



## REQUEST FOR QUALIFICATIONS (RFQ)

### VETERANS LAKE CYANOBACTERIA MITIGATION PLAN & STORMWATER STUDY

#### PROJECT SUMMARY

The City of Great Bend (City), Kansas is soliciting qualifications from interested consultants to conduct a feasibility study of cyanobacteria mitigation alternatives and stormwater runoff within the Veterans Memorial Lake drainage area in Great Bend, Kansas. Work will include evaluating the current condition of the lake and its water as well as the quality of the stormwater runoff entering the lake from the associated drainage area, identifying, evaluating and describing alternate methods for mitigating the effects of the cyanobacteria bloom, and budgetary costs for such mitigation alternative.

#### PROJECT OBJECTIVE

The City is seeking the services of a qualified professional engineering to prepare a report addressing mitigation alternatives to remediate the impacts of cyanobacteria at Veterans Memorial Lake as well as study and evaluate the contributing drainage area to determine if a campaign needs to be undertaken to raise awareness of the upstream users, that they need to modify their activities.

#### BACKGROUND

Veteran's Memorial Lake has been experiencing an algae bloom courtesy of a thriving cyanobacteria population. The problem was originally identified during the summer of 2010 by the Kansas Department of Health and Environment. During that timeframe a warning was issued recommending that contact with water from the lake be limited, due to the presence of very high levels of cyanobacteria within the lake. KDHE has been monitoring the lake routinely since the problem was initially identified, and during the summer of 2011 it was determined that the Veterans Memorial Lake actually contains two separate strains of cyanobacteria (one warm weather and one cold weather). The City wishes to perform this engineering study to evaluate the quality of the stormwater runoff within the Veterans Memorial Lake drainage area, and consider various alternatives to remediate the quality of the stormwater runoff as well as remediate the quality of the water present within the lake.

Funding for this project is being provided in part by Grant funding awarded to the City, by the Kansas Department of Health and Environment (KDHE) through the Clean Water Neighbor Grant Program. The remainder of funding will be in the form of a cost match required by the Grant funding mechanism provided by the City. As funding for this project includes a Grant source, it shall be noted and addressed in your proposal that time is of the essence for this project and a **final deliverables shall be completed no later than July 27<sup>th</sup>, 2012.**

## **SCOPE**

Services to be performed will include no less than the following:

1. Preparation of a design report (including DRAFT and FINAL versions) including:
2. Evaluate the local watershed contributing stormwater runoff to Veterans Memorial Lake and identify who the upstream contributors within the watershed are (agricultural/industrial/residential, etc.).
3. Identify the types of contaminants being introduced to the lake through the stormwater collection system and their likely causes.
4. Evaluate the nutrient content entering the lake through the existing stormwater collection system.
5. Evaluate the current condition of the lake (based upon existing data collected by the City and KDHE). Note: Additional water sample testing may be required.
6. Identify the cyanobacteria strains present within the lake, provide a discussion of their biology, identify conditions promoting optimal cyanobacteria growth, and compare that to the existing conditions of the lake.
7. Develop a list of potential remediation strategies, including an overview of techniques employed to mitigate cyanobacteria, and develop gross budgetary costs for implementing such remediation strategies. The following are some examples of strategies the City would like to see evaluated, and in no way shall this list be considered complete: chemical treatment, dredging of the lake, installing a constructed wetlands upstream, installation of biofilters, stormwater diversion, etc.

## **PROPOSAL**

- Statement of your understanding of the project and the consultant's role.
- Your methodology and approach to accomplishing the work.
- Discussion of your firm's experience on similar projects.
- Discussion of the project team, their experience on similar projects and an estimate of the man hours by discipline to be utilized on this project.
- References that the City may contact to verify experience and performance of your team members on similar projects.
- Discussion of sub-consultants, if any, their qualifications, their role in the project and their involvement as a percent of the total project.
- Proposed task list and project schedule.
- Corporate data.
- Resumes.

## **SUBMITTAL INSTRUCTIONS AND DEADLINE**

The submittal should be sent or delivered to the following address:

Robert L. Winiecke, P.E.  
City Engineer, City of Great Bend  
1209 Williams  
PO Box 1168  
Great Bend, KS 67530

Five copies of the qualifications submittal are due by **4:00 PM CST on Friday, March 9, 2012**. The proposals must be sealed and clearly marked as: "Request for Qualifications for the Veterans Lake Cyanobacteria Mitigation Plan and Stormwater Study". One copy must be an original and must be clearly marked as such. No portion of a submittal may be submitted by FAX or email.

The City reserves the right to reject any and all proposals, and to award or not award a contract for engineering services.