

**Request for Statement of Interest and Qualifications (SIQ)**

**THIS PROJECT FUNDED BY THE AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA)**  
*(Total Federal Allocation for all TMDL Projects Not to Exceed \$201,000.00)*

**“Water Quality Modeling Revision of TMDLs for Oxygen-Demanding Substances for Selected Waterbodies in Louisiana”**

**DEQ SIQ No. 5311-10-01**

**October 7, 2009**

The Louisiana Department of Environmental Quality (the Department) hereby invites you to submit a Statement of Interest and Qualifications (SIQ) for engineering assistance as described in the scope of services (Enclosure 1).

The proposed contract(s) will be negotiated with the firm selected by the Department and will begin approximately **January 1, 2010**.

The general criteria to be used by the Department in evaluating responses for the selection of a potential contractor to perform these services are:

- |    |                                                                                                                                                                                                                        |                   |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 1. | <u>Specialized Experience (Firm and Key Personnel)</u><br>Measures both the firm’s and key personnel’s demonstrated experience and performance on work similar to that likely to be required on this project.          | 40 points         |
| 2. | <u>Professional Qualifications</u><br>Measures the personal qualifications of key personnel expected to participate on this project, including academic attainment, professional achievements and relevant experience. | 25 points         |
| 3. | <u>Capability of Firm</u><br>Measures the ability of the firm to provide the technical/professional disciplines necessary to perform these services within the designated time frame.                                  | 25 points         |
| 4. | <u>Cost</u>                                                                                                                                                                                                            | 10 points         |
|    | <b>TOTAL</b>                                                                                                                                                                                                           | <b>100 points</b> |

DEQ SIQ No. 5311-10-01  
October 7, 2009

Should you wish to respond to this request for an SIQ please submit four (4) copies of a written statement expressing your willingness to comply with the terms specified herein. **Elaborate proposals are neither required nor desired. The Department prefers a simple presentation and discourages extensive use of artistic designs, use of hard binders, etc.** Included in your SIQ should be (1) **an executive summary stating the firm's particular expertise, resources and advantages they will bring to the project and why the submitting team would be the best selection for the project. This summary is limited to two pages;** (2) A preliminary work outline for the modeling process. This outline should identify the principal tasks which the firm feels should be addressed during the modeling process, together with the relevant experience of the individual responsible for each task. In the event the SIQ contains subcontractors, the particular task they will perform together with the relevant experience should be included. Subcontractors listed must be filed with the Louisiana Secretary of State, Corporation Division, and the Louisiana State Board of Registration for Professional Engineers and Land Surveyors.

NOTE: Travel and other allowable expenses shall be reimbursed in accordance with the Division of Administration State General Travel Regulations, within the limits established for State Employees, as defined in Division of Administration Policy and Procedure Memorandum No. 49(Revised 7-09)  
<http://www.doa.louisiana.gov/osp/travel/travelpolicy.htm>

**Any and all questions regarding this SIQ must be submitted in writing to the Department by 3:00 p.m., October 22, 2009.**

Questions may be mailed to:

Lisa Miller  
Financial Services Division  
Louisiana Department of Environmental Quality  
P. O. Box 4303  
Baton Rouge, LA 70821-4303

or submitted by e-mail to: [Lisa.Miller@la.gov](mailto:Lisa.Miller@la.gov)

Questions will also be accepted by FAX at (225) 219-3823.

Responses to these questions will be posted approximately **October 23, 2009**, and can be accessed by going to [www.deq.louisiana.gov/RFP](http://www.deq.louisiana.gov/RFP). Additionally, Questions and Answers will also be posted to LaPac. It is the responsibility of potential proposers to check the web site prior to submitting their proposal to verify that they have the most recent updates (i.e. questions and answers, addendums, additional information, etc.). Proposals that do not use the most recent updates **will not** be considered. Questions and answers that may potentially result in the disclosure of information from proposals of competing proposers will not be published.

DEQ SIQ No. 5311-10-01  
October 7, 2009

Proposals must be provided to the Department no later than 3:00 p.m., **November 6, 2009**, to:

Ms. Lisa Miller  
Financial Services Division  
Louisiana Department of Environmental Quality  
P. O. Box 4303  
Baton Rouge, LA 70821-4303

Proposals may also be hand delivered to the Department of Environmental Quality located at 602 N. 5<sup>th</sup> Street, Baton Rouge, LA 70802 or emailed to [Lisa.Miller@la.gov](mailto:Lisa.Miller@la.gov). The selected firm will be posted on the Department of Environmental Quality web page at [www.deq.louisiana.gov/RFP](http://www.deq.louisiana.gov/RFP).

All potential contractors should be advised that contractors may, in certain circumstances be deemed “public employees” as defined by the Ethics Commission. **Full disclosure to the Department is required of any potential conflicts.** Any potential conflicts shall be resolved with the Ethics Commission prior to seeking a contract. The commission on Ethics for Public Employees is located at 7434 Perkins Road, Baton Rouge, LA 70808; telephone number (225) 765-2308.

According to the provisions of LA. R.S. 12:301-302, any corporation which is not incorporated in the State of Louisiana must obtain a certificate of authority to transact business in Louisiana from the Louisiana Secretary of State, Corporations Division, 3851 Essen Lane, Baton Rouge, Louisiana 70809, Phone no. (225) 925-4704.

For-profit and non-publicly traded corporations must provide a Disclosure of Ownership form when contracting with the Department. The Disclosure of Ownership should not be submitted with SIQ. However, prior to contracting with the Department, the forms must be completed, notarized, and submitted to the Louisiana Secretary of State, Corporations Division, 3851 Essen Lane, Baton Rouge, Louisiana 70809 and a copy stamped by the Corporations Division must be provided to the Department.

The firm, engineers, or surveyors that will accomplish the work as described in Enclosure 1, Scope of Services, shall be certified by the Louisiana State Board of Registration for Professional Engineers and Land Surveyors and shall possess current licenses throughout the term of the contract. The firm, engineers, or surveyors shall provide all services in compliance with the registration law for Professional Engineers and Land Surveyors (L.R.S. 37:681 through 37:703 as amended by Act 568 of 1980) and the rules of the Board of Registration for Professional Engineers and Land Surveyors.

Enclosures

- (1) Scope of Services
- (2) Indemnification Agreement

REQUEST FOR STATEMENT OF INTEREST AND QUALIFICATIONS  
BY  
OFFICE OF ENVIRONMENTAL ASSESSMENT  
WATER QUALITY ASSESSMENT DIVISION  
FOR  
WATER QUALITY MODELING REVISION OF TMDLS FOR OXYGEN-DEMANDING  
SUBSTANCES  
FOR SELECTED WATERBODIES IN LOUISIANA

## **INTRODUCTION**

Louisiana's Department of Environmental Quality has developed total maximum daily loads (TMDLs) for a number of watersheds during the period 1999 through present in order to meet the requirements of section 303(d) of the federal Clean Water Act and assist the U.S. EPA in meeting the deadlines for completion of TMDLs established by the court consent decree of 2002. Under section 303(d) of the Clean Water Act, TMDLs must be developed for waterbodies that are not meeting water quality standards. Due to limited resources and the large workload involved in developing the required TMDLs, LDEQ is seeking assistance in order to complete these tasks. Specifically, LDEQ is seeking assistance in the revision of TMDLs and WLAs for the waterbodies listed in the tables on the following page. This work must be completed by September 2010. Interested contractors may submit statements of interest and qualifications for both work elements or for only one of the work elements.

## **BACKGROUND**

The TMDLs for oxygen-demanding substances involve the most complex water quality simulation modeling for waterbodies exhibiting low dissolved oxygen. For this reason, LDEQ has focused on development of these TMDLs. The dissolved oxygen criterion for some of these waterbodies has been changed to seasonal criteria, and additional dischargers may now be present in these watersheds. Therefore, some of these will require updating and revision. Since LDEQ is committed to completing TMDLs for the Lake Pontchartrain Basin, LDEQ will seek contractual support for revision of TMDLs for selected waterbodies in the Barataria and Terrebonne Basins.

## **SCOPE OF SERVICES**

The work to be done will include the re-projection of existing water quality models reflecting changes in water quality criteria and changes in the inventory of dischargers. For these selected waterbodies, TMDLs will be recalculated for oxygen-demanding substances based upon the revised dissolved oxygen criteria. Following necessary discharger inventory review and updates, the calibrated models will be rerun to simulate the impact from both point and nonpoint sources of biochemical oxygen demand on the level of dissolved oxygen under critical conditions for two seasons, summer and winter. Additional criteria are specified in LDEQ's Technical Procedures Manual. Copies of this document will be provided to the selected contractor. The existing TMDL models and data sets will be provided to the contractor for updating and revising.

**WORK ELEMENT 1**

LDEQ staff have identified the following water bodies located in several basins that should have oxygen demand TMDLs reviewed and updated to incorporate new dischargers; new information such as criteria revisions; and/or updated discharge scenarios. The contractor will re-evaluate at least one and up to 5 of the previously-promulgated TMDLs listed below to update them accordingly. Additional data may need to be collected, but that will be determined on a case-by-case basis.

<b>Subsegment</b>	<b>Water body description</b>	<b>TMDL</b>
020101	Bayou Verret, Bayou Chevreuil, Bayou Citamon, and Grand Bayou	LDEQ
020102	Bayou Boeuf, Halpin Canal, and Theriot Canal	LDEQ
120104	Bayou Grosse Tete – From headwaters to ICWW near Wilbert Canal	LDEQ
120111	Bayou Maringouin – From headwaters to East Atchafalaya Basin Levee	LDEQ
120206	Grand Bayou and Little Grand Bayou – From headwaters to Lake Verret	LDEQ

The TMDL model revision work, Work Element 1, will involve the following tasks:

Task 1. A review of all point sources discharging into the waterbodies to be modeled or their tributaries must be conducted, and any **new** point sources must be identified and mapped and their loads computed. The model input data sets will be reviewed and updated as needed to reflect revisions to the inventory of dischargers for these waterbodies. A progress report will be prepared. The complete data set, all maps, and the report will be submitted in both hard copy and soft copy formats to LDEQ for review and approval.

Task 2. The LAQUAL model will be run to provide new projections based upon the revised criteria and discharger inventory. Wasteload and load allocations must be calculated with the new dissolved oxygen criteria endpoints. A progress report documenting all modeling activities, input data development and output data interpretation will be prepared and submitted to LDEQ for review and approval.

Contractor must use standard formats for the transfer of the data required for this project for use by LDEQ. Input datasets in ASCII text electronic format. Mapping data must be in an ArcView format for incorporation into LDEQ’s Geographical Information System (GIS).

Task 3. A TMDL for oxygen-demanding substances (BOD) will be produced for critical conditions for each of the listed waterbodies. Projections must be run for both summer and winter seasons. Wasteload allocations and load allocations will be calculated and needed load reductions in man-made nonpoint source loading will be calculated. Complete input data sets will be provided as specified above. A comprehensive report documenting the TMDL development and results will be prepared for each waterbody and submitted in both hard and soft copy formats to LDEQ for review and approval. After LDEQ approval, LDEQ will then submit the report to EPA for review and approval.

Task 4. The contractor will make revisions to the work as necessary during the LDEQ and EPA reviews based upon LDEQ and EPA review and comments. The contractor will make any revisions necessary to obtain EPA approval of the TMDL prior to final payment. Upon approval by EPA, the project will be deemed complete.

The contract will be paid based on percent completion by task in accordance with the following milestones:

Task No.	Milestone	Percent of Project Completed
1	LDEQ approval of the items of Task 1	30
2	LDEQ approval of the items of Task 2	60
3	LDEQ approval of each revised TMDL report	95
5	EPA approval of each revised TMDL report	100

**INDEMNIFICATION AGREEMENT**

\_\_\_\_\_ agrees to protect, defend, indemnify, save, and hold  
(Contractor)  
harmless the State of Louisiana, all State Departments, Agencies, Boards and Commissions, its  
officers, agents, servants and employees, including volunteers, from and against any and all  
claims, demands, expense and liability arising out of injury or death to any person or the damage,  
loss or destruction of any property which may occur or in any way grow out of any act or  
omission of \_\_\_\_\_, its agents, servants, and employees, or any and all  
(Contractor)  
costs, expense and/or attorney fees incurred by \_\_\_\_\_ as a result of  
(Contractor)  
any claim, demands, and/or causes of action except those claims, demands, and/or causes of action arising out  
of the negligence of the State of Louisiana, all State Departments, Agencies, Boards and Commissions, its  
agents, representatives, and/or employees. \_\_\_\_\_ agrees to investigate, handle,  
respond to, provide defense for, (Contractor) and defend any such claim, demands, or suit at its sole expense  
and agrees to bear all other costs and expenses related thereto, even if it (the claim, etc.) is groundless, false or  
fraudulent.

Accepted by: \_\_\_\_\_  
Company Name  
\_\_\_\_\_  
Signature  
\_\_\_\_\_  
Title

Date accepted \_\_\_\_\_  
Is the Certificate of Insurance attached? \_\_\_\_ Yes \_\_\_\_ No

Contract No. \_\_\_\_\_ for \_\_\_\_\_  
\_\_\_\_\_  
Purpose of Contract: \_\_\_\_\_  
\_\_\_\_\_