

1. Solicitation #: 2021-0244

2. Solicitation Issue Date: 04/23/2021

3. Brief Description of Requirement:

Oklahoma Water Resources Board(OWRB) requires proposals for Lake Thunderbird Internal Loading Studies

All Inquiries must be submitted in form of questions or requests for clarification via email and received before 3 pm (CST) April 28, 2021. Questions received after that deadline will not be answered.

4. Response Due Date¹: 05/06/2021

Time: 5 P.M. CST/CDT

5. Issued By and **RETURN SEALED BID TO**²:

Agency Name : Oklahoma Water Resources Board
(Attn : Anil Pillai)
3800 N. Classen Blvd
Oklahoma City, OK 73118

6. Solicitation Type (type "X" at one below):

- Invitation to Bid
 Request for Proposal
 Request for Quote

7. Contracting Officer:

Name: Anil Pillai
Phone: 405 250-6961
Email: Anil.Pillai@owrb.ok.gov

¹ Amendments to solicitation may change the Response Due Date (read GENERAL PROVISIONS, section 3, "Solicitation Amendments").

² If "U.S. Postal Delivery" differs from "Carrier Delivery, use "Carrier Delivery" for courier or personal deliveries.

*“Certification for Competitive Bid and Contract” **MUST** be submitted along with the response to the Solicitation.*

1. RE: Solicitation# 2021-0244 _____

2. Bidder General Information:

FEI / SSN : _____ Supplier ID: _____
Company Name: _____

3. Bidder Contact Information:

Address: _____
City: _____ State: ____ Zip Code: _____
Contact Name: _____
Contact Title: _____
Phone #: _____ Fax #: _____
Email: _____ Website: _____

4. Oklahoma Sales Tax Permit¹:

- YES – Permit #: _____
 NO – Exempt pursuant to Oklahoma Laws or Rules – Attach an explanation of exemption

5. Registration with the Oklahoma Secretary of State:

- YES - Filing Number: _____
 NO - Prior to the contract award, the successful bidder will be required to register with the Secretary of State or must attach a signed statement that provides specific details supporting the exemption the supplier is claiming (www.sos.ok.gov or 405-521-3911).

6. Workers' Compensation Insurance Coverage:

Bidder is required to provide with the bid a certificate of insurance showing proof of compliance with the Oklahoma Workers' Compensation Act.

- YES – Include with the bid a certificate of insurance.
 NO – Exempt from the Workers' Compensation Act pursuant to 85A O.S. § 2(18)(b)(1-11) – Attach a written, signed, and dated statement on letterhead stating the reason for the exempt status.²

¹ For frequently asked questions concerning Oklahoma Sales Tax Permit, see <https://www.ok.gov/tax/Businesses/index.html>

² For frequently asked questions concerning workers' compensation insurance, see <https://www.ok.gov/wcc/Insurance/index.html>

7. Disabled Veteran Business Enterprise Act

- YES – I am a service-disabled veteran business as defined in 74 O.S. §85.44E. Include with the bid response 1) certification of service-disabled veteran status as verified by the appropriate federal agency, and 2) verification of not less than 51% ownership by one or more service-disabled veterans, and 3) verification of the control of the management and daily business operations by one or more service-disabled veterans.
- NO – Do not meet the criteria as a service-disabled veteran business.

Authorized Signature

Date

Printed Name

Title



NOTE: A certification shall be included with any competitive bid and/or contract exceeding \$5,000.00 submitted to the State for goods or services.

Agency Name: Oklahoma Water Resources Board Agency Number: 83500

Solicitation or Purchase Order #: 2021-0244

Supplier Legal Name: _____

SECTION I [74 O.S. § 85.22]:

A. For purposes of competitive bid,

1. I am the duly authorized agent of the above named bidder submitting the competitive bid herewith, for the purpose of certifying the facts pertaining to the existence of collusion among bidders and between bidders and state officials or employees, as well as facts pertaining to the giving or offering of things of value to government personnel in return for special consideration in the letting of any contract pursuant to said bid;
2. I am fully aware of the facts and circumstances surrounding the making of the bid to which this statement is attached and have been personally and directly involved in the proceedings leading to the submission of such bid; and
3. Neither the bidder nor anyone subject to the bidder's direction or control has been a party:
 - a. to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding,
 - b. to any collusion with any state official or employee as to quantity, quality or price in the prospective contract, or as to any other terms of such prospective contract, nor
 - c. in any discussions between bidders and any state official concerning exchange of money or other thing of value for special consideration in the letting of a contract, nor
 - d. to any collusion with any state agency or political subdivision official or employee as to create a sole-source acquisition in contradiction to Section 85.45j.1. of this title.

B. I certify, if awarded the contract, whether competitively bid or not, neither the contractor nor anyone subject to the contractor's direction or control has paid, given or donated or agreed to pay, give or donate to any officer or employee of the State of Oklahoma any money or other thing of value, either directly or indirectly, in procuring this contract herein.

SECTION II [74 O.S. § 85.42]:

For the purpose of a contract for services, the supplier also certifies that no person who has been involved in any manner in the development of this contract while employed by the State of Oklahoma shall be employed by the supplier to fulfill any of the services provided for under said contract.

The undersigned, duly authorized agent for the above named supplier, by signing below acknowledges this certification statement is executed for the purposes of:

- the competitive bid attached herewith and contract, if awarded to said supplier;
OR
 the contract attached herewith, which was not competitively bid and awarded by the agency pursuant to applicable Oklahoma statutes.

Supplier Authorized Signature

Certified This Date

Printed Name

Title

Phone Number

Email

Fax Number

A. GENERAL PROVISIONS

A.1. Definitions

As used herein, the following terms shall have the following meaning unless the context clearly indicates otherwise:

- A.1.1. "Acquisition" means items, products, materials, supplies, services, and equipment a state agency acquires by purchase, lease purchase, lease with option to purchase, or rental pursuant to the Oklahoma Central Purchasing Act;
- A.1.2. "Addendum" means a written restatement of or modification to a Contract Document executed by the Supplier and State.
- A.1.3. "Bid" means an offer in the form of a bid, proposal, or quote a bidder submits in response to a solicitation;
- A.1.4. "Bidder" means an individual or business entity that submits a bid in response to a solicitation;
- A.1.5. "Solicitation" means a request or invitation by the State Purchasing Director or a state agency for a supplier to submit a priced offer to sell acquisitions to the state. A solicitation may be an invitation to bid, request for proposal, or a request for quotation; and
- A.1.6. "Supplier" or "vendor" means an individual or business entity that sells or desires to sell acquisitions to state agencies.

A.2. Bid Submission

- A.2.1. Submitted bids shall be in strict conformity with the instructions to bidders and shall be submitted with a completed Responding Bidder Information, OMES-FORM-CP-076, and any other forms required by the solicitation.
- A.2.2. Bids shall be submitted to the Oklahoma Water Resources Board (OWRB) in a single envelope, package, or container and shall be sealed, unless otherwise detailed in the solicitation. The name and address of the bidder shall be inserted in the upper left corner of the single envelope, package, or container. SOLICITATION NUMBER AND SOLICITATION RESPONSE DUE DATE AND TIME MUST APPEAR ON THE FACE OF THE SINGLE ENVELOPE, PACKAGE, OR CONTAINER.
- A.2.3. The required certification statement, "Certification for Competitive Bid and/or Contract (Non-Collusion Certification)", OMES-FORM-CP-004, must be made out in the name of the bidder and must be properly executed by an authorized person, with full knowledge and acceptance of all its provisions.
- A.2.4. All bids shall be legible and completed in ink or with electronic printer or other similar office equipment. Any corrections to bids shall be identified and initialed in ink by the bidder. Penciled bids and penciled corrections shall NOT be accepted and will be rejected as non-responsive. In addition to a hard copy submittal, the bidder will also be required to submit an electronic copy. Electronic responses must be submitted in the identical format contained in the solicitation (for example Microsoft Word, Microsoft Excel, but not Adobe PDF). In the event the hard copy of the price worksheets and electronic copy of the price worksheets do not agree, the electronic copy will prevail.
- A.2.5. All bids submitted shall be subject to the Oklahoma Central Purchasing Act, Central Purchasing Rules, and other statutory regulations as applicable, these General Provisions, any Special Provisions, solicitation specifications, required certification statement, and all other terms and conditions listed or attached herein—all of which are made part of this solicitation.

A.3. Solicitation Amendments

- A.3.1. If an "Amendment of Solicitation", OMES-FORM-CP-011, is issued, the bidder shall acknowledge receipt of any/all amendment(s) to solicitations by signing and returning the solicitation amendment(s). Amendment acknowledgement(s) may be submitted with the bid or may be forwarded separately. If forwarded separately, amendment acknowledgement(s) must contain the solicitation number and response due date and time on the front of the envelope. The Central Purchasing Division must receive the amendment acknowledgement(s) by the response due date and time specified for receipt of bids for the bid to be deemed responsive. Failure to acknowledge solicitation amendments may be grounds for rejection.
- A.3.2. No oral statement of any person shall modify or otherwise affect the terms, conditions, or specifications stated in the solicitation. All amendments to the solicitation shall be made in writing by the Central Purchasing Division.
- A.3.3. It is the bidder's responsibility to check the OMES/Central Purchasing Division website frequently for any possible amendments that may be issued. The Central Purchasing Division is not responsible for a bidder's failure to download any amendment documents required to complete a solicitation.

A.4. Bid Change

If the bidder needs to change a bid prior to the solicitation response due date, a new bid shall be submitted to the Central Purchasing Division with the following statement "This bid supersedes the bid previously submitted" in a single envelope, package, or container and shall be sealed, unless otherwise detailed in the solicitation. The name and address of the bidder shall be inserted in the upper left corner of the single envelope, package, or container. SOLICITATION NUMBER AND SOLICITATION RESPONSE DUE DATE AND TIME MUST APPEAR ON THE FACE OF THE SINGLE ENVELOPE, PACKAGE, OR CONTAINER.

A.5. Certification Regarding Debarment, Suspension, and Other Responsibility Matters

By submitting a response to this solicitation:

- A.5.1. The prospective primary participant and any subcontractor certifies to the best of their knowledge and belief, that they and their principals or participants:
 - A.5.1.1. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded by any Federal, State or local department or agency;
 - A.5.1.2. Have not within a three-year period preceding this proposal been convicted of or pled guilty or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) contract; or for violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - A.5.1.3. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph A.5.1.2. of this certification; and
 - A.5.1.4. Have not within a three-year period preceding this application/proposal had one or more public (Federal, State, or local) contracts terminated for cause or default.
- A.5.2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to its solicitation response.

A.6. Bid Opening

Sealed bids shall be opened by the **Oklahoma Water Resources Board 3800 N Classen Blvd Oklahoma City OK 73118** at the time and date specified in the solicitation as Response Due Date and Time.

A.7. Open Bid / Open Record

Pursuant to the Oklahoma Public Open Records Act, a public bid opening does not make the bid(s) immediately accessible to the public. The procurement or contracting agency shall keep the bid(s) confidential, and provide prompt and reasonable access to the records only after a contract is awarded or the solicitation is cancelled. This practice protects the integrity of the competitive bid process and prevents excessive disruption to the procurement process. The interest of achieving the best value for the State of Oklahoma outweighs the interest of vendors immediately knowing the contents of competitor's bids. [51 O.S. § 24A.5(5)]

Additionally, financial or proprietary information submitted by a bidder may be designated by the Purchasing Director as confidential and the procurement entity may reject all requests to disclose information designated as confidential pursuant to 62 O.S. (2012) § 34.11.1(H)(2) and 74 O.S. (2011) § 85.10. Bidders claiming any portion of their bid as proprietary or confidential must specifically identify what documents or portions of documents they consider confidential and identify applicable law supporting their claim of confidentiality. The State Purchasing Director shall make the final decision as to whether the documentation or information is confidential pursuant to 74 O.S. § 85.10. Otherwise, documents and information a bidder submits as part of or in connection with a bid are public records and subject to disclosure after contract award or the solicitation is cancelled.

A.8. Late Bids

Bids received by the Central Purchasing Division after the response due date and time shall be deemed non-responsive and shall NOT be considered for any resultant award.

A.9. Legal Contract

- A.9.1. Submitted bids are rendered as a legal offer and any bid, when accepted by the Central Purchasing Division, shall constitute a contract.
- A.9.2. The Contract resulting from this solicitation may consist of the following documents in the following order of precedence:
 - A.9.2.1. Any Addendum to the Contract;
 - A.9.2.2. Purchase order, as amended by Change Order (if applicable);
 - A.9.2.3. Solicitation, as amended (if applicable); and
 - A.9.2.4. Successful bid (including required certifications), to the extent the bid does not conflict with the requirements of the solicitation or applicable law.
- A.9.3. Any contract(s) awarded pursuant to the solicitation shall be legibly written or typed.

A.10. Pricing

- A.10.1. Bids shall remain firm for a minimum of sixty (60) days from the solicitation closing date.
- A.10.2. Bidders guarantee unit prices to be correct.
- A.10.3. In accordance with 74 O.S. §85.40, ALL travel expenses to be incurred by the supplier in performance of the Contract shall be included in the total bid price/contract amount.

A.11. Manufacturers' Name and Approved Equivalents

Unless otherwise specified in the solicitation, manufacturers' names, brand names, information and/or catalog numbers listed in a specification are for information and not intended to limit competition. Bidder may offer any brand for which they are an authorized representative, and which meets or exceeds the specification for any item(s). However, if bids are based on equivalent products, indicate on the bid form the manufacturer's name and number. Bidder shall submit sketches, descriptive literature, and/or complete specifications with their bid. Reference to literature submitted with a previous bid will not satisfy this provision. The bidder shall also explain in detail the reason(s) why the proposed equivalent will meet the specifications and not be considered an exception thereto. Bids that do not comply with these requirements are subject to rejection.

A.12. Clarification of Solicitation

- A.12.1. Clarification pertaining to the contents of this solicitation shall be directed in writing to the Central Purchasing Contracting Officer specified in the solicitation, and must be prior to the closing date of the solicitation.
- A.12.2. If a bidder fails to notify the State of an error, ambiguity, conflict, discrepancy, omission or other error in the SOLICITATION, known to the bidder, or that reasonably should have been known by the bidder, the bidder shall submit a bid at its own risk; and if awarded the contract, the bidder shall not be entitled to additional compensation, relief, or time, by reason of the error or its later correction. If a bidder takes exception to any requirement or specification contained in the SOLICITATION, these exceptions must be clearly and prominently stated in their response.
- A.12.3. Bidders who believe proposal requirements or specifications are unnecessarily restrictive or limit competition may submit a written request for administrative review to the contracting officer listed on the solicitation. This request must be made prior to the closing date of the solicitation.

A.13 Negotiations

A.13.1. In accordance with Title 74 §85.5, the State of Oklahoma reserves the right to negotiate with one, selected, all or none of the vendors responding to this solicitation to obtain the best value for the State. Negotiations could entail discussions on products, services, pricing, contract terminology or any other issue that may mitigate the State's risks. The State shall consider all issues negotiable and not artificially constrained by internal corporate policies. Negotiation may be with one or more vendors, for any and all items in the vendor's offer.

A.13.2. Firms that contend that they lack flexibility because of their corporate policy on a particular negotiation item shall face a significant disadvantage and may not be considered. If such negotiations are conducted, the following conditions shall apply:

A.13.3. Negotiations may be conducted in person, in writing, or by telephone.

A.13.4. Negotiations shall only be conducted with potentially acceptable offers. The State reserves the right to limit negotiations to those offers that received the highest rankings during the initial evaluation phase.

A.13.5. Terms, conditions, prices, methodology, or other features of the bidders offer may be subject to negotiations and subsequent revision. As part of the negotiations, the bidder may be required to submit supporting financial, pricing, and other data in order to allow a detailed evaluation of the feasibility, reasonableness, and acceptability of the offer.

A.13.6. The requirements of the Request for Proposal shall not be negotiable and shall remain unchanged unless the State determines that a change in such requirements is in the best interest of the State Of Oklahoma.

A.14. Rejection of Bid

The State reserves the right to reject any bids that do not comply with the requirements and specifications of the solicitation. A bid may be rejected when the bidder imposes terms or conditions that would modify requirements of the solicitation or limit the bidder's liability to the State. Other possible reasons for rejection of bids are listed in OAC 260:115-7-32.

A.15. Award of Contract

- A.15.1. The State Purchasing Director may award the Contract to more than one bidder by awarding the Contract(s) by item or groups of items, or may award the Contract on an ALL OR NONE basis, whichever is deemed by the State Purchasing Director to be in the best interest of the State of Oklahoma.
- A.15.2. Contract awards will be made to the lowest and best bidder(s) unless the solicitation specifies that best value criteria is being used.
- A.15.3. In order to receive an award or payments from the State of Oklahoma, suppliers must be registered. The vendor registration process can be completed electronically through the OMES website at the following link: <https://www.ok.gov/dcs/vendors/index.php>.

A.16. Contract Modification

- A.16.1. The Contract is issued under the authority of the State Purchasing Director who signs the Contract. The Contract may be modified only through a written Addendum, signed by the State Purchasing Director and the supplier.
- A.16.2. Any change to the Contract, including but not limited to the addition of work or materials, the revision of payment terms, or the substitution of work or materials, directed by a person who is not specifically authorized by the Central Purchasing Division in writing, or made unilaterally by the supplier, is a breach of the Contract. Unless otherwise specified by applicable law or rules, such changes, including unauthorized written Addendums, shall be void and without effect, and the supplier shall not be entitled to any claim under this Contract based on those changes. No oral statement of any person shall modify or otherwise affect the terms, conditions, or specifications stated in the resultant Contract.

A.17. Delivery, Inspection and Acceptance

- A.17.1. Unless otherwise specified in the solicitation or awarding documents, all deliveries shall be F.O.B. Destination. The supplier(s) awarded the Contract shall prepay all packaging, handling, shipping and delivery charges and firm prices quoted in the bid shall include all such charges. All products and/or services to be delivered pursuant to the Contract shall be subject to final inspection and acceptance by the State at destination. "Destination" shall mean delivered to the receiving dock or other point specified in the purchase order. The State assumes no responsibility for goods until accepted by the State at the receiving point in good condition. Title and risk of loss or damage to all items shall be the responsibility of the supplier until accepted by the receiving agency. The supplier(s) awarded the Contract shall be responsible for filing, processing, and collecting any and all damage claims accruing prior to acceptance.
- A.17.2. Supplier(s) awarded the Contract shall be required to deliver products and services as bid on or before the required date. Deviations, substitutions or changes in products and services shall not be made unless expressly authorized in writing by the Central Purchasing Division.

A.18. Invoicing and Payment

- A.18.1. Pursuant to 74 O.S. §85.44(B), invoices will be paid in arrears after products have been delivered or services provided.
- A.18.2. Payment terms will be net 45.
- A.18.3. Additional terms which provide discounts for earlier payment will be evaluated when making an award. Additional terms shall be no less than ten (10) days increasing in five (5) day increments up to thirty (30) days. Discounts offered must be in half or whole percent increments. The date from which the discount time is calculated shall be the date of a valid invoice. An invoice is considered valid if sent to the proper recipient and goods or services have been received.

A.19. Tax Exemption

State agency acquisitions are exempt from sales taxes and federal excise taxes. Bidders shall not include these taxes in price quotes.

A.20. Audit and Records Clause

- A.20.1. As used in this clause, "records" includes books, documents, accounting procedures and practices, and other data, regardless of type and regardless of whether such items are in written form, in the form of computer data, or in any other form. In accepting any Contract with the State, the successful bidder(s) agree any pertinent State or Federal agency will have the right to examine and audit all records relevant to execution and performance of the resultant Contract.
- A.20.2. The successful supplier(s) awarded the Contract(s) is required to retain records relative to the Contract for the duration of the Contract and for a period of seven (7) years following completion and/or termination of the Contract. If an audit, litigation, or other action involving such records is started before the end of the seven (7) year period, the records are required to be maintained for two (2) years from the date that all issues arising out of the action are resolved, or until the end of the seven (7) year retention period, whichever is later.

A.21. Non-Appropriation Clause

The terms of any Contract resulting from the solicitation and any Purchase Order issued for multiple years under the Contract are contingent upon sufficient appropriations being made by the Legislature or other appropriate government entity. Notwithstanding any language to the contrary in the solicitation, purchase order, or any other Contract document, the procuring agency may terminate its obligations under the Contract if sufficient appropriations are not made by the Legislature or other appropriate governing entity to pay amounts due for multiple year agreements. The Requesting (procuring) Agency's decisions as to whether sufficient appropriations are available shall be accepted by the supplier and shall be final and binding.

A.22. Choice of Law

Any claims, disputes, or litigation relating to the solicitation, or the execution, interpretation, performance, or enforcement of the Contract shall be governed by the laws of the State of Oklahoma.

A.23. Choice of Venue

Venue for any action, claim, dispute or litigation relating in any way to the Contract shall be in Oklahoma County, Oklahoma.

A.24. Termination for Cause

- A.24.1. The supplier may terminate the Contract for default or other just cause with a 30-day written request and upon written approval from the Central Purchasing Division. The State may terminate the Contract for default or any other just cause upon a 30-day written notification to the supplier.
- A.24.2. The State may terminate the Contract immediately, without a 30-day written notice to the supplier, when violations are found to be an impediment to the function of an agency and detrimental to its cause, when conditions preclude the 30-day notice, or when the State Purchasing Director determines that an administrative error occurred prior to Contract performance.
- A.24.3. If the Contract is terminated, the State shall be liable only for payment for products and/or services delivered and accepted.

A.25. Termination for Convenience

- A.25.1. The State may terminate the Contract, in whole or in part, for convenience if the State Purchasing Director determines that termination is in the State's best interest. The State Purchasing Director shall terminate the Contract by delivering to the supplier a Notice of Termination for Convenience specifying the terms and effective date of Contract termination. The Contract termination date shall be a minimum of 60 days from the date the Notice of Termination for Convenience is issued by the State Purchasing Director.
- A.25.2. If the Contract is terminated, the State shall be liable only for products and/or services delivered and accepted, and for costs and expenses (exclusive of profit) reasonably incurred prior to the date upon which the Notice of Termination for Convenience was received by the supplier.

A.26. Insurance

The successful supplier(s) awarded the Contract shall obtain and retain insurance, including workers' compensation, automobile insurance, medical malpractice, and general liability, as applicable, or as required by State or Federal law, prior to commencement of any work in connection with the Contract. The supplier awarded the Contract shall timely renew the policies to be carried pursuant to this section throughout the term of the Contract and shall provide the Central Purchasing Division and the procuring agency with evidence of such insurance and renewals.

A.27. Employment Relationship

The Contract does not create an employment relationship. Individuals performing services required by this Contract are not employees of the State of Oklahoma or the procuring agency. The supplier's employees shall not be considered employees of the State of Oklahoma nor of the procuring agency for any purpose, and accordingly shall not be eligible for rights or benefits accruing to state employees.

A.28. Compliance with the Oklahoma Taxpayer and Citizen Protection Act of 2007

By submitting a bid for services, the bidder certifies that they, and any proposed subcontractors, are in compliance with 25 O.S.

§1313 and participate in the Status Verification System. The Status Verification System is defined in 25 O.S. §1312 and includes but is not limited to the free Employment Verification Program (E-Verify) through the Department of Homeland Security and available at www.dhs.gov/E-Verify.

A.29. Compliance with Applicable Laws

The products and services supplied under the Contract shall comply with all applicable Federal, State, and local laws, and the supplier shall maintain all applicable licenses and permit requirements.

A.30. Special Provisions

Special Provisions set forth in SECTION B apply with the same force and effect as these General Provisions. However, conflicts or inconsistencies shall be resolved in favor of the Special Provisions.

Oklahoma Water Resources Board

Water Quality Division

Section B
STATEMENT OF WORK
OWRB 2021-0244
(April 23, 2021)

Lake Thunderbird Internal Loading Studies

1.0 INTRODUCTION

1.1. Background Information

1.1.1. The Oklahoma Water Resources Board (“OWRB”), an agency of the state of Oklahoma, is seeking to obtain a two-year agreement from a university research laboratory to conduct a sediment phosphorus and nitrogen (nutrient) flux estimation study Lake Thunderbird in central Oklahoma. The required services shall include the monitoring of Lake Thunderbird to gather water quality and limnological samples, the analytical processing of samples in a research laboratory, the analysis and reporting of data, and the publication of study findings in a peer-reviewed scientific journal.

1.1.2. The OWRB lake monitoring program requires the determination of internal nutrient loading flux rates and the occurrence and concentration of certain micronutrients for Lake Thunderbird.

2.0 DEFINITIONS

2.1. General Definitions

2.1.1. “Contractor” means the supplier who is selected by and enters into a contract with the OWRB to provide the products and services in accordance with this Statement of Work and applicable contract documents.

2.1.2. “Date of Execution” shall be the date of award issued by the OWRB Purchasing Division.

2.1.3. “Excusable Delays” means delays completely beyond the control of the responsible party, including but not limited to: inclement weather preventing normal operation, power failure, fires, natural disasters other than inclement weather, and forced closure by outside authority (evacuation, etc.).

2.1.4. “Proper Invoice” means an invoice submitted by the Contractor that includes all requirements for processing for payment in accordance with the terms of the contract and applicable state or federal statutes, including but not limited to the Contractor’s business name and address, invoice number, invoice date, purchase order number, rate, service performed, and such documentation as may be required by the OWRB or State law or regulation.

2.1.5. “Section” means the text of any enumerated subdivision of this Statement of Work (e.g., 3.1.1), or group of enumerated subdivisions under a bolded or underscored heading (e.g., all of the subdivisions numbered 2.1.1 through 2.1.7 under 2.1 General Definitions, or all of the subdivisions numbered 2.1.1 through 2.2.6 under **2.0 DEFINITIONS**), as the context requires.

2.1.6. “Statement of Work” means this Statement of Work document in its entirety.

2.2. Technical Definitions

- 2.2.1. "Chain of Custody" means the set of procedures for documenting the history and possession of a sample from the time of collection through analysis and data reporting.**
- 2.2.2. "Core-Flux Method" means a methodology to quantify nutrient release from lake sediments (internal loading). The core-flux method requires collecting intact sediment cores from the lake and then incubating the cores in the laboratory while measuring the change in concentration of nutrients in the overlying water.
- 2.2.3. "Primary Investigator" means the individual with primary managerial and technical responsibility over the design, implementation, management, reporting, and completion of all work requirements and deliverables outlined in the scope of work. Will be regularly abbreviated as PI throughout this document.
- 2.2.4. "Sample Event" means a sampling visit at a single site during a single index period. Will include collection of all cores, sediment, and water during the visit.**
- 2.2.5. "Sample Report" means a report of analytical results from a sample event and should include all the relevant site and event information.**

3.0 WORK REQUIREMENTS

- 3.1. Contractor shall conduct nutrient core-flux studies and characterize micronutrients on Lake Thunderbird. With input from the chosen contractor, the OWRB will select micronutrients to be characterized. The nutrient core-flux studies will be on Lake Thunderbird during a summer and winter index period at 2 locations. The micronutrients will be collected during the same sampling periods and locations
- 3.2. The contractor will collect intact core samples during each of the index periods. Each of these sample visits will be defined as a sample event. During each sample visit, nine intact core samples will be collected using either a sediment corer or Eckman dredge. Each set of cores will be grouped into three replicates of three different oxygen conditions, one oxic, one anoxic, and one hypoxic. During each visit, the contractor will also collect water samples to be analyzed for micronutrients.
- 3.3. In controlled research laboratory conditions, the contractor will analyze the collected intact core samples from each sample event using the "core-flux" method. Reconstituted lake water will be added to the cores, and at most, eight water samples will be collected over a 10-day period on days 1, 2, 3, 4, 5, 8, and 10. Each sample will be analyzed for a nutrient series consisting of total phosphorus, dissolved reactive-phosphorus, total Kjeldahl nitrogen, ammonia, and nitrate/nitrite. Additionally, all samples will be analyzed for alkalinity and hardness. A sediment sample from the cores will be analyzed for the same nutrient series. Micronutrient samples will be analyzed according to acceptable scientific methods.
- 3.4. For any field work related to the project, the contractor shall provide all needed equipment, including trucks, boats, water quality sondes, corers, and other sampling gear.
- 3.5. For any laboratory work related to the product, the contractor shall use a fully functional limnological research laboratory equipped with analytical equipment equivalent to a membrane inlet mass spectrometer, Thermo Elemental Analyzer, a Beckman DU Spectrophotometer, and a Lachat Autoanalyzer.
- 3.6. Prior to any field work, the contractor will submit for review and approval by the OWRB Water Quality Division Chief a Monitoring and Reporting Plan.
- 3.7. Prior to any field work, the contractor will submit for review and approval by the OWRB Water Quality Division Chief a Quality Assurance Project Plan written in accordance with OWRB and United States Environmental Protection Agency guidelines and requirements.

4.0 DELIVERABLES

- 4.1. Contractor shall generate a Sample Report for each sample event which shall include the following:
 - 4.1.1. Each individual Sample Report shall be entered into a Microsoft Excel or Access compatible format and shall be provided to the OWRB as a hardcopy and as an electronic copy.
 - 4.1.2. Each Sample Report shall include all information contained on the sample login sheet (e.g., station name, station ID, GPS coordinates, county, type of collection, date collected and sub-sampled, etc.).
 - 4.1.3. Each Sample Report shall enumerate each individual result with proper notation of core characteristics.
 - 4.1.4. Each Sample Report shall include all analytical data as outlined in section 3.3 of this document
 - 4.1.5. All completed Sample Reports must be delivered to OWRB no later than ninety (90) calendar days after Sample Receipt.
- 4.2. Semi-annual Progress Reports will be provided on June 30 and December 31 of each project year during the term of the project. The June report shall address work conducted from January to June and the December report shall address work conducted from July to December during the respective reporting periods. The Semi-annual Progress Report shall summarize the following information: 1) progress on project milestones and commitments, 2) major/key accomplishments during the reporting period, 3) problems or obstacles encountered and remedial action taken, 4) work planned for the next six month period.
- 4.3. A Draft Final Technical Report shall be delivered to the OWRB no later than 240 days after the completion of field sampling. The Technical Report shall include: 1) introduction and project objective, 2) description of sites sampled, sample locations, and sample collected, 3) description of study design and analyses including a description of the core-flux methodology and other field and lab methods employed, 4) all validated data, final flux rate results for each sample event, concluding information on the internal loading flux rates for each site during each index period, characterization of micronutrients, 5) discussion and conclusions, 6) maps, tables, and figures, as applicable, and 7) necessary references and appendices. The OWRB shall have 60 days to review and provide comments on the draft final report. Upon return of the reviewed Draft Final Report, the contractor will complete the Final Technical Report within 60 days and deliver by e-mail, in print, and on a compact disc, in a Microsoft Word[®] related format. All final data shall be delivered in an Excel[®] or Access[®] compatible format.
- 4.4. Study results shall be published in peer-reviewed scientific journal within 2 years of study completion.

5.0 GOVERNMENT FURNISHED ITEMS OR SERVICES

- 5.1. The OWRB shall provide, if needed, a crew member for each sampling event.

6.0 INSPECTION/REPORTING REQUIREMENTS

[Not applicable for this agreement.]

7.0 UNUSUAL OR SPECIAL CONDITIONS

- 7.1. This agreement may be terminated by the WQ Division of OWRB with final approval by OWRB Purchasing Division at any time due to lack of funding to support the agreement or OWRB's final, non-review able determination that the Contractor has not met the specific terms of the agreement.
- 7.2. The initial agreement may be renewed for up to one additional one-year periods at the option and by the mutual agreement of both parties, with the same terms and conditions and charges not to exceed original bid amounts.
- 7.3. Excusable Delays shall not be held against either party.
- 7.4. The term of the agreement shall extend 730 days after the Date of Execution.

- 7.5. The Contractor selected to provide the services described in this Statement of Work will be chosen using "Best Value" criteria. Please see Attachment A for details on the evaluation process.

8.0 APPLICABLE LAWS, REGULATIONS, PUBLICATIONS, FORMS

- 8.1. This Statement of Work, the accompanying Request for Proposal and each of its components and any contract that may be awarded are all governed by and subject to the laws of the State of Oklahoma.
- 8.2. If payment is received by the Contractor in excess of 45 calendar days after the later of the date of a Proper Invoice, the date the OWRB receives a Proper Invoice from the Contractor, or the date of receipt by the OWRB of the goods or services in an acceptable condition specified by the contract or purchase order, the Contractor may be entitled to claim an interest penalty. Oklahoma Statutes Title 62, Sections 41.4a through 41.4d; and Oklahoma Administrative Code Title 260, Chapter 10. For a copy of these rules, Contractor may contact the Office of State Finance, Room 122, State Capital Building, Oklahoma City, Oklahoma 73105.
- 8.3. The "General Provisions" included with this Statement of Work are incorporated herein by reference and made a part hereof.

Attachment A

OWRB RFP No. 2021-0244

The following items must be addressed in responding to this Request for Proposal. The OWRB encourages the suppliers to be concise and to the point in their bid.

- **Price**

- Total project cost shall not exceed \$22,000.

- **Required Experience – Bidding Entity**

- The Bidding Entity shall have the experience and capacity to conduct field-scale experiments related to nutrient internal loading studies employing a core-flux method. This would include the required personnel and equipment, including trucks, boats, water quality sondes, corers, and other sampling gear.
- The Bidding Entity shall have the experience and capacity to conduct laboratory experiments related to nutrient internal loading employing a core-flux method. This would include equipment needed processing of cores and all related samples. Equipment required shall include a membrane inlet mass spectrometer, Thermo Elemental Analyzer, a Beckman DU Spectrophotometer, and a Lachat Autoanalyzer.
- The Bidding Entity must disclose the entity's number of years of experience in limnological research broadly and also specifically related to nutrient internal loading studies and core-flux methodology. Please also disclose the number of years of experience in conducting limnological research in the south-central United States and Oklahoma. Weight will be given to Bidding Entities with more experience.
- The Bidding Entity must list any previous or ongoing contracts for limnological research broadly and also specifically related to nutrient internal loading studies and core-flux methodology with federal and/or state agencies, if any. Weight will be given to Bidding Entities that within the past 5 years have had contract(s) related to the above.
- Five (5) extra points will given to any bidding entity currently performing internal loading studies in Oklahoma, as described in the statement of work.

- **Required Experience – Primary Investigator(s) (PI)**

- The PI for the project must disclose the number of years of experience he or she has in limnological research broadly and also specifically related to nutrient internal loading studies and core-flux methodology. Additionally, the PI must disclose number of years of experience in conducting limnological research in the south-central United States and Oklahoma. Weight will be given to lead limnologists with more experience.
- The PI for the project must disclose the number of years of experience he or she has in directing and managing limnological research broadly and also specifically related to nutrient internal loading studies and core-flux methodology.
- The PI for the project must disclose the number of years of experience he or she has in directing and managing postdoctoral research fellows, graduate student research assistants, and undergraduate research assistants.
- Two (2) extra points will be given to any primary investigator currently performing internal loading studies in Oklahoma, as described in the statement of work

- **Bidding Entity and PI Vitae, Memberships, and Certifications.**

- The Bidding Entity should submit curriculum vitae of relevant personnel including any publications in refereed scientific journals and presentations at regional and/or state meetings or conferences. Provide complete curriculum vitae with proposal response. Scoring weight will be given to the bidding entity with a number of publications in journals and presentation and a number of staff with advanced degrees in disciplines related to the contract needs.
- The PI for the project must have a PhD in a water related or environmental science discipline and be a research faculty member in good standing at reputable university. The PI must have a publication history in peer-reviewed scientific journals related to limnology, other water related sciences, or environmental sciences.
- OWRB would prefer the Bidding Entity and/or PI have a current membership in at least one relevant scientific organization such as the Association for the Sciences of Limnology and Oceanography (ASLO). Weight will be given to the number of organizations.
- OWRB would prefer the Bidding Entity and/or PI be actively involved as a peer reviewer for scientific journals. Weight will be given to the number of peer-review activities. Weight will also be given to any activities as editor or associate editor of peer-reviewed scientific journal.

- **Work Requirements/Deliverables**

- Please respond to the Entity's ability to meet all requirements listed in the statement of work, specifically all of Section 3.0 "Work Requirements" and Section 4.0 "Deliverables". Please discuss in detail the entity's ability to perform field and laboratory work. Also, comment on each of the Deliverables and the entity's ability to comply with the required quality components of the contract.

- **References:**

- Provide a minimum of two references for contract or grant work related to nutrient internal loading studies and core-flux methodology. OWRB would prefer at least one reference be from a governmental entity.

All proposal responses will be reviewed to determine their responsiveness. All responsive proposals will be evaluated by an evaluation committee consisting of OWRB WQ staff that will examine each proposal response and use a scoring tool to evaluate the four items described above using "**Best Value**" criteria. The order in which the criteria items are listed does not establish priority. A staff member independent of the committee will contact at least two references provided from each proposal response and submit the findings to the committee. The committee will rank the proposals and make an award recommendation to the OWRB, Purchasing Division for their review and issuance of award.

CHECK LIST

ITEMS TO RETURN:

1. Responding Bidder Information : COMPLETED AND SIGNED
2. Certification For Competitive Bid Form 004 :COMPLETED AND SIGNED
3. Please list prices to this proposal on Attachment B cost sheet provided in solicitation. Award will be given based on total cost to "**Best Value**" bidder by item or groups of items. Include information to allow comparison to specifications.

ON OUTSIDE OF ENVELOPE, PACKAGE OR CONTAINER WRITE:

SOLICITATION NUMBER: 2021-0244

BID CLOSING DATE : May 06, 2021