 The Proponent and/or any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:

- (a) have successfully carried out work similar in nature, scope and value to the Work; and
- (b) be fully capable of performing the Work required to be in strict accordance with the terms and provisions of the Contract; and
- (c) have a written workplace safety and health program, if required, pursuant to The Workplace Safety and Health Act (Manitoba);

B14.4 The Proponent shall submit, within three (3) Business Days of a request by the Contract Administrator, proof satisfactory to the Contract Administrator of the qualifications of the Proponent and of any proposed Subcontractor.

B14.5 The Proponent shall provide, on the request of the Contract Administrator, full access to any of the Proponent's equipment and facilities to confirm, to the Contract Administrator's satisfaction, that the Proponent's equipment and facilities are adequate to perform the Work.

**B15. OPENING OF PROPOSALS AND RELEASE OF INFORMATION**

B15.1 Proposals will not be opened publicly.

B15.2 After award of Contract, the names of the Proponents and the Contract amount of the successful Proponent will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/>

B15.3 To the extent permitted, the City shall treat all Proposal Submissions as confidential, however the Proponent is advised that any information contained in any Proposal may be released if required by City policy or procedures, by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law.

B15.4 Following the award of Contract, a Proponent will be provided with information related to the evaluation of his/her submission upon written request to the Contract Administrator.

**B16. IRREVOCABLE OFFER**

B16.1 The Proposal(s) submitted by the Proponent shall be irrevocable for the time period specified in Paragraph 10 of Form A: Proposal.

B16.2 The acceptance by the City of any Proposal shall not release the Proposals of the other responsive Proponents and these Proponents shall be bound by their offers on such Work until a Contract for the Work has been duly executed and the performance security furnished as herein provided, but any offer shall be deemed to have lapsed unless accepted within the time period specified in Paragraph 10 of Form A: Proposal.

#### **B17. WITHDRAWAL OF OFFERS**

B17.1 A Proponent may withdraw his/her Proposal without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.

B17.1.1 Notwithstanding C22.5, the time and date of receipt of any notice withdrawing a Proposal shall be the time and date of receipt as determined by the Manager of Materials.

B17.1.2 The City will assume that any one of the contact persons named in Paragraph 3 of Form A: Proposal or the Proponent's authorized representatives named in Paragraph 11 of Form A: Proposal, and only such person, has authority to give notice of withdrawal.

B17.1.3 If a Proponent gives notice of withdrawal prior to the Submission Deadline, the Manager of Materials will:

- (a) retain the Proposal until after the Submission Deadline has elapsed;
- (b) open the Proposal to identify the contact person named in Paragraph 3 of Form A: Proposal and the Proponent's authorized representatives named in Paragraph 11 of Form A: Proposal; and
- (c) if the notice has been given by any one of the persons specified in B17.1.3(b), declare the Proposal withdrawn.

B17.2 A Proponent who withdraws his/her Proposal after the Submission Deadline but before his/her offer has been released or has lapsed as provided for in B16.2 shall be liable for such damages as are imposed upon the Proponent by law and subject to such sanctions as the Chief Administrative Officer considers appropriate in the circumstances. The City, in such event, shall be entitled to all rights and remedies available to it at law.

#### **B18. INTERVIEWS**

B18.1 The Contract Administrator may, in his/her sole discretion, interview Proponents during the evaluation process.

#### **B19. NEGOTIATIONS**

B19.1 The City reserves the right to negotiate details of the Contract with any Proponent. Proponents are advised to present their best offer, not a starting point for negotiations in their Proposal Submission.

B19.2 The City may negotiate with the Proponents submitting, in the City's opinion, the most advantageous Proposals. The City may enter into negotiations with one or more Proponents without being obligated to offer the same opportunity to any other Proponents. Negotiations may be concurrent and will involve each Proponent individually. The City shall incur no liability to any Proponent as a result of such negotiations.

B19.3 If, in the course of negotiations pursuant to B19.2 or otherwise, the Proponent amends or modifies a Proposal after the Submission Deadline, the City may consider the amended Proposal as an alternative to the Proposal already submitted without releasing the Proponent from the Proposal as originally submitted.

#### **B20. EVALUATION OF PROPOSALS**

B20.1 Award of the Contract shall be based on the following evaluation criteria:

- |     |  |             |
|-----|--|-------------|
| (a) | compliance by the Proponent with the requirements of the Request for Proposal or acceptable deviation therefrom: | (pass/fail) |
| (b) | qualifications of the Proponent and the Subcontractors, if any, pursuant to B14:                                 | (pass/fail) |
| (c) | meet the mandatory requirements of PART E -  | (pass/fail) |
| (d) | Evaluated Bid Price  | 40%         |
| (e) | Experience of Proponent and Subcontractor; (Section C)   | 10%         |
| (f) | Details of Services the Proponent Provides; (Section D)  | 25%         |
| (g) | Capacity and Ability to Provide the Service; (Section E)   | 25%         |
| (h) | Economic analysis of any approved alternative pursuant to B6   |             |
- B20.2 Further to B20.1(a), the Award Authority may reject a Proposal as being non-responsive if the Proposal is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Proposal, or waive technical requirements or minor informalities or irregularities if the interests of the City so require.
- B20.3 Further to B20.1(b), the Award Authority shall reject any Proposal submitted by a Proponent who does not demonstrate, in his/her Proposal or in other information required to be submitted, that he/she is responsible and qualified.
- B20.4 Further to B20.1(c) the Award Authority shall reject any Proposal submitted by a Proponent who does not demonstrate, in his/her Proposal or in other information required to be submitted, that he/she meets the mandatory requirements of PART E - .
- B20.5 Further to B20.1(d), the Evaluated Bid Price shall be the sum of the quantities multiplied by the unit prices for each item shown on Form B: Prices.
- B20.6 Further to B20.1(e), Experience of Proponent and Subcontractors will be evaluated considering the experience of the organization on projects of similar size and complexity as well as other information requested and submitted in response to B10.
- B20.7 Further to B20.1(f), Details of Service the Proponent Provides will be evaluated considering each detail of the service, based on the information requested and submitted in response to B11.
- B20.8 Further to B20.1(g), Capacity and Ability to Provide the Service will be evaluated to determine if the testing is possible and the capacity is available to complete the work based on the information requested and submitted in response to B12.
- B20.9 Notwithstanding B20.1(e) to B20.1(g), where Proponents fail to provide a response to B7.2(a) to B20.1(c) the score of zero may be assigned to the incomplete part of the response.
- B20.10 This Contract may be awarded as a whole or separately in sections as identified on Form B: Prices.
- B20.10.1 Notwithstanding B7.1, the Proponent may, but is not required to, bid on all sections.
- B20.10.2 Notwithstanding B21.3, the City shall not be obligated to award any section to the responsible Proponent submitting the lowest evaluated responsive Bid for that section and shall have the right to choose the alternative which is in its best interests. If the Proponent has not bid on all sections, he/she shall have no claim against the City if his/her partial Bid is rejected in favour of an award of the Contract on the basis of an alternative or section upon which he/she has not bid.
- B20.11 If, in the sole opinion of the City, a Proposal does not achieve a pass rating for B20.1(a) and B20.1(b) the Proposal will be determined to be non-responsive and will not be further evaluated.

**B21. AWARD OF CONTRACT**

- B21.1 The City will give notice of the award of the Contract, or will give notice that no award will be made.
- B21.2 The City will have no obligation to award a Contract to a Proponent, even though one or all of the Proponents are determined to be responsible and qualified, and the Proposals are determined to be responsive.
- B21.2.1 Without limiting the generality of B21.2, the City will have no obligation to award a Contract where:
- (a) the prices exceed the available City funds for the Work;
  - (b) the prices are materially in excess of the prices received for similar work in the past;
  - (c) the prices are materially in excess of the City's cost to perform the Work, or a significant portion thereof, with its own forces;
  - (d) only one Proposal is received; or
  - (e) in the judgment of the Award Authority, the interests of the City would best be served by not awarding a Contract.
- B21.3 Where an award of Contract is made by the City, the award shall be made to the responsible and qualified Proponent submitting the most advantageous offer.
- B21.3.1 Following the award of contract, a Proponent will be provided with information related to the evaluation of his/her Proposal upon written request to the Contract Administrator.
- B21.4 Notwithstanding C4 and Paragraph 6 of Form A; Proposal, the City may issue a purchase order to the successful Proponent in lieu of the execution of a Contract.
- B21.5 The Contract Documents, as defined in C1.1(n)(ii), in their entirety shall be deemed to be incorporated in and to form a part of the purchase order notwithstanding that they are not necessarily attached to or accompany said purchase order.

## **PART C - GENERAL CONDITIONS**

### **C0. GENERAL CONDITIONS**

- C0.2 The *General Conditions for Supply of Services* (Revision 2007 04 12) are applicable to the Work of the Contract.
- C0.2.1 The *General Conditions for Supply of Services* are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at [http://www.winnipeg.ca/matmgt/gen\\_cond.stm](http://www.winnipeg.ca/matmgt/gen_cond.stm)
- C0.2.2 A reference in the Request for Proposal to a section, clause or subclause with the prefix “**C**” designates a section, clause or subclause in the *General Conditions for Supply of Services*

## PART D - SUPPLEMENTAL CONDITIONS

### GENERAL

#### D1. GENERAL CONDITIONS

D1.1 In addition to the *General Conditions for Supply of Services*, these Supplemental Conditions are applicable to the Work of the Contract.

#### D2. SCOPE OF SERVICES

D2.1 The Work to be done under the Contract shall consist provision of laboratory testing services for the period from date of award until April 30, 2017 with the option of four (4) mutually agreed upon one (1) year extensions.

D2.1.1 The City may negotiate the extension option with the Contractor within sixty (60) Calendar Days prior to the expiry date of the Contract. The City shall incur no liability to the Contractor as a result of such negotiations.

D2.1.2 Changes resulting from such negotiations shall become effective on May 1 of the respective year. Changes to the Contract shall not be implemented by the Contractor without written approval by the Contract Administrator.

D2.2 The major components of the Work are as follows:

- (a) Contractor will be responsible for samples from the time they take possession from the agreed upon location;
- (b) Contractor will be responsible for prepared sample bottles until a City of Winnipeg employee takes possession from the agreed upon location;
- (c) Detailed reports
- (d) Detailed and summarized invoices

D2.3 The Work shall be done on an "as required" basis during the term of the Contract.

D2.3.1 The type and quantity of Work to be performed under this Contract shall be as authorized from time to time by the Contract Administrator and/or Users.

D2.3.2 Subject to C7.2, the City shall have no obligation under the Contract to purchase any quantity of any item in excess of its actual operational requirements.

D2.4 A site inspection can take place anytime throughout the term of the Contract to confirm that the capacity and ability to provide the service is still in place.

#### D3. DEFINITIONS

D3.1 When used in this Request for Proposal:

- (a) **"100L"** means per one hundred (100) litres;
- (b) **"CALA"** means Canadian Association for Laboratory Accreditation;
- (c) **"cfu/mL"** means colony forming units per millilitre;
- (d) **"cfu/100mL"** means colony forming units per 100 millilitre;
- (e) **"E. coli"** means Escherichia coliform;
- (f) **"ISO/IEC"** means International Standards Organization;
- (g) **"MDL"** means method detection limit;
- (h) **"mg/kg"** means milligrams per kilogram;
- (i) **"mg/L"** means milligrams per liter;
- (j) **"MPN"** means most probable number;

- (k) "**MPNU/mL**" means most probable number units per 100 millilitre;
- (l) "**ng/L**" means nanograms per litre;
- (m) "**Open water season**" means the period beginning in spring when all the ice on the surface waters are melted until the time when ice has started to form on the surface waters where the City conducts its sampling. Typically approximately 7 months duration;
- (n) "**pg/L**" means picograms per litre ;
- (o) "**pg/mL**" means picograms per millilitre ;
- (p) "**Proponent**" means any Person or Persons submitting a Proposal for Services;
- (q) "**Positive**" means a coliform result of greater than one (1);
- (r) "**SCC**" means Standard Council of Canada;
- (s) "**Turn-around Time**" means the time (expressed in Calendar Days') required to report test results from the time a sample is received by Contractor;
- (t) "**µg/L**" means micrograms per litre;
- (u) "**User**" means a person, department or other administrative unit of the City authorized by the Contract Administrator or order Work under this Contract.

#### **D4. CONTRACT ADMINISTRATOR**

D4.1 The Contract Administrator is:

Courtney Diduck  
Analytical Services Branch Head  
Water and Waste Department  
Telephone No. 204 986-4752  
Email: cdiduck@winnipeg.ca

D4.2 At the pre-commencement meeting, the Contract Administrator will identify additional personnel representing the Contract Administrator and their respective roles and responsibilities for the Work.

D4.3 Bids Submissions must be submitted to the address in B7.10.

#### **D5. CONTRACTOR'S SUPERVISOR**

D5.1 Further to C6.19, the Contractor shall employ and keep on the Work, at all times during the performance of the Work, a competent supervisor and assistants, if necessary, acceptable to the Contract Administrator. The supervisor shall represent the Contractor on the Site. The supervisor shall not be replaced without the prior consent of the Contract Administrator unless the supervisor proves to be unsatisfactory to the Contractor and ceases to be in his/her employ.

D5.2 Before commencement of Work, the Contractor shall identify his/her designated supervisor and any additional personnel representing the Contractor and their respective roles and responsibilities for the Work.

D5.2.1 Further to C5.5 Contract Administrator may give instructions or orders to the Contractor's supervisor and such instructions or orders shall be deemed to have been given to the Contractor.

#### **D6. OWNERSHIP OF INFORMATION, CONFIDENTIALITY AND NON DISCLOSURE**

D6.1 The Contract, all deliverables produced or developed, and information provided to or acquired by the Contractor are the property of the City and shall not be appropriated for the Contractors own use, or for the use of any third party.

D6.2 The Contractor shall not make any public announcements or press releases regarding the Contract, without the prior written authorization of the Contract Administrator.

- D6.3 The following shall be confidential and shall not be disclosed by the Contractor to the media or any member of the public without the prior written authorization of the Contract Administrator;
- (a) information provided to the Contractor by the City or acquired by the Contractor during the course of the Work;
  - (b) the Contract, all deliverables produced or developed; and
  - (c) any statement of fact or opinion regarding any aspect of the Contract.
- D6.4 A Contractor who violates any provision of D6 may be determined to be in breach of Contract.

## **D7. NOTICES**

- D7.1 Notwithstanding C22.3, all notices of appeal to the Chief Administrative Officer shall be sent to the attention of the Chief Financial Officer at the following facsimile number:
- The City of Winnipeg  
Chief Financial Officer  
Facsimile No.: 204 949-1174
- D7.2 **Bids Submissions must be submitted to the address in B7.10.**

## **SUBMISSIONS**

### **D8. AUTHORITY TO CARRY ON BUSINESS**

- D8.1 The Contractor shall be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Contractor does not carry on business in Manitoba, in the jurisdiction where the Contractor does carry on business, throughout the term of the Contract, and shall provide the Contract Administrator with evidence thereof upon request.

### **D9. INSURANCE**

- D9.1 The Contractor shall provide and maintain the following insurance coverage:
- (a) commercial general liability insurance, in the amount of at least two million dollars (\$2,000,000.00) inclusive, with The City of Winnipeg added as an additional insured; such liability policy to also contain a cross-liability clause, non-owned automobile liability and products and completed operations cover, to remain in place at all times during the performance of the Work;
  - (b) if applicable, Automobile Liability Insurance covering all motor vehicles, owned and operated and used or to be used by the Contractor directly or indirectly in the performance of the Service. The Limit of Liability shall not be less than \$2,000,000 inclusive for loss or damage including personal injuries and death resulting from any one accident or occurrence;
  - (c) Professional liability or Errors and Omissions liability insurance in the amount of at least one million dollars (\$1,000,000) per claim to remain in place at all times during the performance of the Work and throughout the warranty period.
- D9.2 Deductibles shall be borne by the Contractor.
- D9.3 The Contractor shall provide the Contract Administrator with a certificate(s) of insurance, in a form satisfactory to the City Solicitor, at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than seven (7) Calendar Days from notification of the award of Contract.
- D9.4 The Contractor shall not cancel, materially alter, or cause the policy to lapse without providing at least thirty (30) Calendar Days prior written notice to the Contract Administrator.

- D9.5 The City shall have the right to alter the limits and/or coverages as reasonably required from time to time during the continuance of this agreement.

## **CONTROL OF WORK**

### **D10. COMMENCEMENT**

- D10.1 The Contractor shall not commence any Work until he/she is in receipt of a notice of award from the City authorizing the commencement of the Work.
- D10.2 The Contractor shall not commence any Work on the Site until:
- (a) the Contract Administrator has confirmed receipt and approval of:
    - (i) evidence of authority to carry on business specified in D8;
    - (ii) evidence of the workers compensation coverage specified in C6.14;
    - (iii) evidence of the insurance specified in D9;
  - (b) the Contractor has attended a meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a meeting.

### **D11. ORDERS**

- D11.1 The Contractor shall provide a local Winnipeg telephone number or a toll-free telephone number at which orders for service may be placed.

### **D12. RECORDS**

- D12.1 The Contractor shall keep detailed records of the services supplied under the Contract.
- D12.2 The Contractor shall record, as a minimum, for each item listed on Form B: Prices:
- (a) user name(s) and addresses;
  - (b) order date(s);
  - (c) service date(s); and
  - (d) description and quantity of services provided.
- D12.3 The Contractor shall provide the Contract Administrator with a copy of the usage records for each year within thirty (30) Calendar Days of the end of year one (1) and within thirty (30) Calendar days at the end of any Contract extension period should the Contract be extended.

## **MEASUREMENT AND PAYMENT**

### **D13. INVOICES**

- D13.1 Further to C11, the Contractor shall submit an invoice for each order delivered to:

The City of Winnipeg  
Corporate Finance - Accounts Payable  
4th Floor, Administration Building, 510 Main Street  
Winnipeg MB R3B 1B9

Facsimile No.: 204 949-0864  
Email: [CityWpgAP@winnipeg.ca](mailto:CityWpgAP@winnipeg.ca)

- D13.2 Invoices must clearly indicate, as a minimum:
- (a) the City's purchase order number;
  - (b) reference to the Contract number;
  - (c) date of delivery;

- (d) delivery address;
- (e) summary of the type and quantity of goods delivered;
- (f) the amount payable with GST and MRST shown as separate amounts; and
- (g) the Contractor's GST registration number.

D13.3 The City will bear no responsibility for delays in approval of invoices which are improperly submitted.

#### **D14. PAYMENT**

D14.1 Further to C11, payment shall be in Canadian funds net thirty (30) Calendar Days after receipt and approval of the Contractor's invoice.

D14.2 Further to C11, the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

#### **Payment Deductions:**

D14.3 If the test results and reports as per E2.7 to E2.9 for Routine and/or Rush Samples are not provided to the Contract Administrator or Contract Supervisor within the applicable Turn-around Time(s) specified in E9, the test results and report is considered late and the Contractor shall reduce the fees payable with respect to the testing service submitted according to the following rates:

- (a) 1 Calendar Day late, fee reduction is 20%
- (b) 2 Calendar Days late, fee reduction is 50%
- (c) 3 or more Calendar Days late, fee reduction is 100%

D14.4 Further to D14.3, if the Contractor has made contact as per E2.10 payment deductions may not be applied.

#### **D15. PURCHASING CARD**

D15.1 The Contractor shall allow Users to charge items to their purchasing cards at no extra cost.

D15.2 The Contractor's credit card website/gateway shall have appropriate current Payment Card Industry Data Security standards (PCI DSS) certification, (<https://www.pcisecuritystandards.org/index.shtml>). The credit card gateway shall meet the credit card data security requirements outlined by the Payment Card Industry Security Standards Council (PCI SSC) for service providers and/or software vendors.

#### **WARRANTY**

#### **D16. WARRANTY**

D16.1 Notwithstanding C12, Warranty does not apply to this Contract.

## **PART E - SPECIFICATIONS**

### **GENERAL**

#### **E1. APPLICABLE SPECIFICATIONS**

- E1.1 These Specifications shall apply to the Work.
- E1.2 Proponents are reminded that requests for approval of substitutes as an approved equal or an approved alternative shall be made in accordance with B6.

#### **E2. SERVICES**

- E2.1 The Contractor shall supply Laboratory Testing in accordance with the requirements hereinafter specified
- E2.2 All tests shall be done according to Environmental Protection Agency (EPA) method or 21<sup>st</sup> Standard Methods for the Examination of Water and Wastewater, or method agreed upon between the Contract Administrator and Contractor
- E2.3 Each test that is not conducted, through human, instrument, or other error shall be reported as "No Result" or "Not Analyzed" with a corresponding explanation stated. In these cases, the City will not be charged for the sample preparation unless the prepared sample is analyzed for another parameters nor shall they be charged for the testing that is not performed.
- E2.4 The Contractor must contact the Contract Administrator or Contract Supervisors as quickly as possible if Samples are damaged, fail to meet submission protocols/standards associated with the analysis, or when information is questionable on the Submission Form or the Sample containers.
- E2.5 The Contractor shall promptly notify the Contract Administrator if the Sample are lost, incorrectly analyzed, or incorrectly reported or not tested within the method hold time and request resampling or approval to continue testing.
- E2.6 The Contractor must record the date, time and temperature of all sample that are dropped off, picked up or delivered to the Laboratory and make this information available to the Contract Administrator.
- E2.7 Test results and reports shall;
- (i) be available on the web site, with an electronic copy e-mailed to the specified address and contact person(s);
  - (ii) include Quality Control test reports
  - (iii) be made available in hard copy format;
  - (iv) upon request, be made available in an electronic readable format such as Microsoft Excel;
  - (v) be made delivered as an electronic file suitable to be used as Electronic Data Deliverables (EDD) in a format such as XML, CSV, XLS and include Laboratory and sample specific unique identifiers; and
  - (vi) be in accordance with the requirements outlined under section 5.10 of the ISO/IEC 17025:2005 international standard or otherwise agreed upon between the Contract Administrator and Contractor.
- E2.8 Preliminary or unofficial test results shall be available in accordance with E2.7 with the mutual understanding that the final official results may differ.
- E2.9 Notification to the Contract Administrator shall be by phone, or e-mail that preliminary results for rush analysis are available to the Contract Administrator.

- E2.10 Notification to the Contract Administrator or Contract Supervisors, shall occur before the required Turn-around Time, if analysis and reporting is not within the required Turn-around Time accompanied with an estimate of the date when the analysis and reporting will be given.
- E2.11 The Contractor shall supply all the bottles required within five business (5) days of ordering for regular testing in a “ready to use” condition and have them available for pick-up by the City from the same location at the drop-off location or have the samples delivered to a location agreed upon between the Contract Administrator and Contractor. Emergency sampling bottles shall be available within the time frame agreed upon between the Contract Administrator and Contractor.
- E2.12 The Contractor will supply the City with sample kits which include shipping containers (e.g. coolers), sample bottles, ice packs, directions and precautions and Material Safety Data Sheets, when reagents, preservatives, or special handling is required as part of the sampling protocol at no additional cost.
- E2.13 The Contractor shall accept delivery of samples between the hours of 8:00a.m and 5:00pm daily during the Monday to Friday workweek.
- E2.14 The Contractor shall accept delivery of samples on Saturdays, Sundays, and statutory holidays. The Contractor shall accept delivery for consecutive hours on Saturdays, Sundays, and statutory holidays as agreed upon by the Contract Administrator. Statutory holidays must be agreed upon at a later date, but within forty-eight (48) hours of the holiday.
- E2.15 All Bacteriological test methods, (Total Coliform, Fecal Coliform, E. Coli) shall commence the same day that samples are received, conditional that the City has met the agreed upon submission deadline and 24 hrs, when the City has missed the deadline.
- E2.16 The Contractor shall have a contact person(s) and phone number that the City can contact at anytime for emergency purposes.
- E2.17 Emergency testing shall commence immediately upon sample delivery and are considered highest priority for analysis, if the City has met the agreed upon conditions with regards to availability, acceptability and notification with the Contractor and it has been agreed upon.
- E2.18 The Contractor shall be currently accredited and maintain status of accreditation for the duration of the contract as per ISO:17025;2005, General Requirements for the Competence of Testing and Calibration Laboratories by one of the following bodies;
- (i) CALA (Canadian Association for Laboratory Accreditation); or
  - (ii) Standards Council of Canada.
- E2.19 If any accreditation is suspended or revoked for any parameter to be tested under this Contract the Contract Administer must be advise immediately in writing. Upon review the Contract Administer reserves the right to have the Contractor subcontract the analysis for which accreditation has been suspended at no cost to the City. The subcontractor must meet the conditions of this RFP and be approved by the Contract Administer.
- E2.20 If any parameter to be tested under this contract cannot be completed by the Contractor due to an instrument/equipment and/or operational issue and Subcontracting is required to maintain the level of service. The Contract Administer must be advised of the Subcontracting and they must meet the conditions of this RFP and be approved.
- E2.21 The Contractor shall notify and provide a Corrective Action Report to the Contract Administrator of any issues arise that impacted the results reported under this contract. The Contractor shall provide if requested a Corrective Action Report for problems regarding data-related investigations or service requirement at the request of the Contract Administrator.
- E2.22 An accredited method is required for testing all parameters listed below.
- (a) A non-accredited test method for testing any parameters listed below requires the Contract Administrator approval.

E2.23 Section **E7** Regulatory Testing has the following additional mandatory requirements which must meet in order to accept and report results under this selection;

- (a) Samples submitted under this section are;
  - (i) Required to be submitted on the Water System Submission Form known as the Chain of Custody in the format required by the Office of Drinking Water and approved by the Laboratory and Special Contracts Coordinator of the Office of Drinking Water.
  - (ii) Manitoba Conservation and the Office of Drinking water reserve the right to make changes to the format of the Chain of Custody Form at any time over the course of this Contract at which the Contractor will be required to update and receive approval.
- (b) Results are required to be reported to the Office of Drinking water by email
- (c) Reporting of results need to be done in accordance to Manitoba Conservation and Water Stewardship Environmental Management System EMS Lab Data File Format Schedule 14, Appendix 2. Section A (Water) and the Terms and Conditions for Data Transfer for Manitoba Conservation and Water Stewardship need to be done in accordance to Schedule 14. See **Appendix 2** for these documents.

**SPECIFIC TESTING**

**E3. SECTION A (WATER)**

E3.1 Item 1, Taste and Odour Compound in water shall:

- (a) consist of approximately twenty four (24) samples annually;
- (b) consist of three to four (3-4) water samples submitted with each sampling period, occurring more frequently during “open water season”;
- (c) have tests performed to include the following parameters:

Item 1	Taste & Odour Compound, Water	
Parameters	Units	MDL
2-isopropyl-3-methoxypyrazine	pg/mL	2
2-isobutyl-3-methoxypyrazine	pg/mL	2
2-methylisoborneol	pg/mL	10
2,4,6-trichloroanisole	pg/mL	2
2,3,6-trichloroanisole	pg/mL	2
Geosmin	pg/mL	1
3,4,5-trichloroveratrole	pg/mL	2

E3.2 Item 2, Volatile Organic Compounds in water shall:

- (a) consist of approximately ten (10) samples annually;
- (b) consist of two to three (2-3) water samples submitted quarterly;
- (c) have tests performed to include the following parameters:

Item 2	Volatile Organic Compounds, Water	
Parameters	Units	MDL
Methylene Chloride	ng/L	0.5
MTBE	ng/L	0.05

E3.3 Item 3, N-Nitrosodimethylamine (NDMA) in water, shall:

- (a) consist of approximately twenty (10) samples annually;
- (b) consist of two to three (2-3) water samples submitted quarterly;
- (c) have tests performed to include the following parameters:

Item 3	N-Nitrosodimethylamine (NDMA), Water	
Parameters	Units	MDL
NDMA	µg/L	0.001

E3.4 Item 4, Microcystin in water shall:

- (a) consist of approximately twenty four (24) routine and irregular samples annually;
- (b) occur more frequently during the summer months (April to October);
- (c) have tests performed to include the following parameter:

Item 4	Microcystin, Water	
Parameters	Units	MDL
Total Microcystin,	µg/L	1.5
Microcystin LR	µg/L	0.2

E3.5 Item 5, Total Mercury in water shall:

- (a) consist of approximately sixty four (64) samples annually;
- (b) consist of sixteen (16) water samples submitted quarterly;
- (c) have a minimum of sixteen (16) sample bottles, pre-cleaned and available within four (4) hours notice;
- (d) have tests performed to include the following parameter:

Item 5	Total Mercury, Water	
Parameters	Units	MDL
Total Mercury	ng/L	0.5

E3.6 Item 6, Pesticides and Herbicides (COW Test #12) in water, shall:

- (a) consist of approximately twenty (20) tests annually;
- (b) have tests performed to include the following parameters:

Item 6	Pesticides and Herbicides (COW Test #12), Water	
Parameters	Units	MDL
<b>Pesticide List 1 (LC/MS-MS)</b>		
Eptam	µg/L	< 0.2
Propachlor	µg/L	< 0.2
Propanil	µg/L	< 0.2
Propoxur	µg/L	< 0.2
<b>Pesticide List 2 (LC/MS-MS)</b>		
Trichlopyr	µg/L	< 0.2
Chlorthalonil	µg/L	< 0.2
<b>Miscellaneous Pesticides</b>		
Alachlor	µg/L	< 0.2
Aldicarb	µg/L	< 0.2
Atrazine	µg/L	< 0.2
Azinphosmethyl	µg/L	< 0.2
Bendiocarb	µg/L	< 0.5
Carbaryl	µg/L	< 0.5
Carbofuran	µg/L	< 0.2
Chlorpyrifos	µg/L	< 0.2
Cyanazine	µg/L	< 0.2

Diazinon	µg/L	< 0.2
Diclofop-methyl	µg/L	< 0.2
Dimethoate	µg/L	< 0.2
Diquat	µg/L	< 0.2
Diuron	µg/L	< 0.2
Glyphosate	µg/L	< 0.2
Malathion	µg/L	< 0.2
Methyl Parathion	µg/L	< 0.2
Metolachlor	µg/L	< 0.2
Metribuzin	µg/L	< 0.2
Paraquat	µg/L	< 0.2
Parathion	µg/L	< 0.2
Phorate	µg/L	< 0.2
Picloram	µg/L	< 0.2
Simazine	µg/L	< 0.2
Terbufos	µg/L	< 0.2
Triallate	µg/L	< 0.2
Trifluralin	µg/L	< 0.05
<b>Organochlorine Pesticides</b>		
Aldrin	µg/L	< 0.02
alpha-BHC	µg/L	< 0.02
beta-BHC	µg/L	< 0.02
delta-BHC	µg/L	< 0.02
alpha-Chlordane	µg/L	< 0.02
gamma-Chlordane	µg/L	< 0.02
op-DDD	µg/L	< 0.02
pp-DDD	µg/L	< 0.02
o,p-DDE	µg/L	< 0.02
pp-DDE	µg/L	< 0.02
op-DDT	µg/L	< 0.02
p,p-DDT	µg/L	< 0.02
Dieldrin	µg/L	< 0.02
alpha-Endosulfan	µg/L	< 0.02
beta-Endosulfan	µg/L	< 0.02
Endrin	µg/L	< 0.02
Heptachlor	µg/L	< 0.02
Heptachlor Epoxide	µg/L	< 0.02
Lindane (gamma-BHC )	µg/L	< 0.02
Methoxychlor	µg/L	< 0.02
Mirex	µg/L	< 0.02
<b>Polychlorinated Biphenyls (PCBs)</b>		
Arochlor 1016	µg/L	< 0.1
Arochlor 1221	µg/L	< 0.1
Arochlor 1232	µg/L	< 0.1
Arochlor 1242	µg/L	< 0.1
Arochlor 1248	µg/L	< 0.1
Arochlor 1254	µg/L	< 0.1
Arochlor 1260	µg/L	< 0.1
<b>Phenoxy Acid Herbicides</b>		
2,4,5-T	µg/L	< 0.05
2,4,5-TP	µg/L	< 0.05
2,4-D	µg/L	< 0.05

2,4-DB	µg/L	< 0.05
2,4-DP	µg/L	< 0.05
Bromoxynil	µg/L	< 0.02
Dicamba	µg/L	< 0.02
Dichloroprop	µg/L	< 0.05
Dinoseb	µg/L	< 0.05
MCPA	µg/L	< 0.05
MCPB	µg/L	< 0.05
MCPP (Mecroprop)	µg/L	< 0.05
Trichlopyr	µg/L	< 0.05

E3.7 Item 7, Chromium, Hexavalent in water shall:

- (a) consist of approximately sixty four (64) samples annually;
- (b) consist of sixteen (16) water samples submitted quarterly;
- (c) have tests performed to include the following parameter:

<b>Item 7</b>	<b>Chromium Hexavalent</b>	
<b>Parameters</b>	<b>Units</b>	<b>MDL</b>
Chromium Hexavalent	µg/L	<10

E3.8 Item 8, Perchlorate in water shall:

- (a) consist of approximately sixteen (16) samples annually;
- (b) consist of sixteen (4) water samples submitted quarterly;
- (c) have tests performed to include the following parameter:

<b>Item 8</b>	<b>Perchlorate in Water</b>	
<b>Parameters</b>	<b>Units</b>	<b>MDL</b>
Perchlorate	µg/L	0.2

E3.9 Item 9, Total Metals, in water shall:

- (a) consist of approximately ninety six (96) samples annually;
- (b) consist of eight (8) water samples submitted monthly;
- (c) have tests performed to include the following parameter:

<b>Item 9</b>	<b>Total Metals in Water</b>	
<b>Parameters</b>	<b>Units</b>	<b>MDL</b>
Total Silica (SiO <sub>2</sub> )	mg/L	0.3

E3.10 Item 10, Total Kjeldahl Nitrogen in water shall:

- (a) consist of approximately thirty six (36) sample annually;
- (b) consist of three (3) water samples submitted monthly;
- (c) have tests performed to include the following parameter:

<b>Item 10</b>	<b>Total Kjeldahl Nitrogen</b>	
<b>Parameters</b>	<b>Units</b>	<b>MDL</b>
Total Kjeldahl Nitrogen (as N)	mg/L	0.2

E3.11 Item 11, Total Phosphorus in water shall:

- (a) consist of approximately thirty six (36) sample annually;
- (b) consist of three (3) water samples submitted monthly;
- (c) have tests performed to include the following parameter:

Item 11	Total Phosphorus, Water	
Parameters	Units	MDL
Total Phosphorus (as P)	µg/L	1.0

E3.12 Item 12, Total Reactive Phosphorus in water shall:

- (a) consist of approximately thirty six (36) sample annually;
- (b) consist of three (3) water samples submitted monthly;
- (c) have tests performed to include the following parameter:

Item 12	Total Reactive Phosphorus, Water	
Parameters	Units	MDL
Total Reactive Phosphorus (Dissolved)	µg/L	1.0

E3.13 Item 13, Surcharge fee for rush analysis shall:

- (a) consist of the unit cost for rush analysis of any sample tested under section E3.

**E4. SECTION B (WASTEWATER)**

E4.1 Item 14, Fecal Coliform, wastewater shall:

- (a) consist of up to thirteen hundred and sixty (1360) wastewater samples annually;
- (b) consist of three (3) wastewater effluent samples submitted daily;
- (c) consist of eight to eleven (8 to11) surface water samples submitted weekly during “open water season”;
- (d) the range or “pre-defined endpoint” shall be around one million, reported as “greater than” >1,000,000;
- (e) have tests to include the following parameters:

Item 14	FECAL COLIFORM IN WASTEWATER	
Parameters	Units	MDL
Fecal Coliform by MPNU to (pre-defined) endpoint	MPNU/100 mL	<3

E4.2 Item 15, Fecal Coliform, to endpoint, (true endpoint), wastewater shall:

- (a) consist of approximately seventy (70) wastewater samples submitted irregularly, when wastewater flows exceed the wastewater treatment plant’s design capacity;
- (b) be reported as a numerical value;
- (c) have tests to include the following parameters:

Item 15	FECAL COLIFORM TO ENDPOINT IN WASTEWATER	
Parameters	Units	MDL
Fecal Coliform by MPNU to true endpoint (no maximum value)	MPNU/100 mL	<3

E4.3 Item 16, Fecal Coliform, wastewater shall:

- (a) consist of approximately one (1) tests annually;
- (b) the range or “pre-defined endpoint” shall be around twenty four hundred and nineteen (2419), and reported as “greater than” >2,419;

- (c) have tests to include the following parameters:

Item 16	FECAL COLIFORM IN WASTEWATER	
Parameters	Units	MDL
Fecal Coliform by Quanti-Tray 97 to (pre-defined) endpoint	MPN/100 mL	<1

- E4.4 Item 17, Fecal Coliform, to endpoint, (true endpoint), wastewater shall:

- (a) consist of approximately one (1) test annually;  
 (b) be reported as a numerical value;  
 (c) have tests to include the following parameters:

Item 17	FECAL COLIFORM IN WASTEWATER	
Parameters	Units	MDL
Fecal Coliform by Quanti-Tray 97 to true endpoint (no maximum value)	MPN/100 mL	<1

- E4.5 Item 18, Escherichia Coliform (E. Coli), wastewater shall:

- (a) consist of up to thirteen hundred and sixty (1360) wastewater samples annually;  
 (b) consist of three (3) wastewater effluent samples submitted daily;  
 (c) consist of eight to eleven (8 to 11) surface water samples submitted weekly during “open water season”;  
 (d) the high range (maximum reported value) shall be around one million, reported as “greater than” >1,000,000;  
 (e) have tests to include the following parameter:

Item 18	ESCHERICIA COLIFORM IN WASTEWATER	
Parameters	Units	MDL
Escherichia Coliform by MPNU to endpoint	MPNU/100 mL	<3

- E4.6 Item 19, Escherichia Coliform (E. Coli), wastewater shall:

- (a) consist of approximately two hundred and twenty (220) wastewater samples submitted irregularly throughout the year, when wastewater flows exceed the wastewater treatment plant’s design capacity;  
 (b) be reported as a numerical value.  
 (c) have tests to include the following parameter:

Item 19	ESCHERICIA COLIFORM IN WASTEWATER	
Parameters	Units	MDL
E. Coli by MPNU to true endpoint (no maximum value)	MPNU/100 mL	<3

- E4.7 Item 20, Total Coliform and Escherichia Coliform (E. Coli), wastewater shall:

- (a) consist of approximately one (1) tests annually;  
 (b) the range or “pre-defined endpoint” shall be around twenty four hundred and nineteen (2419), and reported as “greater than” >2,419;  
 (c) have tests to include the following parameters:

Item 20	TOTAL & ESCHERICIA COLIFORM IN WASTEWATER	
Parameters	Units	MDL
E. Coli by Quanti-Tray 97 to (pre-defined)	MPN/100 mL	<1

endpoint		
Total Coliform by Quanti-Tray to (pre-defined) endpoint	MPN/100 mL	<1

E4.8 Item 21, Total Coliform and Escherichia Coliform (E. Coli), (true endpoint) wastewater shall:

- (a) consist of approximately one (1) test annually;
- (b) be reported as a numerical value;
- (c) have tests to include the following parameters:

Item 21	TOTAL & ESCHERICIA COLIFORM IN WASTEWATER	
Parameters	Units	MDL
E. Coli by Quanti-Tray 97 to true endpoint (no maximum value)	MPN/100 mL	<1
Total Coliform by Quanti-Tray to true endpoint (no maximum value)	MPN/100 mL	<1

E4.9 Item 22, Total Coliform, wastewater shall:

- (a) consist of approximately fifty (50) wastewater samples submitted irregularly;
- (b) be reported as a numerical value.
- (c) have tests performed to include the following parameter:

Item 22	TOTAL COLIFORM IN WASTEWATER	
Parameters	Units	MDL
Total Coliform by MPNU to endpoint	MPNU/100 mL	<3

E4.10 Item 23, Total Mercury in wastewater shall:

- (a) consist of approximately one (1) sample annually
- (b) have a minimum of four (4) sample bottles, pre-cleaned and available within eight (8) hours notice;
- (c) have tests performed to include the following parameter:

Item 23	Total Mercury, Wastewater	
Parameters	Units	MDL
Total Mercury	ng/L	0.5

E4.11 Item 24, Total Mercury in Dewatered Sludge shall;

- (a) Consist of approximately twenty six (26) dewatered sludge samples submitted biweekly
- (b) Have tests performed to include the following parameters;

Item 24	Total Mercury, Dewatered Sludge	
Parameters	Units	MDL
Total Mercury	mg/kg dry	0.2

E4.12 Item 25, Total Organic Carbon in Dewatered Sludge;

- (a) Consist of approximately twenty six (26) dewatered sludge samples submitted biweekly
- (b) Have tests performed to include the following parameters;

Item 25	Total Organic Carbon, Dewatered Sludge	
Parameters	Units	MDL

Total Organic Carbon	% dry basis	0.5
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E4.13 Item 26, Moisture in Dewatered Sludge;

- (a) Consist of approximately twenty six (26) dewatered sludge samples submitted biweekly
- (b) Have tests performed to include the following parameters;

Item 26	Moisture, Dewatered Sludge	
Parameters	Units	MDL
Total Moisture	%	0.1

E4.14 Item 27, Total Nitrogen in wastewater;

- (a) consist of approximately one (1) sample annually;
- (b) Have tests performed to include the following parameters;

Item 27	Total Nitrogen, Wastewater	
Parameters	Units	MDL
Total Nitrogen	mg/L	0.2

E4.15 Item 28, Total Organic Carbon in wastewater;

- (a) consist of approximately one (1) sample annually;
- (b) Have tests performed to include the following parameter;

Item 28	Total Organic Carbon, Wastewater	
Parameters	Units	MDL
Total Organic Carbon	mg/L	0.6

E4.16 Item 29, Dissolved Organic Carbon in wastewater;

- (a) consist of approximately one (1) sample annually;
- (b) Have tests performed to include the following parameter;

Item 29	Dissolved Organic Carbon, Wastewater	
Parameters	Units	MDL
Dissolved Organic Carbon	mg/L	0.6

E4.17 Item 30, Ammonia by Colour in wastewater;

- (a) consist of approximately one (1) sample annually;
- (b) Have tests performed to include the following parameter;

Item 30	Ammonia, Wastewater	
Parameters	Units	MDL
Ammonia	mg/L N	0.01

E4.18 Item 31, Total Metals in wastewater shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include at least the following parameters:

Item 31	Total Metals	
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Parameters	Units	MDL
Aluminum	mg/L	0.0005
Antimony	mg/L	0.003
Arsenic	mg/L	0.0002
Cadmium	mg/L	0.0001
Chromium	mg/L	0.0007
Cobalt	mg/L	0.001
Copper	mg/L	0.0003
Iron	Mg/L	0.008
Lead	mg/L	0.0004
Manganese	mg/L	0.01
Molybdenum	mg/L	0.0002
Nickel	mg/L	0.002
Phosphorous	mg/L	0.1
Selenium	mg/L	0.001
Silver	mg/L	0.001
Tin	mg/L	0.001
Titanium	mg/L	0.001
Zinc	mg/L	0.001

- E4.19 Item 32, Surcharge fee for rush analysis shall:
- (a) consist of the unit cost for rush analysis of any sample tested under section E4.

**E5. SECTION C (SCHEDULE A, WASTEWATER)**

- E5.1 Item 33, Total Metals in wastewater shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the following parameters:

Item 33	Total Metals, Wastewater	
Parameters	Units	MDL
Arsenic	ug/L	0.20
Cadmium	ug/L	0.01
Chromium	ug/L	1.00
Copper	ug/L	0.20
Lead	ug/L	0.09
Mercury	ng/L	1.0
Molybdenum	ug/L	0.20
Nickel	ug/L	2.00
Selenium	ug/L	1.00
Zinc	ug/L	5.00

- E5.2 Item 34, Miscellaneous Compounds in wastewater shall:
- (a) consist of approximately one (1) sample annually
  - (b) have tests performed to include the following parameters:

Item 34	Miscellaneous Compounds, Wastewater	
Parameters	Units	MDL
Chromium, Hexavalent	ug/L	1.0

Phenols (4AAP)	ug/L	1.0
Tetraethyllead	ug/L	5.0
Total Oil and Grease	mg/L	1.0
Toxaphene	ug/L	0.10
Tributyl Tin	ng/L	5.0

- E5.3 Item 35, Volatile Organic Compounds in wastewater shall:
- (a) consist of approximately one (1) sample annually
  - (b) have tests performed to include the following parameters:

Item 35	Volatile Organic Compounds, Wastewater	
Parameters	Units	MDL
1,1,1,2-Tetrachloroethane	ug/L	0.50
1,1,1-Trichloroethane	ug/L	0.50
1,1,2,2-Tetrachloroethane	ug/L	0.50
1,1,2-Trichloroethane	ug/L	0.50
1,1-Dichloroethane	ug/L	0.50
1,1-Dichloroethylene	ug/L	0.50
1,2-Dibromoethane	ug/L	0.50
1,2-Dichlorobenzene	ug/L	0.50
1,2-Dichloroethane	ug/L	0.50
1,2-Dichloropropane	ug/L	0.50
1,3-Dichlorobenzene	ug/L	0.50
1,4-Dichlorobenzene	ug/L	0.50
2-Hexanone	ug/L	20
Acetone	ug/L	20
Benzene	ug/L	0.50
Bromodichloromethane	ug/L	0.50
Bromoform	ug/L	0.50
Bromomethane	ug/L	1.0
Carbon Disulfide	ug/L	0.50
Carbon tetrachloride	ug/L	0.50
Chlorobenzene	ug/L	0.50
Chloroethane	ug/L	1.0
Chloroform	ug/L	0.50
Chloromethane	ug/L	1.0
cis-1,2-Dichloroethylene	ug/L	0.50
cis-1,3-Dichloropropene	ug/L	0.50
Dibromochloromethane	ug/L	0.50
Dichlorodifluoromethane	ug/L	1.0
Dichloromethane	ug/L	0.50
Ethyl Benzene	ug/L	0.50
m+p-Xylenes	ug/L	1.0
Methyl Ethyl Ketone	ug/L	20
Methyl Isobutyl Ketone	ug/L	20
MTBE	ug/L	0.50
o-Xylene	ug/L	0.50
Styrene	ug/L	0.50
Tetrachloroethylene	ug/L	0.50
Toluene	ug/L	0.50
trans-1,2-Dichloroethylene	ug/L	0.50

trans-1,3-Dichloropropene	ug/L	0.50
Trichloroethylene	ug/L	0.50
Trichlorofluoromethane	ug/L	1.0
Trihalomethanes (total)	ug/L	2.0
Vinyl chloride	ug/L	0.50
Xylenes (Total)	ug/L	1.5

E5.4 Item 36, Target Compounds (by GC/MS), in wastewater shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameters:

Item 36	Target Compounds (by GC/MS), Wastewater	
Parameters	Units	MDL
Octachlorostyrene	ug/L	0.50
4,4'-Methylenebis(2-chloroaniline)	ug/L	0.50
Dinitropyrene	mg/L	0.02

E5.5 Item 37, Phenoxyacid Herbicides (by GC/MS), in wastewater shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameters:

Item 37	Total Phenoxyacid Herbicides (by GC/MS), Wastewater	
Parameters	Units	MDL
2,4,5-TP	ug/L	0.5
MCPA	ug/L	0.5
Mecoprop	ug/L	0.5
2,4,5-T	ug/L	0.5
2,4-D	ug/L	0.5
Bromoxynil	ug/L	0.5
Dicamba	ug/L	0.5
Dinoseb	ug/L	0.5
Picloram	ug/L	0.5

E5.6 Item 38, Organochlorine Pesticides in wastewater shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameters:

Item 38	Organochlorine Pesticides, Wastewater	
Parameters	Units	MDL
Aldrin	ug/L	1
a-chlordane	ug/L	10
g-chlordane	ug/L	10
alpha-BHC	ug/L	1
beta-BHC	ug/L	1
delta-BHC	ug/L	1
o,p-DDD	ug/L	10
pp-DDD	ug/L	10
o,p-DDE	ug/L	10
pp-DDE	ug/L	10
op-DDT	ug/L	10

pp-DDT	ug/L	10
Dieldrin	ug/L	10
alpha-Endosulfan	ug/L	25
beta-Endosulfan	ug/L	10
Endosulfan Sulfate	ug/L	10
Endrin	ug/L	10
Endrin Aldehyde	ug/L	10
Heptachlor	ug/L	1
Heptachlor Epoxide	ug/L	10
Lindane	ug/L	1
Methoxychlor	ug/L	10
Mirex	ug/L	10
Oxychlorane	ug/L	10

E5.7 Item 39, Polychlorinated Biphenyls (PCB) in wastewater shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameters:

Item 39	Polychlorinated Biphenyls (PCB), Wastewater	
Parameters	Units	MDL
Aroclor 1016	ug/L	0.05
Aroclor 1221	ug/L	0.05
Aroclor 1232	ug/L	0.05
Aroclor 1242	ug/L	0.05
Aroclor 1248	ug/L	0.05
Aroclor 1254	ug/L	0.05
Aroclor 1260	ug/L	0.05
Aroclor 1262	ug/L	0.05
Aroclor 1268	ug/L	0.05
Total PCBs	ug/L	0.10

E5.8 Item 40, PCDD (Dioxins) and PCDF (Furans) in wastewater shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameters:

Item 40	PCDD (Dioxins) and PCDF (Furans), Wastewater	
Parameters	Units	MDL
2378 TeCDD	pg/L	0.6
12378 PeCDD	pg/L	0.3
123478 HxCDD	pg/L	0.2
123678 HxCDD	pg/L	0.2
123789 HxCDD	pg/L	0.2
1234678 HpCDD	pg/L	0.3
OCDD	pg/L	0.2
Total TCDD	pg/L	0.6
Total PeCDD	pg/L	0.3
Total HxCDD	pg/L	0.2
Total HpCDD	pg/L	0.3
Total PCDDs	pg/L	0.6
2378 TeCDF	pg/L	0.3

12378 PeCDF	pg/L	0.3
23478 PeCDF	pg/L	0.2
123478 HxCDF	pg/L	0.4
123678 HxCDF	pg/L	0.5
123789 HxCDF	pg/L	0.5
234678 HxCDF	pg/L	0.5
1234678 HpCDF	pg/L	0.2
1234789 HpCDF	pg/L	0.2
OCDF	pg/L	0.3
Total TCDF	pg/L	0.3
Total PeCDF	pg/L	0.3
Total HxCDF	pg/L	0.5
Total HpCDF	pg/L	0.2
Total PCDFs	pg/L	0.5
Total TEQ (ND=0) (WHO Calc)	pg/L	-
Total TEQ (ND=0.5DL) (WHO Calc)	pg/L	-
Total TEQ (ND=DL) (WHO Calc)	pg/L	-

E5.9 Item 41, EPA 8270 Extractables in wastewater shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameters:

Item 41	EPA 8270 Extractables, Wastewater	
Parameters	Units	MDL
1-Chloronaphthalene	ug/L	0.4
1-Methylnaphthalene	ug/L	0.4
1,2-Dichlorobenzene	ug/L	0.4
1,2,3-Trichlorobenzene	ug/L	0.4
1,2,4-Trichlorobenzene	ug/L	0.4
1,3-Dichlorobenzene	ug/L	0.4
1,4-Dichlorobenzene	ug/L	0.4
2-Chloronaphthalene	ug/L	0.4
2-Chlorophenol	ug/L	0.3
2-Methylnaphthalene	ug/L	0.4
2-Methylphenol	ug/L	0.5
2-Nitrophenol	ug/L	0.5
2,3,4-Trichlorophenol	ug/L	0.5
2,3,4,5-Tetrachlorophenol	ug/L	0.5
2,3,4,6-Tetrachlorophenol	ug/L	0.5
2,3,5-Trichlorophenol	ug/L	0.5
2,3,5,6-Tetrachlorophenol	ug/L	0.5
2,4-Dichlorophenol	ug/L	0.3
2,4-Dimethylphenol	ug/L	0.5
2,4-Dinitrophenol	ug/L	1
2,4-Dinitrotoluene	ug/L	0.4
2,4,5-Trichlorophenol	ug/L	0.5
2,4,6-Trichlorophenol	ug/L	0.5
2,6-Dichlorophenol	ug/L	0.5
2,6-Dinitrotoluene	ug/L	0.4
3,3'-Dichlorobenzidine	ug/L	0.4
3&4-Methylphenol	ug/L	0.5

4-Bromophenyl phenyl ether	ug/L	0.4
4-Chloro-3-methylphenol	ug/L	0.5
4-Chloroaniline	ug/L	0.4
4-Chlorophenyl phenyl ether	ug/L	0.4
4-Nitrophenol	ug/L	0.5
4,6-Dinitro-2-methylphenol	ug/L	2
5-Nitroacenaphthene	ug/L	0.4
Acenaphthene	ug/L	0.2
Acenaphthylene	ug/L	0.2
Anthracene	ug/L	0.2
Benzo(a)anthracene	ug/L	0.2
Benzo(a)pyrene	ug/L	0.01
Benzo(b)fluoranthene	ug/L	0.2
Benzo(ghi)perylene	ug/L	0.2
Benzo(k)fluoranthene	ug/L	0.2
Biphenyl	ug/L	0.4
Bis(2-chloroethoxy)methane	ug/L	0.4
Bis(2-chloroethyl)ether	ug/L	0.4
Bis(2-chloroisopropyl)ether	ug/L	0.4
Bis(2-ethylhexyl)phthalate	ug/L	2
Butylbenzyl phthalate	ug/L	0.4
Camphene	ug/L	0.4
Chrysene	ug/L	0.2
Cresols (total)	ug/L	1
Di-n-butylphthalate	ug/L	2
Di-n-octylphthalate	ug/L	0.4
Dibenzo(a,h)anthracene	ug/L	0.2
Diethylphthalate	ug/L	0.2
Dimethylphthalate	ug/L	0.2
Diphenyl ether	ug/L	0.4
Diphenylamine	ug/L	0.4
Fluoranthene	ug/L	0.2
Fluorene	ug/L	0.2
Hexachlorobenzene	ug/L	0.04
Hexachlorobutadiene	ug/L	0.2
Hexachlorocyclopentadiene	ug/L	0.4
Hexachloroethane	ug/L	0.4
Indeno(1,2,3-cd)pyrene	ug/L	0.2
Indole	ug/L	0.4
Isophorone	ug/L	0.4
N-Nitroso-di-n-propylamine	ug/L	0.4
Naphthalene	ug/L	0.2
Nitrobenzene	ug/L	0.4
Pentachlorophenol	ug/L	0.5
Perylene	ug/L	0.2
Phenanthrene	ug/L	0.2
Phenol	ug/L	0.5
Pyrene	ug/L	0.2
2-Fluorobiphenyl	%	
2,4,6-Tribromophenol	%	
Nitrobenzene d5	%	
p-Terphenyl d14	%	

Phenol d5	%	
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E5.10 Item 42, Nonylphenols and Nonylphenol Ethoxylates in wastewater shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameters:

Item 42	Nonylphenols and Nonylphenol Ethoxylates, Wastewater	
Parameters	Units	MDL
Nonylphenols	µg/L	100
Nonylphenol Monoethoxylates	µg/L	500
Nonylphenol Diethoxylates	µg/L	1200
Nonylphenol Triethoxylates	µg/L	2000
t-Octylphenol	µg/L	2
t-Octylphenol Monoethoxylate	µg/L	10
t-Octylphenol Diethoxylate	µg/L	50
t-Octylphenol Triethoxylate	µg/L	200

E5.11 Item 43, Schedule A Testing Complete (complete set of test to include items 33 to 42) shall:

- (a) consist of approximately twenty four (24) samples annually
- (b) have tests performed to include all parameters listed under items 33 to 42.

E5.12 Item 44, Trout Bioassay (Pass/Fail) in wastewater shall:

- (a) consist of a total of three (3) twenty (20) litre wastewater effluent samples submitted quarterly for a total of twelve (12) twenty (20) litre samples submitted annually, along with item 43;
- (b) have tests performed according to “Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout (EPS 1/RM/13 Second Edition)” of the Environmental Protection Series from Environmental Canada for the following parameters:

Item 44	Trout Bioassay (Pass/Fail), Wastewater	
Parameters	Units	MDL
Trout Bioassay (Pass/Fail)	%	Pass/Fail

E5.13 Item 45, Trout Bioassay (Pass/Fail) with pH Stabilization in wastewater shall:

- (a) consist of a total of three (3) twenty (20) litre wastewater effluent samples submitted monthly for a total of thirty six (36) twenty (20) litre samples submitted annually along with item 43 & 44 on selected months;
- (b) have tests performed according to “Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout (EPS 1/RM/13 Second Edition)” and “Procedure for pH Stabilization During the Testing of Acute Lethality of Wastewater Effluent to Rainow Trout” of the Environmental Protection Series from Environmental Canada for the following parameters:

Item 45	Trout Bioassay (Pass/Fail) with pH Stabilization, Wastewater	
Parameters	Units	MDL
Trout Bioassay (Pass/Fail) with pH Stabilization	%	Pass/Fail
Ammonia by Colour	mg/L	0.01

E5.14 Item 46, Surcharge fee for rush analysis shall:

- (a) consist of the unit cost for rush analysis of any sample tested under items E5.

**E6. SECTION D (GIARDIA & CRYPTOSPORIDIUM, WATER/WASTEWATER)**

E6.1 Item 47, Giardia and Cryptosporidium in water shall:

- (a) consist of approximately forty (40) filter samples annually, collected from surface waters;
- (b) have tests performed to include the following parameter:

Item 47	Giardia & Cryptosporidium, Water	
Parameters	Units	MDL
Giardia cyst in water, Non-viable	cyst/100L	1.0
Giardia cyst in water, Viable	cyst/100L	1.0
Cryptosporidium oocyst in water, Non-viable	oocyst/100L	1.0
Cryptosporidium oocyst in water, Viable	oocyst/100L	1.0

E6.2 Item 48, Giardia & Cryptosporidium in wastewater shall:

- (a) consist of approximately twenty (20) wastewater samples annually;
- (b) have tests performed to include the following parameter:

Item 48	Giardia & Cryptosporidium, Wastewater	
Parameters	Units	MDL
Giardia cyst in wastewater, Non-viable	cyst/1L	1.0
Giardia cyst in wastewater, Viable	cyst/1L	1.0
Cryptosporidium oocyst in wastewater, Non-viable	oocyst/1L	1.0
Cryptosporidium oocyst in wastewater, Viable	oocyst/1L	1.0

E6.3 Item 49, Filta-Max Filter Modules shall:

- (a) consists of approximately sixty (60) filters annually;
- (b) filters may packaged and sold in bulk quantities no greater than 10 filter units per pack and;
- (c) each filter must be individually wrapped/sealed.

E6.4 Item 50, Surcharge fee for rush analysis shall:

- (a) consist of the unit cost for rush analysis of any sample tested under items E6.

**E7. SECTION E (REGULATORY TESTING IN WATER)**

E7.1 Item 51, Manitoba Conservation Test 54 PWS (General Chemistry Test)

- (a) Consist of approximately eight (8) test annually
- (b) Meet Manitoba Conservations Requirement for testing and reporting as described in E2.23
- (c) Have test performed to include the following parameters

Item 51	Manitoba Conservation Test 54 PWS (General Chemistry)	
Parameters	Units	MDL
Alkalinity, Total (as CaCO3)	mg/L	1
Alkalinity, Bicarbonate (HCO3)	mg/L	0.5
Alkalinity, Carbonate (CO3)	mg/L	0.5
Alkalinity, Hydroxide (OH)	mg/L	0.5
Bromide (Br)	mg/L	0.01
Total Organic Carbon	mg/L	1

Dissolved Organic Carbon	mg/L	1
Chloride (Cl)	mg/L	0.2
Colour, True	CU	5
Conductivity	uS/cm	1
Total Hardness (as CaCO3)	mg/L	0.07
Saturation Index (4.4 °C) (Calculated)		<=-14
Saturation Index (60 °C) (Calculated)		<=-14
Fluoride (F)	mg/L	0.2
Aluminum (Al)-Total	mg/L	0.001
Antimony (Sb)-Total	mg/L	0.0002
Arsenic (As)-Total	mg/L	0.0002
Barium (Ba)-Total	mg/L	0.0002
Boron (B)-Total	mg/L	0.01
Cadmium (Cd)-Total	mg/L	0.00055
Calcium (Ca)-Total	mg/L	0.01
Cesium (Cs)-Total	mg/L	0.0001
Chromium (Cr)-Total	mg/L	0.0157
Copper (Cu)-Total	mg/L	0.0018
Iron (Fe)-Total	mg/L	0.01
Lead (Pb)-Total	mg/L	0.0003
Magnesium (Mg)-Total	mg/L	0.01
Manganese (Mn)-Total	mg/L	0.0002
Phosphorus (P)-Total	mg/L	0.03
Selenium (Se)-Total	mg/L	0.001
Sodium (Na)-Total	mg/L	0.01
Strontium (Sr)-Total	mg/L	0.0002
Uranium (U)-Total	mg/L	0.0001
Zinc (Zn)-Total	mg/L	0.002
Ammonia, Total (as N)	mg/L	0.01
Nitrite (as N)	mg/L	0.001
Nitrate (as N)	mg/L	0.01
pH	pH units	0.1
Sulfate (SO4)	mg/L	0.5
Total Dissolved Solids	mg/L	5
Turbidity	NTU	0.01
Transmittance, UV (254 nm)	% T	1

- E7.2 Item 52, Bromate shall consist of:
- (a) consist of approximately four (4) tests annually;
  - (b) have tests performed to include the following parameters:

Item 52	BROMATE IN WATER	
Parameters	Units	MDL
Bromate	mg/L	0.005

- E7.3 Item 53, Surcharge fee for rush analysis shall:
- (a) consist of the unit cost for rush analysis of any sample(s) tested under items E7.

**E8. SECTION F (SCHEDULE B, INDUSTRIAL WASTE & SCHEDULE D, LAND DRAINAGE)**

E8.1 Item 54, Total Metals in industrial wastewater shall:

- (a) be tested as a whole;
- (b) consist of approximately one (1) sample annually;
- (c) have tests performed to include at least the following parameters:

<b>Item 54</b>	<b>Total Metals, Industrial Wastewater</b>	
<b>Parameters</b>	<b>Units</b>	<b>MDL</b>
Aluminum	mg/L	1.0
Antimony	mg/L	1.0
Arsenic	mg/L	0.5
Cadmium	mg/L	0.4
Chromium	mg/L	1.0
Cobalt	mg/L	1.0
Copper	mg/L	1.0
Lead	mg/L	0.5
Manganese	mg/L	1.0
Molybdenum	mg/L	1.0
Nickel	mg/L	1.0
Selenium	mg/L	0.5
Silver	mg/L	1.0
Tin	mg/L	1.0
Titanium	mg/L	1.0
Zinc	mg/L	1.0

E8.2 Item 55, Total Mercury in Industrial Wastewater shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameter:

<b>Item 55</b>	<b>Total Mercury, Industrial Wastewater</b>	
<b>Parameters</b>	<b>Units</b>	<b>MDL</b>
Total Mercury	mg/L	0.005

E8.3 Item 56, Chromium, Hexavalent in Industrial Wastewater shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameter:

<b>Item 56</b>	<b>Chromium Hexavalent, Industrial Wastewater</b>	
<b>Parameters</b>	<b>Units</b>	<b>MDL</b>
Chromium Hexavalent	mg/L	1.0

E8.4 Item 57, Total Cyanide in Industrial Wastewater shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameter:

<b>Item 57</b>	<b>Total Cyanide, Industrial Wastewater</b>	
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Parameters	Units	MDL
Total Cyanide	mg/L	1.0

E8.5 Item 58, Biochemical Oxygen Demand in Industrial Wastewater shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameter:

Item 58	Biochemical Oxygen Demand, Industrial Wastewater	
Parameters	Units	MDL
Biochemical Oxygen Demand	mg/L	3.0

E8.6 Item 59, Total Suspended Solids in Industrial Wastewater shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameter:

Item 59	Total Suspended Solids, Industrial Wastewater	
Parameters	Units	MDL
Total Suspended Solids	mg/L	4.0

E8.7 Item 60, Fluoride in Industrial Wastewater shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameter:

Item 60	Fluoride, Industrial Wastewater	
Parameters	Units	MDL
Fluoride	mg/L	1.0

E8.8 Item 61, Total Nitrogen in Industrial Wastewater shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameter:

Item 61	Total Nitrogen, Industrial Wastewater	
Parameters	Units	MDL
Total Nitrogen	mg/L	1.0

E8.9 Item 62, Total Phosphorus in Industrial Wastewater shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameter:

Item 62	Total Phosphorus, Industrial Wastewater	
Parameters	Units	MDL
Total Phosphorus	mg/L	1.0

E8.10 Item 63, Total Sulphate in Industrial Wastewater shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameter:

Item 63	Total Sulphate, Industrial Wastewater	
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Parameters	Units	MDL
Total Sulphate	mg/L	5.0

- E8.11 Item 64, Total Sulphide in Industrial Wastewater shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the following parameter:

Item 64	Total Sulphide, Industrial Wastewater	
Parameters	Units	MDL
Total Sulphide	mg/L	0.5

- E8.12 Item 65, Organochlorine Pesticides in Industrial Wastewater shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the following parameter:

Item 65	Organochlorine Pesticides, Industrial Wastewater	
Parameters	Units	MDL
Aldrin/Dieldrin	mg/L	0.0001
Chlordane (cis plus trans isomers)	mg/L	0.01
DDT	mg/L	0.00005
Hexachlorocyclo-hexane (Lindane)	mg/L	0.05
Mirex	mg/L	0.05
Hexachlorobenzene	mg/L	0.00005

- E8.13 Item 66, Total Polychlorinated Biphenols (PCBs) in Industrial Wastewater shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the following parameter:

Item 66	Total Polychlorinated Biphenols (PCBs), Industrial Wastewater	
Parameters	Units	MDL
Total Polychlorinated biphenols (PCBs)	mg/L	0.0005

- E8.14 Item 67, Volatile Organic Compounds in Industrial Wastewater shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the following parameter:

Item 67	Volatile Organic Compounds, Industrial Wastewater	
Parameters	Units	MDL
Benzene	mg/L	0.01
1,1,2,2 Tetrachloroethane	mg/L	0.7
1,2-dichlorobenzene	mg/L	0.01
1,4-dichlorobenzene	mg/L	0.01
Cis-1,2-dichloroethylene	mg/L	1.0
Ethyl benzene	mg/L	0.01
Methylene chloride	mg/L	1.0
Tetrachloro-ethylene	mg/L	0.5
Toluene	mg/L	0.01
Trichloroethylene	mg/L	0.1
Total Xylenes	mg/L	0.5

- E8.15 Item 68, 3,3-Dichlorobenzidine in Industrial Wastewater shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the following parameter:

Item 68	3,3-Dichlorobenzidine, Industrial Wastewater	
Parameters	Units	MDL
3,3-Dichlorobenzidine	mg/L	0.001

- E8.16 Item 69, Pentachlorophenol (PCP) in Industrial Wastewater shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the following parameter:

Item 69	Pentachlorophenol (PCP) in Industrial Wastewater	
Parameters	Units	MDL
Pentachlorophenol (PCP)	mg/L	0.005

- E8.17 Item 70, Total Polycyclic Aromatic Hydrocarbons (PAHs) in Industrial Wastewater shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the total of the following parameters: acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, 1-methylnaphthalene, 2-methylnaphthalene, naphthalene, phenanthrene, and pyrene.
  - (c) Report the parameters in E8.18(b) as the following;

Item 70	Total Polycyclic Aromatic Hydrocarbons (PAHs) in Industrial Wastewater	
Parameters	Units	MDL
Total Polycyclic Aromatic Hydrocarbons (PAHs)	mg/L	0.0005

- E8.18 Item 71, Nonylphenol and Nonylphenol Ethoxylates in Industrial Wastewater shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the following parameter:

Item 71	Nonylphenol and Nonylphenol Ethoxylates in Industrial Wastewater	
Parameters	Units	MDL
Nonylphenol	mg/L	0.01
Nonylphenol Ethoxylates	mg/L	0.1

- E8.19 Item 72, Total Phenolics (4AAP) in Industrial Wastewater shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the following parameter:

Item 72	Total Phenolics (4AAP), Industrial Wastewater	
Parameters	Units	MDL
Total Phenolics (4AAP)	mg/L	0.5

- E8.20 Item 73, Total Oil and Grease in Industrial Wastewater shall:
- (a) consist of approximately one (1) sample annually;

- (b) have tests performed to include the following parameter:

Item 73	Total Oil and Grease, Industrial Wastewater	
Parameters	Units	MDL
Animal or Vegetable	mg/L	1.0
Mineral or Synthetic	mg/L	1.0
Total Oil and Grease	mg/L	1.0

- E8.21 Item 74, Hydrocarbons in Industrial Wastewater shall:

- (a) consist of approximately one (1) sample annually;  
 (b) have tests performed to include the following parameter:

Item 74	Hydrocarbons, Industrial Wastewater	
Parameters	Units	MDL
Total Purgeable Hydrocarbons, C6-C10	mg/L	1.0
Total Extractable Hydrocarbons (TEH), C11-C30+	mg/L	1.0

- E8.22 Item 75, Schedule B Testing Complete shall:

- (a) consist of a complete set of tests to include items 54 to 74;  
 (b) consist of approximately one hundred (100) sample annually.

- E8.23 Item 76, Escherichia Coliform (E. Coli) in Land Drainage shall:

- (a) consist of approximately one (1) sample annually;  
 (b) have tests performed to include the following parameter;  
 (c) the high range (maximum reported value) shall be around one million, reported as "greater than" >1,000,000;  
 (d) have tests to include the following parameter:

Item 76	ESCHERICIA COLIFORM IN WASTEWATER	
Parameters	Units	MDL
Escherichia Coliform by MPNU to endpoint	MPNU/100 mL	<3

- E8.24 Item 77, Ammonia in Land Drainage shall:

- (a) consist of approximately one (1) sample annually;  
 (b) have tests performed to include the following parameter:

Item 77	Ammonia by colour, Land Drainage Wastewater	
Parameters	Units	MDL
Ammonia, Total (as N)	mg/L	0.01
Ammonia, un-ionized	mg/L	0.01

- E8.25 Item 78, Biochemical Oxygen Demand in Land Drainage shall:

- (a) consist of approximately one (1) sample annually;  
 (b) have tests performed to include the following parameter:

Item 78	Biochemical Oxygen Demand, Land Drainage Wastewater	
Parameters	Units	MDL
Biochemical Oxygen Demand	mg/L	3

- E8.26 Item 79, Chromium, Hexavalent in Land Drainage shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the following parameter:

Item 79	Chromium, Hexavalent, Land Drainage Wastewater	
Parameters	Units	MDL
Chromium, Hexavalent	mg/L	0.005

- E8.27 Item 80, Cyanide, Weak Acid Dissociable in Land Drainage shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the following parameter:

Item 80	Cyanide, Weak Acid Dissociable, Land Drainage Wastewater	
Parameters	Units	MDL
Cyanide, Weak Acid Diss	mg/L	0.002

- E8.28 Item 81, Extractables in Land Drainage shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the following parameter:

Item 81	Extractables, Land Drainage Wastewater	
Parameters	Units	MDL
1,2-Dichlorobenzene	mg/L	0.002
1,4-Dichlorobenzene	mg/L	0.003
3,3'-Dichlorobenzidine	mg/L	0.0004
Di-n-butylphthalate	mg/L	0.008
Bis(2-ethylhexyl)phthalate	mg/L	0.004
Hexachlorobenzene	mg/L	0.00002
Pentachlorophenol	mg/L	0.001

- E8.29 Item 82, Total Mercury in Land Drainage shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the following parameter:

Item 82	Mercury Total, Land Drainage Wastewater	
Parameters	Units	MDL
Mercury (Hg)-Total	mg/L	0.0002

- E8.30 Item 83, Nonylphenols and Ethoxylates in Land Drainage shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the following parameter:

Item 83	Nonylphenols and Ethoxylates, Land Drainage Wastewater	
Parameters	Units	MDL
Nonylphenol	mg/L	0.0005
Total Nonylphenol Ethoxylates	mg/L	0.005

- E8.31 Item 84, Pesticides in Land Drainage shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the following parameter:

Item 84	Pesticides, OC, Low Level, Land Drainage Wastewater	
Parameters	Units	MDL
Aldrin + Dieldrin	mg/L	0.00005
a-Chlordane (cis plus trans isomers)	mg/L	0.02
DDT	mg/L	0.00002
Hexachlorocyclohexane (Lindane)	mg/L	0.01
Mirex	mg/L	0.01

- E8.32 Item 85, Phenols in Land Drainage shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the following parameter:

Item 85	Phenols (4AAP), Land Drainage Wastewater	
Parameters	Units	MDL
Phenols (4AAP)	mg/L	0.001

- E8.33 Item 86, Phosphorus in Land Drainage shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the following parameter:

Item 86	Phosphorus, Total, Land Drainage Wastewater	
Parameters	Units	MDL
Phosphorus (P)-Total	mg/L	0.01

- E8.34 Item 87; Total Polycyclic Aromatic Hydrocarbons (PAHs) in Land Drainage shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the total of the following parameters: acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, 1-methylnaphthalene, 2-methylnaphthalene, naphthalene, phenanthrene, and pyrene.
  - (c) Report the parameters listed in E8.36(b) as;

Item 87	Total Polycyclic Aromatic Hydrocarbons (PAHs) in Land Drainage Wastewater	
Parameters	Units	MDL
Total Polycyclic Aromatic Hydrocarbons (PAHs)	mg/L	0.001

- E8.35 Item 88, Total Metals in Land Drainage shall:
- (a) consist of approximately one (1) sample annually;
  - (b) have tests performed to include the following parameter:

Item 88	Total Metals, Land Drainage Wastewater	
Parameters	Units	MDL
Arsenic (As)-Total	mg/L	0.01

Cadmium (Cd)-Total	mg/L	0.004
Chromium (Cr)-Total	mg/L	0.01
Copper (Cu)-Total	mg/L	0.02
Lead (Pb)-Total	mg/L	0.04
Manganese (Mn)-Total	mg/L	0.1
Nickel (Ni)-Total	mg/L	0.04
Selenium (Se)-Total	mg/L	0.01
Silver (Ag)-Total	mg/L	0.02
Zinc (Zn)-Total	mg/L	0.02

E8.36 Item 89, Total Polychlorinated Biphenyls in Land Drainage shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameter:

<b>Item 89</b>	<b>Total Polychlorinated Biphenyls (PCBs), Land Drainage Wastewater</b>	
<b>Parameters</b>	<b>Units</b>	<b>MDL</b>
Total Polychlorinated Biphenyls	mg/L	0.0002

E8.37 Item 90, Total Suspended Solids in Land Drainage shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameter:

<b>Item 90</b>	<b>Total Suspended Solids, Land Drainage Wastewater</b>	
<b>Parameters</b>	<b>Units</b>	<b>MDL</b>
Total Suspended Solids	mg/L	4

E8.38 Item 91, VOC in Land Drainage shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameter:

<b>Item 91</b>	<b>VOC, Land Drainage Wastewater</b>	
<b>Parameters</b>	<b>Units</b>	<b>MDL</b>
Benzene	mg/L	0.001
cis-1,2-Dichloroethene	mg/L	0.002
trans-1,3-Dichloropropene	mg/L	0.002
Ethylbenzene	mg/L	0.001
Methylene Chloride	mg/L	0.002
1,1,2,2-Tetrachloroethane	mg/L	0.005
Tetrachloroethene	mg/L	0.002
Toluene	mg/L	0.001
Trichloroethene	mg/L	0.004
Xylenes (total)	mg/L	0.002

E8.39 Item 92, Total Oil and Grease in Land Drainage Wastewater shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameter:

<b>Item 92</b>	<b>Total Oil and Grease, Land Drainage Wastewater</b>	
<b>Parameters</b>	<b>Units</b>	<b>MDL</b>

Animal or Vegetable	mg/L	1.0
Mineral or Synthetic	mg/L	1.0
Total Oil and Grease	mg/L	1.0

E8.40 Item 93, Hydrocarbons in Land Drainage Wastewater shall:

- (a) consist of approximately one (1) sample annually;
- (b) have tests performed to include the following parameter:

Item 93	Hydrocarbons, Land Drainage Wastewater	
Parameters	Units	MDL
Total Purgeable Hydrocarbons, C6-C10	mg/L	1.0
Total Extractable Hydrocarbons (TEH), C11-C30+	mg/L	1.0

E8.41 Item 94, Schedule D Testing Complete shall:

- (a) consist of a complete set of tests to include items 76 to 93;
- (b) consist of approximately fifty (50) sample annually.

E8.42 Item 95, Surcharge fee for rush analysis shall:

- (a) consist of the unit cost for rush analysis of any sample tested under items E8.

**E9. TURN AROUND TIME**

E9.1 The Turn Around Time shall be;

- (a) Based on the data that the samples were received (at the testing laboratory) and the reporting date.
- (b) Fulfilled by submitting an official report or preliminary report accordance with the specification outlined under E2.2 to E2.9.

E9.2 The Contractor shall not exceed the “extraction time”, “hold time” or “analysis time” written in their own standard operating procedure regardless of the listed Turn-around Times.

Testing Description	Spec. Ref.	Routine Turn-around Time (Calendar Days)	Rush Turn-around Time (Calendar Days)
<b>SECTION A (Water)</b>			
Taste and Odour Compounds in water	E3.1	21	10
Volatile Organic Compounds in water	E3.2	21	10
NDMA in water	E3.3	21	10
Microcystin LR in water	E3.4	21	10
Total Mercury in water	E3.5	21	2
COW Test #12 (Pesticides) in water	E3.6	21	14
Chromium, Hexavalent in water	E3.7	21	3
Perchlorate in water	E3.8	21	10
Total Metals in water	E3.9	21	5
Total Kjeldahl Nitrogen in water	E3.10	30	14
Total Phosphorus in water	E3.11	30	14

Total Reactive Phosphorus in water	E3.12	30	14
<b>SECTION B (Wastewater)</b>			
Fecal Coliform in wastewater	E4.1	7	NA
Fecal Coliform in wastewater to true endpoint	E4.2	7	NA
Fecal Coliform in wastewater by Quanti-Tray	E4.3	3	NA
Fecal Coliform in wastewater to true endpoint by Quanti-Tray	E4.4	3	NA
Escherichia Coliform in wastewater	E4.5	7	NA
Escherichia Coliform in wastewater to true end point	E4.6	7	NA
Total & Escherichia Coliforms in wastewater by Quanti-Tray	E4.7	3	NA
Total & Escherichia Coliforms in wastewater to true endpoint Quanti-Tray	E4.8	3	NA
Total Coliform in wastewater	E4.9	7	NA
Total Mercury in wastewater	E4.10	21	2
Total Mercury in Dewatered Sludge	E4.11	21	10
Total Organic Carbon in Dewatered Sludge	E4.12	21	10
Moisture in Dewatered Sludge	E4.13	21	10
Total Nitrogen in wastewater	E4.14	7	3
Total Organic Carbon in wastewater	E4.15	7	3
Dissolved Organic Carbon in wastewater	E4.16	7	3
Ammonia in wastewater	E4.17	7	3
Total Metals in wastewater	E4.18	21	10
<b>SECTION C (Schedule A, Wastewater)</b>			
Total Metals in wastewater	E5.1	30	14
Miscellaneous Compounds in wastewater	E5.2	30	14
Volatile Organic Compounds in wastewater	E5.3	30	14
Target Compounds (by GC/MS) in wastewater	E5.4	30	14
Phenoxyacid Herbicides (by GC/MS) in wastewater	E5.5	30	14
Organochlorine Pesticides in wastewater	E5.6	30	14
Polychlorinated Biphenyls (PCBs) in wastewater	E5.7	30	14
PCDD (Dioxins) and PCDF (Furans) in wastewater	E5.8	30	14
EPA 8270 Extractables in wastewater	E5.9	30	14
Nonylphenols and Nonylphenol Ethoxylates in wastewater	E5.10	30	14
Schedule A Testing (Complete set, items 33 to 42)	E5.11	30	14
Trout Bioassay-Pass/Fail in wastewater	E5.12	14	NA
Trout Bioassay-Pass/Fail with pH Stabilization in wastewater	E5.13	14	NA
<b>SECTION D (Giardia &amp; Cryptosporidium)</b>			
Testing of Giardia & Cryptosporidium in water	E6.1	14	10
Testing of Giardia & Cryptosporidium in wastewater	E6.2	14	10
Filta-Max Filter Modules (delivery)	E6.3	7	3
<b>SECTION D (REGULATORY TESTING, Water)</b>			
Manitoba Conservation Test 54 PWS (General Chemistry)	E7.1	20	10
Bromate	E7.2	20	10
<b>SECTION E (Schedule B, Industrial Waste &amp; Schedule D, Land Drainage)</b>			
Total Metals in Industrial Wastewater	E8.1	30	14

Total Mercury in Industrial Wastewater	E8.2	30	14
Chromium (hexavalent) in Industrial Wastewater	E8.3	30	14
Total Cyanide in Industrial Wastewater	E8.4	30	14
Biochemical Oxygen Demand in Industrial Wastewater	E8.5	30	14
Total Suspended Solids in Industrial Wastewater	E8.6	30	14
Fluoride in Industrial Wastewater	E8.7	30	14
Total Nitrogen in Industrial Wastewater	E8.8	30	14
Total Phosphorus in Industrial Wastewater	E8.9	30	14
Total Sulphate in Industrial Wastewater	E8.10	30	14
Total Sulphide in Industrial Wastewater	E8.11	30	14
Organochlorine Pesticides in Industrial Wastewater	E8.12	30	14
Total Polychlorinated Biphenols (PCBs) in Industrial Wastewater	E8.13	30	14
Volatile Organic Compounds in Industrial Wastewater	E8.14	30	14
3,3-Dichlorobenzidine in Industrial Wastewater	E8.15	30	14
Pentachlorophenol (PCP) in Industrial Wastewater	E8.16	30	14
Total Polycyclic aromatic hydrocarbons (PAHs) in Industrial Wastewater	E8.17	30	14
Nonylphenol and Nonylphenol Ethoxylates in Industrial Wastewater	E8.18	30	14
Total Phenolics (4AAP) in Industrial Wastewater	E8.19	30	14
Oil and Grease in Industrial Wastewater	E8.20	30	14
Hydrocarbons in Industrial Wastewater	E8.21	30	14
Schedule B Testing (Complete set, items 54 to 74)	E8.22	30	14
Escherichia Coliform in Land Drainage Wastewater	E8.23	7	NA
Ammonia in Land Drainage Wastewater	E8.24	30	14
Biochemical Oxygen Demand in Land Drainage Wastewater	E8.25	30	14
Chromium (hexavalent) in Land Drainage Wastewater	E8.26	30	14
Total Cyanide in Land Drainage Wastewater	E8.27	30	14
Extractables in Land Drainage Wastewater	E8.28	30	14
Total Mercury in Land Drainage Wastewater	E8.29	30	14
Nonylphenol and Nonylphenol Ethoxylates in Land Drainage Wastewater	E8.30	30	14
Organochlorine Pesticides in Land Drainage Wastewater	E8.31	30	14
Phenols (4AAP) in Land Drainage Wastewater	E8.32	30	14
Total Phosphorus in Land Drainage Wastewater	E8.33	30	14
Total Polycyclic aromatic hydrocarbons (PAHs) in Land Drainage Wastewater	E8.34	30	14
Total Metals in Land Drainage Wastewater	E8.35	30	14
Total Polychlorinated Biphenols (PCBs) in Land Drainage Wastewater	E8.36	30	14
Total Suspended Solids in Land Drainage Wastewater	E8.37	30	14
Volatile Organic Compounds in Land Drainage Wastewater	E8.38	30	14
Oil and Grease in Land Drainage Wastewater	E8.39	30	14
Hydrocarbons in in Land Drainage Wastewater	E8.40	30	14
Schedule D Testing (Complete set, 76 to 93)	E8.41	30	14

## APPENDIX 1

Table on Accreditation

ITEM NO.	DESCRIPTION	SPEC. REF.	Accredited for Parameter required (Yes/No)	If No, Industry Accreditation possible (Yes/No)	Comment
<b>SECTION A (Water)</b>		E3			
1.	Taste and Odour Compounds in water	E3.1			
2.	Volatile Organic Compounds in water	E3.2			
3.	NDMA in water	E3.3			
4.	Microcystin LR in water	E3.4			
5.	Total Mercury in water	E3.5			
6.	COW Test #12 (Pesticides) in water	E3.6			
7.	Chromium, Hexavalent in water	E3.7			
8.	Perchlorate in water	E3.8			
9.	Total Metals in water	E3.9			
10.	Total Kjeldahl Nitrogen in water	E3.10			
11.	Total Phosphorus in water	E3.11			
12.	Total Reactive Phosphorus in water	E3.12			
<b>SECTION B (Wastewater)</b>		E4			
14.	Fecal Coliform in wastewater	E4.1			
15.	Fecal Coliform in wastewater to true endpoint	E4.2			
16.	Fecal Coliform in wastewater by Quanti-Tray	E4.3			
17.	Fecal Coliform in wastewater to true endpoint by Quanti-Tray	E4.4			
18.	Escherichia Coliform in wastewater	E4.5			
19.	Escherichia Coliform in wastewater to true end point	E4.6			
20.	Total & Escherichia Coliforms in wastewater by Quanti-Tray	E4.7			
21.	Total & Escherichia Coliforms in wastewater to true endpoint Quanti-Tray	E4.8			
22.	Total Coliform in wastewater	E4.9			
23.	Total Mercury in wastewater	E4.10			
24.	Total Mercury in Dewatered Sludge	E4.11			
25.	Total Organic Carbon in Dewatered Sludge	E4.12			
26.	Moisture in Dewatered Sludge	E4.13			
27.	Total Nitrogen in wastewater	E4.14			

ITEM NO.	DESCRIPTION	SPEC. REF.	Accredited for Parameter required (Yes/No)	If No, Industry Accreditation possible (Yes/No)	Comment
28.	Total Organic Carbon in wastewater	E4.15			
29.	Dissolved Organic Carbon in wastewater	E4.16			
30.	Ammonia in wastewater	E4.17			
31.	Total Metals in wastewater	E4.18			
<b>SECTION C (Schedule A, Wastewater)</b>		E5			
33.	Total Metals in wastewater	E5.1			
34.	Miscellaneous Compounds in wastewater	E5.2			
35.	Volatile Organic Compounds in wastewater	E5.3			
36.	Target Compounds (by GC/MS) in wastewater	E5.4			
37.	Phenoxyacid Herbicides (by GC/MS) in wastewater	E5.5			
38.	Organochlorine Pesticides in wastewater	E5.6			
39.	Polychlorinated Biphenyls (PCBs) in wastewater	E5.7			
40.	PCDD (Dioxins) and PCDF (Furans) in wastewater	E5.8			
41.	EPA 8270 Extractables in wastewater	E5.9			
42.	Nonylphenols and Nonylphenol Ethoxylates in wastewater	E5.10			
44.	Trout Bioassay-Pass/Fail in wastewater	E5.12			
45.	Trout Bioassay-Pass/Fail with pH Stabilization in wastewater	E5.13			
<b>SECTION D (Giardia &amp; Cryptosporidium)</b>		E6			
47.	Testing of Giardia & Cryptosporidium in water	E6.1			
48.	Testing of Giardia & Cryptosporidium in wastewater	E6.2			
<b>SECTION D (REGULATORY TESTING, Water)</b>		E7			
51.	Manitoba Conservation Test 54 PWS (General Chemistry)	E7.1			
52.	Bromate	E7.2			
<b>SECTION E (Schedule B, Industrial Waste &amp; Schedule D, Land Drainage)</b>		E8			
54.	Total Metals in Industrial Wastewater	E8.1			
55.	Total Mercury in Industrial Wastewater	E8.2			
56.	Chromium (hexavalent) in Industrial Wastewater	E8.3			
57.	Total Cyanide in Industrial Wastewater	E8.4			
58.	Biochemical Oxygen Demand in Industrial Wastewater	E8.5			

ITEM NO.	DESCRIPTION	SPEC. REF.	Accredited for Parameter required (Yes/No)	If No, Industry Accreditation possible (Yes/No)	Comment
59.	Total Suspended Solids in Industrial Wastewater	E8.6			
60.	Fluoride in Industrial Wastewater	E8.7			
61.	Total Nitrogen in Industrial Wastewater	E8.8			
62.	Total Phosphorus in Industrial Wastewater	E8.9			
63.	Total Sulphate in Industrial Wastewater	E8.10			
64.	Total Sulphide in Industrial Wastewater	E8.11			
65.	Organochlorine Pesticides in Industrial Wastewater	E8.12			
66.	Total Polychlorinated Biphenols (PCBs) in Industrial Wastewater	E8.13			
67.	Volatile Organic Compounds in Industrial Wastewater	E8.14			
68.	3,3-Dichlorobenzidine in Industrial Wastewater	E8.15			
69.	Pentachlorophenol (PCP) in Industrial Wastewater	E8.16			
70.	Total Polycyclic aromatic hydrocarbons (PAHs) in Industrial Wastewater	E8.17			
71.	Nonylphenol and Nonylphenol Ethoxylates in Industrial Wastewater	E8.18			
72.	Total Phenolics (4AAP) in Industrial Wastewater	E8.19			
73.	Oil and Grease in Industrial Wastewater	E8.20			
74.	Hydrocarbons in Industrial Wastewater	E8.21			
77.	Escherichia Coliform in Land Drainage Wastewater	E8.23			
78.	Ammonia in Land Drainage Wastewater	E8.24			
79.	Biochemical Oxygen Demand in Land Drainage Wastewater	E8.25			
80.	Chromium (hexavalent) in Land Drainage Wastewater	E8.26			
81.	Total Cyanide in Land Drainage Wastewater	E8.27			
82.	Extractables in Land Drainage Wastewater	E8.28			
83.	Total Mercury in Land Drainage Wastewater	E8.29			
84.	Nonylphenol and Nonylphenol Ethoxylates in Land Drainage Wastewater	E8.30			
85.	Organochlorine Pesticides in Land Drainage Wastewater	E8.31			
86.	Phenols (4AAP) in Land Drainage Wastewater	E8.32			
87.	Total Phosphorus in Land Drainage Wastewater	E8.33			
88.	Total Polycyclic aromatic hydrocarbons (PAHs) in Land Drainage Wastewater	E8.34			

ITEM NO.	DESCRIPTION	SPEC. REF.	Accredited for Parameter required (Yes/No)	If No, Industry Accreditation possible (Yes/No)	Comment
89.	Total Metals in Land Drainage Wastewater	E8.35			
90.	Total Polychlorinated Biphenols (PCBs) in Land Drainage Wastewater	E8.36			
91.	Total Suspended Solids in Land Drainage Wastewater	E8.37			
92.	Volatile Organic Compounds in Land Drainage Wastewater	E8.38			
93.	Oil and Grease in Land Drainage Wastewater	E8.39			
94.	Hydrocarbons in in Land Drainage Wastewater	E8.40			