



HISTORIC  
FRANKLIN  
TENNESSEE

ITEM #28  
BOMA  
09/13/2011

# MEMORANDUM

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## Memorandum

TO: Board Of Mayor and Aldermen

FROM: Eric Stuckey, City Administrator *Eric*

DATE: September 7, 2011

RE: Items approved by City Administrator  
On behalf of the Board of Mayor and Aldermen

Through the authority granted by the Board of Mayor and Aldermen, the following items of action were approved by me on your behalf:

- A. Report Of Sole-Source Purchase From CMI Equipment Of Nashville, TN In The Total Amount Of \$55,300.00 For One (1) Stainless Steel Hopper For A 2001 Schwarze A-7000 Street Sweeper, Said Part To Be Installed By The City For The Stormwater Division Of The Streets Department (\$58,000.00 Budgeted In 135-89530-43120 For Fiscal Year 2012.  
Joe York, Streets Director
- B. Professional Services Agreement (Contract 2011-0085) with Tetra Tech EM, Inc for Macroinvertebrate Stream Survey Sample Analysis and Data Reduction for a Lump Sum Fee of Four Thousand Four Hundred Ninety Dollars (\$4,490.00).  
Mark Hilty, Water Management Director

**CITY OF FRANKLIN, TENNESSEE  
PROFESSIONAL SERVICES AGREEMENT  
COF Contract No 2011-0085**

THIS PROFESSIONAL SERVICES AGREEMENT ("Agreement") is by and between the City of Franklin, Tennessee, hereinafter referenced as City, and **Tetra Tech EM, Inc.** hereinafter referenced as Consultant, who mutually agrees as follows:

**DECLARATIONS.** City desires to retain Consultant to provide analysis, related technical, and other services in connection with City's project hereinafter referenced as Project. The Project is described as follows:

**MACROINVERTEBRATE STREAM SURVEY SAMPLE ANALYSIS AND  
DATA REDUCTION**

1. **SCOPE OF SERVICES.** Consultant shall provide analysis and related technical services for the Project in accordance with the SCOPE OF SERVICES. The SCOPE OF SERVICES as found in **Attachment A** shall be considered as an integral part hereof.
2. Consultant shall receive payment for the sample analysis and data reduction services billed monthly for a Lump Sum Fee of **Four Thousand Four Hundred Ninety and No/100 Dollars (\$4,490.00)** for services.
3. In event of a conflict between this Agreement and the attached document(s), this Agreement shall supersede conflicting terms and conditions.

The City Administrator, under Authority granted by the Board of Mayor and Aldermen, Approved this Agreement on the 18<sup>th</sup> Day of AUGUST 2011.

BY: *Amy M. Colley*  
Consultant's Signature  
TITLE: Biologist/Project Mgr  
Date: 8-16-11

BY: *Eric S. Stuckey*  
Eric S. Stuckey  
City Administrator  
Date: 8-18-2011

## TERMS AND CONDITIONS FOR PROFESSIONAL SERVICES

### ARTICLE 1. SERVICES. Consultant will:

- 1.1 Act for City in a professional manner, using that degree of care and skill ordinarily exercised by and consistent with standards of competent consultants using the standards in the industry:
- 1.2 Consider all reports to be confidential and distribute copies of the same only to those persons specifically designated by the City.
- 1.3 Perform all services under the general direction of a senior professional employee, licensed and/or registered in the State of Tennessee, when appropriate.
- 1.4 Retain pertinent records relating to the services performed for a period of seven (7) years following the completion of the work; during this period the records shall be available for review by City at all reasonable times.

### ARTICLE 2. CITY'S RESPONSIBILITIES. City, or its authorized representative, will:

- 2.1 Provide Consultant with all information regarding the Project, which is available to, or reasonably obtainable by, the City.
- 2.2 Furnish right-of-entry onto the Project site for Consultant's necessary field studies and surveys. Consultant will endeavor to restore the site to its original condition and shall remain solely liable for all damages, costs and expenses, including reasonable attorneys' fees, for failure to make such restoration.
- 2.3 Designate, in writing, the sole Project representative to coordinate with and direct the Consultant, including all contact information.
- 2.4 Guarantee to Consultant that it has the legal capacity to enter into this contract and that sufficient monies are available to fund Consultant's compensation.

### ARTICLE 3. GENERAL CONDITIONS.

- 3.1 Consultant, by the performance of services covered hereunder, does not in any way assume, abridge or abrogate any of those duties, responsibilities or authorities customarily vested in other professionals or agencies participating in the Project.
- 3.2 Consultant shall be responsible for the acts or omissions of any party involved in concurrent or subsequent phases of the PROJECT acting upon written instruction issued by the Consultant.
- 3.3 Neither City nor Consultant may assign or transfer its duties or interest in this Agreement without written consent of the other party. However, nothing in this Article shall prevent Consultant from

engaging independent consultants, associates, and subcontractors to assist in the performance of the Services at Consultant's cost.

3.4 ALLOCATION OF RISK AND LIABILITY; GENERAL. Considering the potential liabilities that may exist during the performance of the services of this Agreement, the relative benefits and risks of the Project, and the Consultant's fee for the services rendered, and in consideration of the promises contained in this Agreement, the City and the Consultant agree to allocate and limit such liabilities in accordance with this paragraph.

3.5 INDEMNIFICATION. Consultant agrees to indemnify and hold City harmless from and against legal liability for all judgments, losses, damages, and expenses to the extent such judgments, losses, damages, or expenses are caused by Consultant's negligent act, error or omission in the performance of the services of this Agreement. In the event judgments, losses, damages, or expenses are caused by the joint or concurrent negligence of Consultant and City, they shall be borne by each party in proportion to its own negligence.

3.5.1 SURVIVAL. The terms and conditions of this paragraph shall survive completion of this services agreement.

3.6 LIMITATIONS OF RESPONSIBILITY. Consultant shall not be responsible for (a) construction means, methods, techniques, sequences, procedures, or safety precautions and programs in connection with the Project unless specifically undertaken in Attachment A, SCOPE OF SERVICES; (b) the failure of any contractor, subcontractor, Consultant, or other Project participant, not under contract to Consultant, to fulfill contractual responsibilities to City or to comply with federal, state, or local laws, regulations, and codes; or (c) procuring permits, certificates, and licenses required for any construction unless such procurement responsibilities are specifically assigned to Consultant in Attachment A, SCOPE OF SERVICES.

**ARTICLE 4. TERMINATION BY THE CITY.** The City may terminate this Agreement in accordance with the following terms and conditions:

4.1 Termination for Convenience. The City may, when in the interests of the City, terminate performance under this Agreement with the Consultant, in whole or in part, for the convenience of the City. The City shall give written notice of such termination to the Consultant specifying when termination becomes effective. The Consultant shall incur no further obligations in connection with the work so terminated, other than warranties and guarantees for completed work and installed equipment, and the Consultant shall stop work when such termination becomes effective. The Consultant shall also terminate

outstanding orders and subcontracts for the affected work. The Consultant shall settle the liabilities and claims arising out of the termination of subcontracts and orders. The City may direct the Consultant to assign the Consultant's right, title and interest under termination orders or subcontracts to the City or its designee. The Consultant shall transfer title and deliver to the City such completed or partially completed work and materials, equipment, parts, fixtures, information and Contract rights as the Consultant has in its possession or control. When terminated for convenience, the Consultant shall be compensated as follows:

- (1) The Consultant shall submit a termination claim to the City specifying the amounts due because of the termination for convenience together with costs, pricing or other data required by the City. If the Consultant fails to file a termination claim within one (1) year from the effective date of termination, the City shall pay the Consultant the amount the City deems the Consultant is due.
- (2) The City and the Consultant may agree to the compensation, if any, due to the Consultant hereunder.
- (3) Absent agreement to the amount due to the Consultant, the City shall pay the Consultant the following amounts:
  - (a) Contract costs for labor, materials, equipment and other services accepted under this Agreement;
  - (b) Reasonable costs incurred in preparing to perform and in performing the terminated portion of the work, and in terminating the Consultant's performance, plus a fair and reasonable allowance for direct job site overhead and earned profit thereon (such profit shall not include anticipated profit or consequential damages); provided however, that if it reasonably appears that the Consultant would have not profited or would have sustained a loss if the entire Agreement would have been completed, no profit shall be allowed or included and the amount of compensation shall be reduced to reflect the anticipated rate of loss, if any;

The total sum to be paid the Consultant under this Section shall not exceed the total Agreement Price, as properly adjusted, reduced by the amount of payments otherwise made, and shall in no event include duplication of payment.

- 4.2 Termination for Cause. If the Consultant does not perform the work, or any part thereof, in a timely manner, supply adequate labor, supervisory personnel or proper equipment or materials, or if it fails to timely discharge its obligations for labor, equipment and materials, or proceeds to disobey applicable law, or otherwise commits a violation of a material provision of this Agreement, then the City, in addition to any other rights it may have against the Consultant or others, may terminate the performance of the Consultant, in whole or in part at the City's sole option, and assume possession of the Project Plans and materials and may complete the work.

In such case, the Consultant shall not be paid further until the work is complete. After Completion has been achieved, if any portion of the Contract Price, as it may be modified hereunder, remains after the cost to the City of completing the work, including all costs and expenses of every nature incurred, has been deducted by the City, such remainder shall belong to the Consultant. Otherwise, the Consultant shall pay and make whole the City for such cost. This obligation for payment shall survive the termination of the Agreement.

In the event the employment of the Consultant is terminated by the City for cause pursuant to this Section and it is subsequently determined by a Court of competent jurisdiction that such termination was without cause, such termination shall thereupon be deemed a Termination for Convenience under this Section and the provisions of Section 4.1 shall apply.

- 4.3 Termination for Non-Appropriation. The City may also terminate this Agreement, in whole or in part, for non-appropriation of sufficient funds to complete or partially complete the Project, regardless of the source of such funds, and such termination shall be on the terms of Section 4.1.
- 4.4 The City's rights under this Section shall be in addition to those contained elsewhere herein or provided by law.

**ARTICLE 5. SCOPE OF SERVICES.** Consultant shall provide the Services as described in Attachment A, SCOPE OF SERVICES.

5.1 By mutual agreement, this contract and scope can be amended by the parties. The scope and fee for any additional tasks or services under such amendment shall be mutually negotiated and agreed to in writing prior to beginning such additional tasks or services.

5.2 **ENVIRONMENTAL RESPONSIBILITY.**

Where drilling/sampling services are involved, the samples obtained from the Project site are the property of the City. Should any of these samples be recognized by the Consultant to be contaminated, the City shall remove them from the Consultant's custody and transport them to a disposal site, all in accordance with applicable government statutes, ordinances, and regulations. For all other samples, the Consultant shall retain them for a sixty (60)-day period following the submission of the drilling/sampling report unless the City directs otherwise; thereafter, the Consultant shall discard the samples in accordance with all federal, state and local laws.

**ARTICLE 6. SCHEDULE.**

6.1 **TIME OF THE ESSENCE.** The parties agree that TIME IS OF THE ESSENCE with respect to the parties' performance of all provisions of the Agreement.

6.2 **FORCE MAJEURE.** Neither party will be liable to the other for any delay or failure to perform any of the services or obligations set forth in this Agreement due to causes beyond its reasonable control, and performance times will be considered extended for a period of time equivalent to the time lost because of such delay plus a reasonable period of time to allow the parties to recommence performance of their respective obligations hereunder. Should a circumstance of force majeure last more than ninety (90) days, either party may by written notice to the other terminate this Agreement. The term "force majeure" as used herein shall mean the following: acts of God; strikes, lockouts or other industrial disturbances; acts of public enemies; orders or restraints of any kind of the government of the United States or of the State or any of their departments, agencies or officials, or any civil or military authority; insurrections, riots, landslides, earthquakes, fires, storms, tornadoes, droughts, floods, explosions, breakage or accident to machinery, transmission pipes or canals; or any other cause or event not reasonably within the control of either party.

6.3 Should City request changes in the scope, extent, or character of the Project, the time of performance of Consultant's services as indicated in Attachment A shall be adjusted equitably.

## **ARTICLE 7. USE OF DOCUMENTS, DATA.**

7.1 All Documents, including, but not limited to, reports, drawings, specifications, and computer software prepared by Consultant pursuant to this Agreement are instruments of service in respect to the Project. Consultant shall retain an ownership and property interest therein (including the right of reuse at the discretion of the Consultant) whether or not the Project is completed.

7.1.1 **USE OF DATA SYSTEMS:** Ownership, property interests and proprietary rights in data systems used by Consultant do not extend to the data created by or supplied to Consultant by the City; all rights to that data (including derivative or hidden data such as metadata) shall vest solely in City at the moment of creation.

7.1.2 **DISCLOSURE OF DOCUMENTS/DATA.** City may be required to disclose documents or data under state or federal law. City shall notify Consultant if a request for data or documents has been made and shall give Consultant a reasonable opportunity under the circumstances to respond to the request by redacting proprietary or other confidential information. Consultant waives any right to confidentiality of any document, e-mail or file it fails to clearly mark on each page as confidential or proprietary. In exchange, Consultant agrees to indemnify, defend, and hold harmless City for any claims by third parties relating thereto or arising out of (i) the City's failure to disclose such documents or information required to be disclosed by law, or (ii) the City's release of documents as a result of City's reliance upon Consultant representation that materials supplied by Consultant (in full or redacted form) do not contain trade secrets or proprietary information, provided that the City impleads Consultant and Consultant assumes control over that claim.

7.2 City-furnished data that may be relied upon by Consultant is limited to the printed copies that are delivered to the Consultant pursuant to Article 2 of this Agreement. Any copyrighted electronic files furnished by City shall be used by Consultant only for the Project as described herein. City's posting or publication of such documents created by Consultant for City shall constitute fair use and shall not constitute an infringement of Consultant's copyright, if any.

7.3 Documents that may be relied upon by City are limited to the printed copies (also known as hard copies) that are signed or sealed by the Consultant. Files in electronic media format of text, data, graphics, or



of other types that are furnished by Consultant to City are only for convenience of City, unless the delivery of the Project in electronic media format has been dictated in Attachment A, SCOPE OF SERVICES. Any conclusion or information obtained or derived from electronic files provided for convenience will be at the user's sole risk.

- 7.4 Because data stored in electronic media format can deteriorate or be modified inadvertently or otherwise without authorization of the data's creator, the party receiving electronic files agrees that it will perform acceptance tests or procedures within 60 days, after which the receiving party shall be deemed to have accepted the data thus transferred. Any errors detected within the 60-day acceptance period will be corrected by the party delivering the electronic files. Unless stated otherwise herein, Consultant shall not be responsible to maintain documents stored in electronic media format after acceptance by City.
- 7.5 When transferring documents in electronic media format, Consultant makes no representations as to long term compatibility, usability, or readability, of documents resulting from the use of software application packages, operating systems, or computer hardware differing from that as required of, and used by, Consultant at the beginning of this Project.
- 7.6 City may make and retain copies of Documents for information and reference in connection with use on the Project by the City, or his authorized representative. Such Documents are not intended or represented to be suitable for reuse by City or others on extensions of the Project or on any other project. Any such reuse or modifications without written verification or adaptation by Consultant, as appropriate for the specific purpose intended, will be at City's sole risk and without liability or legal exposure to the Consultant or to Consultant's Consultants.
- 7.7 If there is a discrepancy between the electronic files and the hard copies, the hard copies govern.
- 7.8 Any verification or adaptation of the Documents for extensions of the Project or for any other project will entitle Consultant to further compensation at rates to be agreed upon by City and Consultant.

#### **ARTICLE 8. INSURANCE.**

- 8.1 During the performance of the Services under this Agreement, Consultant shall maintain the following minimum insurance:
- a) General Liability Insurance with a combined single limit of \$1,000,000 per occurrence and \$2,000,000 annual aggregate.
  - b) Automobile Liability Insurance with a combined single limit of \$1,000,000 for each person and \$1,000,000 for each accident.

- c) Workers' Compensation Insurance Coverage A in accordance with statutory requirements and Coverage B, Employer's Liability Insurance, with a limit of \$500,000 for each occurrence.
  - d) Professional Liability Insurance with a limit of \$1,000,000 annual aggregate.
- 8.2 Consultant shall add the City an additional insured on all policies.
- 8.3 Consultant shall, upon execution of this Agreement, furnish City certificates of insurance, which shall include a provision that such insurance shall not be canceled without at least thirty days' written notice to City.
- 8.4 No insurance, of whatever kind or type is to be considered as in any way limiting other parties' responsibility for damages resulting from their activities in the execution of the Project. City agrees to include, or cause to be included, in the Project's construction contract, such requirements for insurance coverage and performance bonds by the Project's construction contractor as City deems adequate to indemnify City, Consultant, and other concerned parties against claims for damages and to insure compliance of work performance and materials with Project requirements.

#### **ARTICLE 9. PAYMENT.**

- 9.1 City will pay Consultant for services and expenses in accordance with the Fee Schedule proposal submitted for the Project as part of the Scope Of Services. Consultant's invoices will be presented at the completion of the work or monthly and will be payable upon receipt. Payment is due upon presentation of invoice and is past due thirty (30) days from invoice date. City shall give prompt written notice of any disputed amount and shall pay the remaining amount.
- 9.2 Consultant shall be paid in full for all services under this Agreement, including City-authorized overruns of the Project budget or unforeseen need for Consultant's services exceeding the original Scope Of Services.
- 9.3 **TRAVEL; EXPENSES**  
The City shall reimburse reasonable expenses, including travel and meals, when specified in the Scope Of Services, but only in accordance with the City's Travel and Expense Policy and Procedures Manual. The maximum amount will be applied as of the date of travel and as listed in the per diem reimbursement rates on the "CONUS" website developed by the United States General Services Administration, located at [www.gsa.gov](http://www.gsa.gov) [click on 'per diem rates' under the 'etools' category].

#### **ARTICLE 10. MISCELLANEOUS PROVISIONS**

- 10.1 **EQUAL EMPLOYMENT OPPORTUNITY.** In connection with this Agreement and the Project, the City and the Consultant shall not discriminate against any employee or applicant for employment because of race, color, sex, national origin, disability or marital status. The City and Consultant will take affirmative action to ensure that contractor used for the Project does not discriminate against any employee and employees are treated during employment without regard to their race, age, religion, color, gender, national origin, disability or marital status. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination, rates of pay or other forms of compensation; and selection for training, including apprenticeship.
- 10.1.1 The Consultant shall insert the foregoing provision in all contracts relating to this Project.
- 10.2 **TITLE VI – CIVIL RIGHTS ACT OF 1964.** The City and the Consultant shall comply with all the requirements imposed by Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d), 49 C.F.R., Part 21, and related statutes and regulations.
- 10.2.1 The Consultant shall insert the foregoing provision in all contracts relating to this Project.
- 10.3 **NO THIRD PARTY RIGHTS CREATED.** City and Consultant each binds itself and its successors, executors, administrators, permitted assigns, legal representatives and, in the case of a partnership, its partners, to the other party to this Agreement and to their successors, executors, administrators, permitted assigns, legal representatives and partners of such other party in respect to all provisions of this Agreement. The Services provided for in this Agreement are for the sole use and benefit of City and Consultant. Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than the City and the Consultant.
- 10.4 **WARRANTIES/LIMITATION OF LIABILITY/WAIVER.** The City reserves all rights afforded to local governments under law for all general and implied warranties. The City does not waive any rights it may have to all remedies provided by law and therefore any attempt by Consultant to limit its liability shall be void and unenforceable.

**ARTICLE 11. EXTENT OF AGREEMENT:**

- 11.1 **APPLICABLE LAW/CHOICE OF FORUM AND VENUE.** This Agreement is made under and will be construed in accordance with the laws of the State of Tennessee without giving effect to that state's choice of law rules. The parties' choice of forum and venue shall be

exclusively in the courts of Williamson County, Tennessee. Any provision of this Agreement held to violate a law or regulation shall be deemed void, and all remaining provisions shall continue in force.

- 11.2 **ENTIRE AGREEMENT.** This Agreement, including these terms and conditions, represent the entire Agreement between City and Consultant for this Project and supersedes all prior negotiations, representations or agreements, written or oral. This Agreement may be amended only by written instrument signed by City and Consultant.

**ARTICLE 12. DISPUTE RESOLUTION, BREACH.**

- 12.1 If a dispute should arise relating to the performance of or payment for the services under this Agreement, the aggrieved party shall notify the other party of the dispute within a reasonable time after such dispute arises. During the pendency of any dispute, the parties shall continue diligently to fulfill their respective obligations hereunder. No arbitration or mediation shall be required as a condition precedent to filing any legal claim arising out of or relating to the Contract. No arbitration or mediation shall be binding.
- 12.2 **BREACH.** Upon deliberate breach of the Contract by either party, the non-breaching party shall be entitled to terminate the Contract with notice, with all of the remedies it would have in the event of termination, and may also have such other remedies as it may be entitled to in law or in equity.

**ARTICLE 13. SURVIVAL.**

The provisions contained in this Professional Services Agreement shall survive the completion of or any termination of the Contract, agreement or other document to which it may accompany or incorporate by reference or which subsequently may be modified, unless expressly excepted from this Article upon consent of both parties.

# Attachment A



TETRA TECH EM INC.

August 11, 2011

Ms. Crystal Bishop  
Stormwater Coordinator  
City of Franklin, Tennessee  
109 3<sup>rd</sup> Avenue South  
Franklin, Tennessee 37065

**Re: Proposal for Macroinvertebrate Stream Survey  
Sample Analysis and Data Reduction  
Franklin, Williamson County, Tennessee  
Tetra Tech Proposal Number:**

Dear Ms. Bishop:

Tetra Tech EM Inc. (Tetra Tech) is pleased to present this proposal to perform the Macroinvertebrate Stream Survey Sample Analysis and Data Reduction for the City of Franklin Stormwater Management Division. Included in this proposal is our understanding of the project, proposed scope of services, schedule, estimated costs, and procedures for authorization.

## **PROJECT INFORMATION**

The City of Franklin Stormwater Management Division plans to perform yearly macroinvertebrate stream sampling following protocols set forth in the State of Tennessee Department of Environment and Conservation (TDEC) *Quality System Standard Operating Procedure for Macroinvertebrate Stream Surveys, Revised October 2006* (QS-SOP) at nine locations in Williamson County. The City of Franklin personnel will collect and sort nine samples containing 200 +/- 20 percent organisms via the semi-quantitative kick sampling (SQ-KICK) method at each location. The City of Franklin will report the findings of the Macroinvertebrate Stream Survey Sample Analysis and Data Reduction to the TDEC in order to meet requirements for the City's Small Municipal Separate Stormwater Sewer System (MS4) NPDES General Permit.

## **SCOPE OF WORK**

The scope of work outlined in this proposal is based on information provided by Ms. Crystal Bishop, our knowledge of national and state stormwater regulations and permitting procedures, and our experience with similar projects. The tasks below will be completed following the TDEC QS-SOP protocol.

### **Task 1 – Macroinvertebrate Sample Analysis and Data Reduction**

Tetra Tech will use qualified personnel or subcontractors, as outlined in the TDEC QS-SOP, to perform the following tasks:

- Tetra Tech will use the habitat assessment sheets completed by The City of Franklin to calculate habitat parameters and assign a Total Habitat Score to each sampling location for comparison to the appropriate Regional Expectations for Individual Habitat Parameters (TDEC QS-SOP, Appendix A).
- Tetra Tech will use published information, interviews with appropriate State of Tennessee Officials, and knowledge of the region to assign a Stream Use Support Status for each sampling location.
- Tetra Tech will submit the macroinvertebrate samples (200 +/- 20 percent each) collected by the City of Franklin personnel under chain of custody to a qualified Tennessee laboratory for analysis. The organisms will be identified to genus, except *Acari*, *Nematoda*, *Hydra*, *Brachiobdellida*, immature *Tubificidae*, *Lumbriculidae*, and *Nematomorpha*. The samples will be maintained in preservative (80% ethanol) at the laboratory or at the Tetra Tech Nashville Office for a minimum of five years, if desired.
- Tetra Tech will perform data reduction of the macroinvertebrate samples for each sampling location by calculating a numerical value for each of the seven biometrics outlined in the TDEC QSSOP using taxa identified to the genus level, except as specified above. Tetra Tech will make a determination of biological condition based on the index scores for the appropriate bioregion and season (TDEC QS-SOP, Table 4).
- Tetra Tech will use geographic positioning system (GPS) points collected by The City of Franklin personnel to prepare a topographic map indicating the nine sampling locations. Tetra Tech will also prepare site layout maps for each sampling location using site sketches provided by The City of Franklin personnel.
- Tetra Tech will use the field parameters recorded by The City of Franklin personnel to prepare a table reporting the water quality results at each sampling location.
- Tetra Tech will use digital photographs taken by The City of Franklin personnel to compile a photographic documentation log.

## **Task 2 - Report Preparation**

The deliverable for this project will include a macroinvertebrate stream survey report and required maps, forms, and data sheets suitable for submittal to the TDEC. The report will include a summary of the project objectives, discussion of sampling locations and procedures, results and evaluation of the analysis performed; and our findings and conclusions. Appendices will include figures, tables, field logbooks, macroinvertebrate assessment sheets, habitat assessment sheets, stream survey sheets, and photographic documentation log.

A draft report will be submitted to The City of Franklin for their review. Following review and comment by The City of Franklin personnel, Tetra Tech will finalize the documents and provide two hard copies and one electronic copy of the final report and appendices to The City of Franklin. As per preference, The City of Franklin or Tetra Tech will submit the final report to the TDEC.

## ASSUMPTIONS

The following assumptions were used to develop this scope of work and cost estimate:

- The City of Franklin personnel will complete all field work, including macroinvertebrate sample collection, subsample sorting, completion of habitat assessment and stream survey sheets, and field parameter collection, following the TDEC QS-SOP.
- The City of Franklin personnel will use the SQ-KICK macroinvertebrate sampling method.
- The sample locations will meet the requirements for comparison to the biocriteria of the appropriate ecoregion reference database (TDEC QS-SOP, Appendix A). If the City of Franklin determines that upstream or watershed reference samples must be collected in order to meet TDEC QS-SOP requirements, additional macroinvertebrate analysis and sample reduction services may be required, which would require a change in the scope and budget of this proposal.
- The City of Franklin personnel will place all subsamples in appropriate containers and preserve them with 80 percent ethanol. The City of Franklin personnel will label and log each sample container following the TDEC QS-SOP.

## QUALITY ASSURANCE/QUALITY CONTROL

Quality Assurance/Quality Control (QA/QC) procedures to be followed during the execution of Macroinvertebrate Stream Survey Sample Analysis and Data Reduction activities recommended in this proposal will be performed in accordance with procedures and methodologies described in Tetra Tech Standard Operating Procedures (SOPs). Tetra Tech assumes that The City of Franklin will follow appropriate QA/QC procedures per the TDEC QS-SOP during their field activities.

Tetra Tech's potential project team for this project will include:

Amy Tolley, Biologist – Project Manager and Coordinator  
Dana Lingle, Ecologist  
Dave Scarboro, Environmental Scientist  
Caitlin Andersen, GIS/CAD Support

Resumes for the potential project team members are included in Attachment A.

## SCHEDULE

We can begin this project upon receiving your authorization to proceed. **It is anticipated that the report will be completed within three weeks of receipt of the macroinvertebrate samples previously described.** Should the schedule need to be expedited, please contact Tetra Tech immediately and we will make allowable arrangements necessary to complete the scope of work per the revised schedule, as requested. Please note that costs may increase should the schedule need to be expedited, and a surcharge for laboratory analysis may apply.

## **COST**

Tetra Tech proposes to conduct the above scope of services for a lump sum amount of **\$4,490**. These estimated costs reflect our understanding of the scope of services to be performed, as previously described. This cost does not include additional out of scope services, either required or requested. However, these additional services can be accomplished on a time and materials basis and a proposal for such efforts can be submitted upon your request.

This contract may be renewed for two (2) additional sampling periods under the same Terms and Conditions, scope of work, and lump sum cost of \$4,490 under mutual agreement. The contract can be extended by the City of Franklin and Tetra Tech by written confirmation by both parties.

The proposed budget will remain in effect for sixty (60) days from the date of this proposal. Please contact us regarding the budget if this time period passes and Tetra Tech has not been authorized to proceed with the project. These costs will not be exceeded without prior authorization.

Our payment terms are net due thirty (30) days from the date of the invoice, regardless of the status of the subject site acquisition. Interest at the rate of 1.5% per month will be charged on balances not paid within thirty days.

## **AUTHORIZATION**

This project can be authorized and initiated by returning a signed copy of the City of Franklin's Professional Services Agreement with this proposal attached to the undersigned via fax at 615-254-4507 or via electronic mail at [amy.tolley@tetratech.com](mailto:amy.tolley@tetratech.com).

We appreciate the opportunity to provide this proposal of services for your consideration. If you have any questions concerning these services or require adjustment to our approach or schedule, please do not hesitate in contacting us.

Sincerely,

**Tetra Tech EM Inc.**



Amy Tolley  
Biologist

Attachments: Attachment A –Project Personnel Resumes