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|---|------------------------------|---|--|-------------------------|
| <b>REQUEST FOR QUOTATION<br/>(THIS IS NOT AN ORDER)</b>   |                              | THIS RFO <input checked="" type="checkbox"/> IS <input type="checkbox"/> IS NOT A SMALL BUSINESS SET-ASIDE  |  | PAGE OF PAGES<br>1   11 |
| 1. REQUEST NO.<br>N00173-14-Q-0088  | 2. DATE ISSUED<br>01-15-2014 | 3. REQUISITION/PURCHASE REQUEST NO.<br>61-0542-14   | 4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DMS REG. 1   | RATING                  |
| 5a. ISSUED BY<br>Naval Research Laboratory (Supply Officer) Code 3410   |                              |   | 6. DELIVER BY (Date)<br>03/31/2014   |                         |
| 5b. FOR INFORMATION CALL (NO COLLECT CALLS)   |                              |   | 7. DELIVERY<br><input checked="" type="checkbox"/> FOB DESTINATION <input type="checkbox"/> OTHER (See Schedule) |                         |
| NAME<br>Nicole Coleman  |                              | TELEPHONE NUMBER<br>AREA CODE: 202 NUMBER: 767-2474   |  | 9. DESTINATION          |
| 8. TO:  |                              |   | a. NAME OF CONSIGNEE<br>Naval Research Laboratory  |                         |
| a. NAME<br>All Quoters  | b. COMPANY                   |   | b. STREET ADDRESS<br>4555 Overlook Ave SW  |                         |
| c. STREET ADDRESS   |                              |   | c. CITY<br>Washington  |                         |
| d. CITY   | e. STATE                     | f. ZIP CODE   | d. STATE<br>DC   | e. ZIP CODE<br>20375    |
| 10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a ON OR BEFORE CLOSE OF BUSINESS (Date)<br>01/27/2014 |                              | IMPORTANT: This is a request for information, and quotations furnished are not officers. If you are unable to quote, please so indicate on this form and return it to the address in Block 5a. This request does not commit the Government to pay any costs incurred in the preparation of the submission of this quotation or to contract for supplies or service. Supplies are of domestic origin unless otherwise indicated by quoter. Any representations and/or certifications attached to this Request for Quotation must be completed by the quoter. |  |                         |

**11. SCHEDULE (Include applicable Federal, State and local taxes)**

| ITEM NO.<br>(a)                  | SUPPLIES/ SERVICES<br>(b) | QUANTITY<br>(c) | UNIT<br>(d) | UNIT PRICE<br>(e) | AMOUNT<br>(f) |
|----------------------------------|---------------------------|-----------------|-------------|-------------------|---------------|
| See attached continuation sheets |                           |                 |             |                   |               |

|                                 |                         |                         |                         |                  |            |
|---------------------------------|-------------------------|-------------------------|-------------------------|------------------|------------|
| 12. DISCOUNT FOR PROMPT PAYMENT | a. 10 CALENDAR DAYS (%) | b. 20 CALENDAR DAYS (%) | c. 30 CALENDAR DAYS (%) | d. CALENDAR DAYS |            |
|                                 |                         |                         |                         | NUMBER           | PERCENTAGE |

NOTE: Additional provisions and representations  are  are not attached.

|                                |  |             |  |  |                           |  |
|--------------------------------|--|-------------|--|--|---------------------------|--|
| 13. NAME AND ADDRESS OF QUOTER |  |             | 14. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION |  | 15. DATE OF QUOTATION     |  |
| a. NAME OF QUOTER              |  |             | 16. SIGNER   |  | b. TELEPHONE<br>AREA CODE |  |
| b. STREET ADDRESS              |  |             |  |  |                           |  |
| c. COUNTY                      |  |             | a. NAME (Type or print)                              |  | NUMBER                    |  |
| d. CITY                        |  |             | c. TITLE (Type or print)                             |  |                           |  |
| e. STATE                       |  | f. ZIP CODE |  |  |                           |  |

| STANDARD FORM 36 JULY 1966<br>GENERAL SERVICES ADMINISTRATION<br>FED. PROC. REG. (41 CFR) 1-16.101 |  | CONTINUATION SHEET |      | REF. NO. OF DOC. BEING CONT'D |        | PAGE OF |  |
|--|--|--------------------|------|-------------------------------|--------|---------|--|
|  |  |                    |      | N00173-14-Q-0088              |        | 2 11    |  |
| NAME OF OFFEROR CONTRACTOR   |  |                    |      |                               |        |         |  |
| All Quoters  |  |                    |      |                               |        |         |  |
| ITEM NO.   | SUPPLIES/SERVICES  | QUANTITY           | UNIT | UNIT PRICE                    | AMOUNT |         |  |
| 001  | <p>Assess the transformation and microbial degradation of natural organic matter and of nitrogenous energetic (NEC) such as TNT, the geochemistry of organic matter will be measured in samples collected across several ecosystem types where currently there is limited data. The samples will be collected and tested per the statement of work below.</p> <p>STATEMENT OF WORK:</p> <p>To assess the transformation and microbial degradation of natural organic matter and of nitrogenous energetic compounds (NEC) such as TNT, the geochemistry of organic matter will be measured in samples collected across several ecosystem types where currently there is limited data. These ecosystems include the intracoastal waterway of Albemarle and Pamlico Sounds, NC. The aromatic component (e.g. lignin, PAHs) of dissolved organic carbon (DOC) and particulate organic (POC) in the water column and nepheloid and particulate organic carbon (POC) in sediment will be measured along with DOC absorption and fluorescence and base-extracted POC absorption and fluorescence. Field and experimental work will be conducted shipboard across the aforementioned ecosystem. These incubations will complement NRL investigation of bacterial production and TNT mineralization and organic matter characterization. The absorption and fluorescence of DOC and POC will be measured at NCSU, along with DOC and POC concentrations and <sup>13</sup>C-DOC values. Particulate and dissolved lignin phenols will be measured on select water column and sediment samples. Working with NRL, lignin, a unique terrestrial carbon biomarker similar in structure to nitrogenous aromatics, will be used to track the input of recalcitrant material across salinity fronts. Multivariate statistical modeling of the fluorescence results will be done to establish a rapid proxy for OM sources and transformations. This will provide remedial program managers (RPM) with an easy-to-use assay for future analyses. A final report will be due to NRL on 31 January 2015.</p> <p>If available please include published price list or a cost breakdown and return RFQ package to the following fax number (202)-767-0685 or email nicole.coleman@nrl.navy.mil</p> <p>Any questions concerning this Request for Quotation (RFQ) must be e-mailed to SolQnA@nrl.navy.mil at least five (5) days before the closing date shown in block 10 on page 1 of the RFQ.</p> | 1                  | EA   |                               |        |         |  |