

New Jersey Department of Environmental Protection

Division of Science and Research
Analytical Services- Water, Sediment and Fish Tissue

May 20th, 2020

BIDS DUE by Wednesday, June 3rd, 2020 BY 12:00 NOON

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Request for Proposal and Quotation

The New Jersey Department of Environmental Protection (NJDEP), Division of Science and Research (DSR) will be collecting water, sediment, and fish samples from the tidal and non-tidal portions of New Jersey as part of a research and monitoring program to assess toxic contaminants in the State's waters, sediments, and biota. In support of these efforts, the NJDEP/DSR requires certain specialty analytical services.

Award of final contract is contingent upon the Vendor submitting fully executed State required Delegated Purchasing Authority forms, which can be found at http://www.state.nj.us/treasury/purchase/forms/DPA_Form_Packet.pdf. In addition, contract award will be contingent upon the Vendor being registered with the State of New Jersey, Division of Revenue and possessing a valid Business Registration Certificate at time of contract work. Vendors that are not registered with the Division of Revenue can fill out a Business Registration Application, found at <http://www.nj.gov/njbusiness/starting/>. Note: these forms will be expected soon after a full review of technical proposal and will not have to be submitted at time of proposal. If selected vendor is not able to comply with these requirements within one months time, the next vendor with appropriate experience and unit pricing will be selected.

Statement of Work:

This request for proposal and quotation is to provide analytical services during the period of an Agreement with the NJDEP/DSR. The analyses may be requested on ambient water (total, dissolved, or particulate fractions), sediment or tissue samples, for some or all of the analytical suites listed in Appendix A. The ambient water, sediment, and tissue (fish) samples will be collected from freshwater, brackish, and marine ambient waters within New Jersey to determine the levels of target analytes. A list of analytes and analytical methods are provided in Appendix A. Laboratory requirements are provided in Appendix B. The laboratory should provide unit cost estimates for each parameter in each matrix using form in Appendix C. A subcontractor can be employed for parameters that are certified by the State of NJ, as long as that lab has the required certification. No subcontract will be allowed for those parameters that require competency in research analytical techniques for emerging compounds.

Project Scope

1. Water: Samples for the analysis of per- and poly- fluoroalkyl compounds (PFAS) will be collected in bottles supplied by the laboratory. These samples will range in salinity from that of seawater (~35 ppt) to freshwater. Trip blanks and rinsate blanks may also be submitted with each batch of samples. A minimum of one sample plus a possible blank sample will be shipped immediately following each sampling event. An estimated total of 25-35 samples will require analytical analysis during the initial contract period (2019-2020). Samples may be collected for other parameters listed in Appendix A after consultation with the lab. If samples are collected for the analysis of PPCPs, a minimum of eight samples will be sent to the lab.
2. Sediment: Samples for the analysis of PFAS will be collected in appropriate containers supplied by the laboratory. Samples will consist of grab samples containing sediment taken from areas where salinity may range from freshwater to that of seawater. An estimated 1 to 2 samples for

PFAS will be shipped to the laboratory after each of the sampling events, for a total of 25 to 35 samples during the initial contract period. Samples may be collected for other parameters listed in Appendix A after consultation with the lab. If samples are collected for the analysis of PPCPs, a minimum of eight samples will be sent to the lab.

3. Fish: Unprocessed, whole fish will be provided to the laboratory for sample preparation for PFAS and potentially other parameters in Appendix A. Each sample prepared by the laboratory shall consist of a single standard filet from an individual specimen. Species will include largemouth bass, white perch, channel catfish, white sucker, chain pickerel, sunfish, common carp and American eel. Other species may also be included. All samples will be processed with the skin removed. An estimated 60 to 90 samples will be provided to the laboratory in either several batches during the initial contract period (2019-2020). Samples may be collected for other parameters listed in Appendix A after consultation with the lab. If samples are collected for the analysis of PPCPs, a minimum of eight samples will be sent to the lab.

Any agreement executed with the selected party will be for a period of 1 year, at the discretion of the NJDEP/DSR.

Cost estimates shall be provided on the attached bid form for each parameter or suite of parameters on a per sample basis and a total cost per batch basis. Please note any discount for multiple samples (e.g., >10 samples) per batch. It is expected that all samples may be submitted in batches during the spring, summer, and fall of each year. The proposal shall include estimated vendor costs for returning shipping cooler to the NJDEP/DSR offices.

The Division of Science and Research is particularly interested in obtaining reliable results for the emerging compounds of PFAS and pharmaceuticals and understands that no certified analytical methods exist for the environmental media surface water, sediments and fish tissue. Therefore, the lab should include a summary of the Standard Operating Procedure that the lab employs for these analyses on these three media. The lab should also include a list of the analytes that will be reported from this analysis. A more favorable method with a more extensive list of analytes will be a significant component to vendor selection.

Interested parties shall submit by e-mail: a) a proposal for this study including documentation of their qualifications, b) cost estimates, c) Method SOPs, expected detection limits, and lists of analytes for methods without certification, and d) list of projects and references for which the lab has served in a similar capacity to Sandra.Goodrow@dep.nj.gov. The office address is: New Jersey Department of Environmental Protection, Division of Science and Research, 428 East State Street, Mail Code 428-01, P.O. Box 420, Trenton, NJ 08625 but due to the ongoing COVID-19 issue, submittals will should only be submitted by e-mail. Submissions should be in Sandra Goodrow's email inbox by **12 p.m. NOON Wednesday, June 3, 2020**. Proposals received after this time will not be considered.

The Contractor may partner with other entities under subcontract for analyses with certifications that are not routinely conducted by a contractor but the subcontractor and their qualifications and laboratory certifications must be disclosed in the proposal. The contractor may not use a subcontractor for those research methods where no certification exists.

Any questions should be directed to Sandra Goodrow, PhD Sandra.Goodrow@dep.nj.gov.

Appendix A: Target List of Analytes

Analyte	Method	Compound
PCBs	Method 1668A	All 209 congeners
Dioxins/Furans	Method 1613B or equivalent HR GC/MS	As provided by Method
PBDEs	Method 1614 or equivalent HR GC/MS	<i>As achieved by the Laboratory</i> *Note
Per- and Poly- fluoroalkyl Substances	*SOP for all three media required. Must include isotope dilution.	<i>As achieved by the Laboratory</i> *Note
Pharmaceuticals and Personal Care Products (PPCPs)	*SOP for all three media required. List of PPCPs should accompany any unit cost	<i>As achieved by the Laboratory</i> *Note
Organochlorine Pesticides	Method 1699 or equivalent HR GC/MS *Provide SOP if not 1699, with list of pesticides included	<i>As achieved by the Laboratory</i> *Note
PAHs	GC/MS or equivalent method	<i>As achieved by the Laboratory</i> *Note
Mercury (Hg)	Method 1631 or equivalent	<i>As achieved by the Laboratory</i> *Note
Methylmercury (MeHg)	Method 1630 or equivalent	<i>As achieved by the Laboratory</i> *Note

*Note: Please provide a listing of individual compounds routinely achieved by the method employed for analysis

For all analytes, in all matrices, please provide typical method detection limits achieved and include supporting documentation.

Matrix	Supplementary Parameters	Method(s)
Fish Tissue	Percent moisture and lipid content	Standard Methods
Sediment	Bulk and dry density Grain Size Total Organic Carbon (TOC) Salinity and pH	ASTM Method D 2937 Sieve and hydrometer EPA Method 440 Standard Methods

Appendix B: Laboratory Requirements

- A. Include certification ID of the laboratory or other programs the laboratory participates in or provide the auditing that is performed of the laboratory and method.
- B. A demonstration of capability for all methods shall be included along with the method detection limit that the laboratory is expected to achieve.
- C. The laboratory shall provide an SOP and cost estimates for the processing of whole fish for analysis.
- D. The laboratory, at its cost, shall provide method blank water in adequate volume for the collection of field blanks. Results shall not be reported below the lowest point of the calibration curve. If so, the number shall be flagged.
- E. Level IV data reports are to be forwarded to NJDEP/DSR within an agreed upon time frame following receipt of samples. As part of the bid process, the lab should include regular turnaround pricing, including time expected to data submission.

Appendix C: NJDEP/DSR Bid Form for Analysis of Water, Sediment and Fish Tissue, Unit Cost (in U.S. Dollars)

Parameter Suite	Method	Water	Sediment	Fish
PCB Congeners	1668A			
Dioxans/Furans	Method 1613B or equivalent HR GC/MS			
PBDEs	Method 1614 or equivalent HR GC/MS			
PFAS	Provide lab SOP or approved methods and the parameters that are quantified with method for all media. Multiple lists of parameters with separate pricing allowed.			
Pharmaceuticals and Personal Care Products (PPCPs)	Provide lab SOP or approved method and the parameters that are quantified with method for all media. Multiple lists of parameters with separate pricing allowed.			
PC Pesticides	Method 1699 or equivalent HR GC/MS			
PAHs	GC/MS or equivalent method			
Mercury (Hg)	Method 1631 or equivalent			
Methylmercury (MeHg)	Method 1630 or equivalent			
Percent Lipid	Standard Methods	NA	NA	
Percent Moisture	Standard Methods	NA		
Bulk and Dry Density	ASTM Method D 2937	NA		NA
Grain Size	Sieve and Hydrometer	NA		NA
Total Organic Carbon (TOC)	EPA Method 440			NA
Salinity	Standard Methods		NA	NA
pH	Standard Methods			NA
Fish tissue preparation	Provide SOP	NA	NA	
Shipping costs associated with the return of sampling coolers (~150 qt size)	Provide Estimate of Expected Unit Values			
Total				

NA = not applicable