

**U.S. Environmental Protection Agency
Great Lakes National Program Office (GLNPO)**

**Request for Proposal (RFP) for chemical analysis in fish tissue for the
Great Lakes Fish Monitoring Program (GLFMP)**

OVERVIEW

Federal Agency Name: Environmental Protection Agency, Great Lakes National Program Office

Funding Opportunity Title: USEPA Great Lakes National Program Office – Great Lakes Fish Monitoring Program Chemical Analysis

Announcement Type: Initial Announcement

Funding Opportunity Number: GL2005-2

Catalog of Federal Domestic Assistance (CFDA) Number: 66.469

Dates: For further information, see Section IV. The deadline for submissions is 5:00 PM Central Time, August 26.

Funding Opportunity Description: GLNPO is requesting proposals for a cooperative agreement for chemical analysis in fish tissue as part of the Great Lakes Fish Monitoring Program (GLFMP). A total of up to \$1,750,000 is targeted to be available over the 5 year period of the award (up to \$700,000 for the first 2 years, and up to \$1,050,000 for the remaining 3 years). Activities will include program management, sample analysis and one broad GCMS scan or a scan for a predetermined set of analytes (Table 3), GLFMP Steering Committee participation, cooperative monitoring program participation, data reporting and interpretation, and methods development (when necessary).

How to submit: For further information, see Section IV. Electronic submissions are required. If you do not have the capability to submit electronically, please contact Elizabeth Murphy at 312-353-4227 or murphy.elizabeth@epa.gov for information on how you may still apply under this announcement.

I. FUNDING OPPORTUNITY DESCRIPTION

Program History

The Great Lakes Fish Monitoring Program (GLFMP) began in 1980 as a cooperative effort by USEPA, U.S. Food and Drug Administration (no longer participating), U.S. Fish and Wildlife Service (now the Biological Resources Division of U.S. Geological Survey), and the eight Great Lakes States, to monitor and better define the fish contaminant problem in the Great Lakes. The GLFMP has, since its inception, served as a model for interagency cooperation and coordination. The program consists of two separate elements to monitor contaminants in whole predator fish and in game fish fillets.

Element 1, Open Lakes Trend Monitoring Program for whole fish, is directed at monitoring contaminant trends in the open water of the Great Lakes, and assisting in evaluating the impacts of contaminants on the fishery. The program provides for collection and analysis of whole-fish composites of lake trout (*Salvelinus namaycush*) in the size range from 600 mm to 700 mm from Lakes Michigan, Huron, Ontario, and Superior, and of walleye (*Stizostedion vitreum*) in the size range of 450 mm to 550 mm from Lake Erie. Composites of each species, consisting of five whole individual fish, are analyzed for contaminants to assess temporal trends in organic

contaminants in the open waters of the Great Lakes, using fish as biomonitors (Table 1). These data can also be used to assess the risks of such contaminants on the health of this important fishery, and on the wildlife that consume them.

Element 2, Game Fish Fillet Monitoring Program, is directed at monitoring potential human exposure to contaminants through consumption of popular sport species, as well as providing temporal trend data for top predator species, which have shorter exposures than the lake trout collected in Element 1. Coho salmon (*Oncorhynchus kisutch*) and Chinook salmon (*Oncorhynchus tshawytscha*) are collected from Lakes Michigan, Huron, Ontario, and Superior, and rainbow trout (*Salmo gairdneri*) are collected from Lake Erie during the fall spawning run. Composites of each species, consisting of five individual fish fillets, are analyzed for organic contaminants to assess potential human exposure (Table 2). These data complement those from Element 1. Trends are not meant to be concluded from Element 2, as the voluntary nature of the program does not allow for consistent collection of salmon from year to year. For trend analysis, GLNPO is currently using only the fish tissue contaminant data for coho salmon from Lake Michigan that are larger than 500 mm.

The GLFMP currently collects samples, for both elements of the program, from a set number of sites per lake (Table 3). Collections alternate on a yearly basis, with even and odd year collections. Element 1 samples consist of 5 whole fish composites for a total of 50 fish collected per site. Element 2 samples consist of 5 skin-on fillets for a total of 15 fish collected per site. All samples are provided to the Principal Investigator (PI) as approximately 10 grams of frozen homogenate. The GLFMP currently utilizes an established chemical parameter list for analysis (Table 3). At a minimum, the currently chemical parameter list for analysis must be met. However, recommendations for changes or additions to the analyte list by a potential principal investigator will be considered.

This funding opportunity is issued pursuant to (i) §104 of the Clean Water Act, authorizing EPA to conduct and promote the coordination and acceleration of, research, investigations, experiments, training, demonstrations, surveys, and studies relating to the cause, effects, extent, prevention, reduction, and elimination of pollution and (ii) §118 of the Clean Water Act calling for the achievement of the goals in the Great Lakes Water Quality Agreement, the principal goal of that Agreement being the restoration and maintenance of the chemical, physical, and biological integrity of the Great Lakes basin. Projects funded under this solicitation will advance protection and restoration of the Great Lakes ecosystem in support of Goal 4 (Healthy Communities and Ecosystems), Objective 3 (Ecosystems), Subobjective 3 (Improve the Health of Great Lakes Ecosystems) of USEPA's Strategic Plan, <http://www.epa.gov/ocfo/plan/plan.htm>.

Great Lakes Fish Monitoring Program Review

The full proceedings, individual panel member recommendations for the GLFMP to management, and a disclaimer regarding the eligibility of potential principal investigators can be found at, <http://www.epa.gov/glnpo/glindicators/fishtoxics/fishc.html>.

In support of Subobjective 4.3.3, and consistent with EPA Order 5700.7, <http://www.epa.gov/ogd/grants/award/5700.7.pdf>, on environmental results, awards issued pursuant to the respective topics above will be expected to accomplish various environmental outcomes and include various environmental outputs.

Expected Environmental Outcomes/Outputs

- Measure the concentrations of priority bioaccumulative organic chemicals in top predator fish in the Great Lakes to a known degree of confidence in order to detect a temporal trend in each lake.
- Assess potential human exposure to organic contaminants found in these fish.
- Provide information on new compounds of concern entering the lakes ecosystem.

Revised Data Quality Objective for Element 1 (Open Lakes Trend Monitoring Program for whole fish)

- Detect trends in concentration of 0.1 mg/kg/year at the 95% confidence level based on three consecutive sampling periods (6 years, as sites are sampled every other year) for a specific site (Saugatuck, Apostle Islands, etc.), with a power of 80% or greater.

Expectations of the Award Recipient

The recipient of the cooperative agreement will be responsible for program management, sample analysis and one broad GCMS scan or a scan for a predetermined set of analytes (Table 3), GLFMP Steering Committee participation, cooperative monitoring program participation, data reporting and interpretation, and methods development (when necessary). The annual number of samples collected is approximately 350 plus any necessary additional quality assurance samples. In addition to the samples, the recipient of the award will be required to analyze approximately 10 check samples per year and a set of cooperative monitoring check standards. The check samples are sub-samples of a homogenate of Great Lakes lake trout that are used to ensure data comparability across laboratories and through time. One check sample will be analyzed with each batch of 10 environmental samples. These check samples are treated as environmental samples and are required in addition to spikes, duplicates and other typical Quality Assurance samples. The cooperative monitoring check standards will be provided to the analytical lab and will be analyzed with other samples as a way to compare all Great Lakes analytical laboratories in accordance with the Environment Canada/GLNPO cooperative monitoring program. Prior to the receipt or analysis of any environmental samples the award recipient will be required to demonstrate comparability with existing data sets collected under this program. This will be demonstrated through the analysis of a minimum of 10 check samples. These data will be received and evaluated by the EPA Project Officer prior to analysis of actual environmental samples. At the discretion of the program officer, the PI may be required to conduct a pre-award performance evaluation through the analysis of a standard reference sample to be provided by GLNPO.

Access to the GLFMP historical archive is available upon request from the GLNPO Project Officer.

There is a possibility that some changes to the analyte list and/or sampling sites may occur at some point in the future. Such changes will be based on program and principal investigator needs. In proposals, budgets should be based on the current GLFMP sampling and chemical scheme described in the RFP. Applicants are requested to use sampling and analytical methods that are comparable to the analytical methods and sampling methods previously used by the GLFMP (<http://www.epa.gov/glnpo/glindicators/fishtoxics/fishc.html>) to ensure comparability and continuity in data sets. However, development and optimization of methods are encouraged.

Management/operation of GLFMP programs involves the following eligible activities:

Overall Program Management - The PI is responsible for ensuring efficient operation of the program. This includes, but is not limited to:

Sample analysis, data management, data interpretation, GLFMP Steering Committee participation, analytical methods development and optimization, analytical inter-comparison studies to satisfy the binational cooperative monitoring program, and submission of analytical data in the required reporting format.

Frequent and effective communication is necessary between the PI and the GLNPO project officer to resolve problems, discuss status of analysis and results, etc.

Steering Committee - The PI will actively participate in the GLFMP steering committee. The Steering Committee is responsible for determining the future direction of the GLFMP and assessing and improving the quality of the present program through quality assurance, methods comparability studies, reporting etc. As a participant on the Steering Committee, the PI will be involved in evaluation of data quality indicators, revision to the target analyte list, assessment of the adequacy of the measurement process, result reporting and outreach, development of models, and assessment of the degree of accuracy of meeting the GLFMP data quality objective.

The Steering Committee consists of representatives from participating Great Lakes states and tribes, federal agencies, and GLNPO. The PI will participate in bi-monthly conference calls and at one to two Steering Committee workshops, most often requiring travel to GLNPO in Chicago, annually.

Data reporting and interpretation - Electronic data submissions, annual data summary and interpretative reports, and annual Quality Assurance reports are the minimum requirement for data reporting. Field, homogenization, and analytical data must be available in the specified reporting format to the GLNPO project officer within a specified time range. **Total PCB analysis data are to be submitted within 10 months of the receipt of homogenized samples in the laboratory. Remaining chemical analysis data are to be submitted within 1 year of the receipt of homogenized samples in the laboratory.** Further details regarding this Reporting Standard are available at http://www.epa.gov/glnpo/monitoring/data_proj/glenda/index.html. Data sets will not be considered final until formally accepted in writing by the USEPA Project Officer.

The award recipient and USEPA Project Officer will work cooperatively in conducting statistical analyses and in completing a final trend report. However, the USEPA Project Officer will rely heavily upon the statistical expertise of the principal investigator. This report will include the above data, as well as data generated in prior years of this program (these data will be supplied by USEPA). The award recipient's final report would include recommendations for the future design of the program, including statistical power. The data and reports will be widely disseminated as government reports, journal articles and postings on the Internet.

Methods development - Methods development may be necessary as the analyte list is modified in response to GLFMP Steering Committee recommendations. Existing methods should be used when possible.

Binational Cooperative Monitoring Program - The Great Lakes National Program Office and Environment Canada have entered into a cooperative monitoring program that will focus on one lake every year cooperatively and rotate throughout the basin. In order to satisfy the cooperative fish contaminant monitoring needs, a three phase plan will be implemented that will involve an inter-laboratory comparison through a survey, injectable ready standard, and a standard homogenate analysis. The analytical lab funded to run the GLFMP Chemical Analysis program will be required to participate in the cooperative monitoring program.

Information about the GLFMP, including the GLFMP collection and homogenization Quality Assurance Project Plan (QAPP), is on the Internet at: <http://www.epa.gov/glnpo/glindicators/fishtoxics/fishc.html>

Great Lakes Fish Monitoring Program Review

The full proceedings, individual panel member recommendations for the GLFMP to management, and a disclaimer regarding the eligibility of potential principal investigators can be found at, <http://www.epa.gov/glnpo/glindicators/fishtoxics/fishc.html>.

II. AWARD INFORMATION

GLNPO is requesting that applicants submit proposals for a total of up to \$1,750,000 over a 5 year period of GLFMP operation. Of this total, up to \$700,000 would be targeted to be available for the first 2 years, and up to \$1,050,000 would be targeted to be available for the remaining 3 years. A cooperative agreement for the GLFMP *Chemical Analysis* program will be awarded at the conclusion of the current RFP review. The level of funding for the Chemical Analysis program will be that deemed appropriate by GLNPO.

Partial Funding - USEPA reserves the right to partially fund submissions by funding discrete activities, portions, or phases of the proposed project. If USEPA decides to partially fund the proposed project, it will do so in a manner that does not prejudice any applicants or affect the basis upon which the proposed project, or portion thereof, was evaluated and selected, and that maintains the integrity of the competition and the selection/evaluation process.

Type of Award – The successful applicant will be issued a cooperative agreement. EPA anticipates substantial involvement and communication with the principal investigator (via telephone calls, conference calls, e-mails, face-to-face meetings) regarding the operation of and planning for the program. GLNPO anticipates that one award will be made. However, the U.S. EPA reserves the right to reject all proposals and make no awards.

III. ELIGIBILITY AND MATCHING

Applicant Eligibility - State water pollution control agencies, interstate agencies, other public or nonprofit private agencies, institutions, organizations, and individuals for the purposes stated in Section 104 (a) (1) of the Clean Water Act, 33 U.S.C. Section 1254(a)(1). "For-profit" organizations are not eligible. Since other federal agencies are public agencies or institutions, they are eligible to compete. An applicant's failure to meet eligibility criteria by the time of any award will preclude USEPA from making an award. *Chemical Analysis* program proposals submitted without demonstrated expertise in PCB congener analysis and homolog specific toxaphene analysis will not be considered.

Match – A match is not required, but cost leveraging is contained within the criteria in Section V which will be evaluated by reviewers during evaluations.

Chemical Analysis Criteria – Proposal contains parameters, contaminants and method detection limits, set by the GLFMP list of chemical parameters for analysis (Table 3).

IV. APPLICATION AND SUBMISSION

The applicant selected for the award will be required to include a DUNS number with its application. A DUNS number is available to you without cost from: <http://www.dnb.com/us/>. More information is available at: http://www.whitehouse.gov/omb/grants/duns_num_guide.pdf

Applicants must submit information relating to the programmatic capability criteria to be evaluated under the ranking factor(s) in section V of the announcement. EPA will consider information from other sources including Agency files.

All information needed by applicants regarding information to be submitted is contained in the RFP and on the GLNPO funding site at <http://www.epa.gov/glnpo/fund/rfp/>

Format – Proposals must not exceed fifteen pages in length. Pages in excess of 15 will not be evaluated in the proposal. Curriculum vitae of principal investigators and other personnel critical to the proposed work must be included as appendices and will not count as proposal pages.

Include the following in your Proposal:

1. Applicant – Applicant Organization Name, Contact Person's Title and Name, Business Address, City, State, Business Phone, Fax and E-mail.
2. Project Title - Identify which program area or areas of the GLFMP are being considered.
3. Abstract – Less than one page.
4. Problem Statement and Background
5. Proposed Work – Outline what will be done and how, including proposed methods. Include experience and previous projects involving analysis for trace organics. At the discretion of the program officer, the PI may be required to conduct a pre-award performance evaluation through the analysis of a standard reference sample to be provided by GLNPO.
6. Project Milestones/Timeline – Specify milestones and final products and projected due dates (Month/Year) as a way to measure progress and environmental results.

7. Budget – Note how USEPA funds (USEPA Share) and recipient funds will be used for personnel/salaries, fringe benefits, travel, equipment, supplies, contract costs, and other costs. You may include a separate line for indirect costs if your organization has in place (or will negotiate) an “indirect cost rate” from a cognizant Federal agency. The USEPA share represents the total that the Applicant expects to request from USEPA for the project’s duration. Submit an approximate price breakdown for the incremental cost of measuring each additional analyte in the extended program.
8. Other Active Cooperative agreements/Projects.
9. Describe any proposed collaboration on this project, other than with USEPA GLNPO. (Additional collaboration is not required.)
10. Expertise. Describe the expertise of the PIs in the proposed program area, including the ability to demonstrate expertise in the analysis of biological media for bioaccumulative chemicals. Expertise may be demonstrated through published papers and reports and/or successful completion of cooperative agreements or contracts with other organizations. For projects involving the use of collection of environmental data, describe the applicant’s timely compliance with current American National Standards Specifications and Guidelines for Quality Systems for Environmental Data Collection and Environmental Technology Programs, ANSI/ASQC E4-1994.
11. Appendices (not included in page limit): Curriculum Vitae of PI/PIs and critical staff. Any relevant letters from collaborators.

Lab QC samples (duplicates, surrogate and matrix spikes, blanks, basinwide common reference standard, etc.) are also required. Currently lab matrix blanks are run at a rate of 1 per analytical batch. Adjustments from these quality assurance sample frequencies may be suggested with justification.

Travel: For the purpose of cost comparisons, the proposal shall include travel costs for the PI/PIs and one graduate student or assistant to attend one professional meeting and one meeting with GLNPO per year.

A larger, extended program analyte list will be used once during the 5 year period and a simpler, base program analyte list will be used for the other 4 years of analysis. Please break down analytical costs by extent of analysis.

Submission – Electronic submissions are required. Attach a copy of the file, in Word, WordPerfect, or pdf format, to Murphy.elizabeth@epa.gov. Hard copies do not have to be mailed. Applicants will receive confirmation that their proposal has been received via e-mail. If you do not have the capability to submit electronically, please contact Elizabeth Murphy at 312-353-4227 or murphy.elizabeth@epa.gov for information on how you may still apply under this announcement.

Anticipated Start and End Dates – The cooperative agreement start dates and end dates are planned as December 1, 2005 – November 30, 2010. Applicants should also consider the federal requirement that projects involving data collection require an approved Quality Assurance Project Plan prior to commencing environmental data collection or analysis. Annual data reports are required, as well as a final report covering the full project period.

Confidentiality - In accordance with 40 CFR 2.203, applicants may claim all or a portion of their project submission as confidential business information. EPA will evaluate confidentiality claims in accordance with 40 CFR Part 2. Applicants must clearly mark submissions or portions thereof they claim as confidential. If no claim of confidentiality is made, EPA is not required to make the inquiry to the applicant otherwise required by 40 CFR 2.204(c)(2) prior to disclosure. Note that under Public Law No. 105-277, data produced under an award is subject to the Freedom of Information Act.

Deadline

Deadline for Submission	5:00 PM Central Time, August 26, 2005
Reviews	Through September 16, 2005
Applicant Notified	September 26, 2005
Application Package Due	Through October 28, 2005
Final Decision/Award	August – December 30, 2005

Late applications will not be reviewed or considered.

Reimbursement of pre-award costs incurred up to 90 days prior to the cooperative agreement start date will be considered on a case-by-case basis.

V. APPLICANT REVIEW

Criteria – Proposals will be evaluated according to these criteria:

(30%) Programmatic Capability - The technical capability of the applicant to successfully carry out a project taking into account such factors as the applicant's (1) past performance in successfully completing projects similar in size, scope, and relevance to the proposed project, (2) history of meeting reporting requirements on prior or current assistance agreements and submitting acceptable final technical reports and applicable closeout documentation, (3) organizational experience and plan for timely and successfully achieving the objectives of the project, and (4) staff expertise/ qualifications, staff knowledge, and resources (such as access to laboratory space, instrumentation, and personnel sufficient to complete the work described in the RFP within the prescribed time frame) or the ability to obtain them, to successfully achieve the goals of the project. (Refer also to EPA Order 5700.8 < http://www.epa.gov/ogd/grants/award/5700_8.pdf >.) For projects involving use or collection of environmental data, the applicant's timely compliance with current American National Standard Specifications and Guidelines for Quality Systems for Environmental Data Collection and Environmental Technology Programs, ANSI/ASQC E4-1994 will be considered. In addition to information provided by the applicant, in its submission, EPA may consider information from other sources including Agency files. If an applicant does not have any past performance and/or reporting history (items "1" and "2" above) it will receive a neutral evaluation for those elements of programmatic capability.

(20%) Scientific/Professional Merit - Soundness of technical approach, including scientific design, methods, and data interpretation.

(20%) Appropriate budget - Reasonable budgetary justification of the project, including cost of analysis, meeting administrative principle requirements of 40CFR Part 30 /circular A-21 or A-122, or 40CFR Part 31 /circular A-87, and applicable administrative requirements for audit and administration.

(15%) Management structure – The management structure is sufficient for successful project completion, successful and broad reporting, and overall vision in terms of the future direction of the GLFMP.

(10%) Progress Measurement/ Environmental Results - Adequate description of plan to measurement progress toward achieving outputs and outcomes.

(5%) Leveraging - Extent the applicant demonstrates (1) how they will coordinate the use of EPA funding with other federal and/or non federal sources of funds to leverage additional resources to carry out the proposed project(s) and/or (2) that EPA funding will complement activities relevant to the proposed project(s) carried out by the applicant with other sources of funds or resources. Applicants may use their own funds or other resources for a voluntary match or cost share if the standards at 40 CFR 30.23 or 40 CFR 31.24, as applicable, are met. Only eligible and allowable costs may be used for matches or cost shares. Other federal cooperative agreements may not be used as matches or cost shares without specific statutory authority (e.g. HUD's

Community Development Block Grants). The submittal must describe how the applicant will obtain the leveraged resources and what role EPA funding will play in the overall project.

Review and Selection Process – Selection recommendations will be based on an evaluation of projects against the criteria listed above.

Criteria will be evaluated in an extensive review process:

- USEPA will screen submissions upon receipt for eligibility, for conformance to the announcement provisions.
- A GLNPO technical review team will then be convened to evaluate and score each proposal using the above criteria and weighting to make a recommendation of the top three proposals to GLNPO management. The technical review team will include at least three USEPA reviewers, including the GLNPO GLFMP Manager, and two external reviewers.
- The technical review team will discuss the top three proposals with management. In making the final selection recommendation, in addition to considering the evaluation of the proposed project against the general and applicable specific criteria, management may also consider the scientific/ professional merit of the projects, selecting a technically sound project that meets both the goals and objectives of GLNPO and the PI/PIs.
- The final decision will be made by the EPA Great Lakes Program Manager based on the final proposal and Federal application package submitted by the chosen applicant.

VI. AWARD ADMINISTRATION

Notification - We will confirm proposal receipt via a reply e-mail. Contact Murphy.elizabeth@epa.gov or 312-353-4227 if you do not receive a confirmation e-mail. GLNPO will contact all applicants to notify them whether or not they will be asked to submit an Application Package. If a proposal is selected for funding, the applicant will be required to submit a full proposal, an application for federal assistance, and other required assistance documents.

Issuance of Awards - USEPA reserves the right to negotiate appropriate changes in workplans after the selection and before the final award. USEPA has 60 days to issue an award following receipt of the complete, fundable Application Package. Final funding decisions are based upon the Application Package.

Dispute Resolution Process - Assistance agreement competition-related disputes involving any applicant, including Federal applicants, will be resolved in accordance with the dispute resolution procedures published in 70 FR (Federal Register) 3629, 3630 (January 26, 2005) which can be found at <http://a257.g.akamaitech.net/7/257/2422/01jan20051800/edocket.access.gpo.gov/2005/05-1371.htm>. Copies of these procedures may also be requested by contacting [Murphy.elizabeth@epa.gov or 312-353-4227].

Quality Assurance - All projects that use or collect environmental data must have an approved Quality System. A Quality Management Plan (QMP) that adequately describes the Quality System must be approved by the GLNPO Quality Assurance Manager and IADN Project Officer 30 days prior to commencement of data collection. Costs associated with data collection are not allowable costs until the Quality System is approved. Contact GLNPO's Quality Assurance Manager, Louis Blume (312-353-2317) with questions.

Pre-award Review for Administrative Capability - Non-profit applicants that are recommended for funding will be subject to pre-award administrative capability reviews consistent with paragraphs 8.b, 8.c, and 9.d of EPA Order 5700.8 < http://www.epa.gov/ogd/grants/award/5700_8.pdf > and may be required to fill out and document an "Administrative Capability" form.

Administrative and Reporting Requirements - The successful applicant will be required to adhere to the federal grants requirements, particularly those found in applicable OMB circulars on Cost Principles (A-21, A-87, or A-122), Administrative Requirements (A-102 or 110), and Audit Requirements (A-133) available from <http://www.whitehouse.gov/omb/grants/>. This includes government-wide requirements pertaining to accounting

standards, lobbying, minority or woman business enterprise, publication, meetings, construction, and disposition of property. EPA regulations governing assistance programs and recipients are codified in Title 40 of the Code of Federal Regulations. Those requirements, GLNPO-specific requirements currently in effect, and the application materials that will be needed by applicants ultimately selected in this process can be found at <http://www.epa.gov/grtlakes/fund/projreqs.html> and <http://www.epa.gov/grtlakes/fund/appforms.html>. The successful federal applicant will be required to comply with the OMB Circular and appropriate sections of Title 40 of the Code of Federal Regulations determined applicable by GLNPO. This determination will be embodied in the terms and conditions of an interagency agreement. Please note that as of the date of this announcement, the information on the GLNPO website has not yet been revised to address all EPA requirements announced in fiscal year 2005.

Note that under Public Law No. 105-277, data produced under an EPA award is subject to the Freedom of Information Act. The PI/PIs will be required to submit all data in the electronic format required by the data verification application in the USEPA GLNPO Reporting Standard for Contaminant Analysis of Fish Tissue. Further details regarding this Reporting Standard are available at http://www.epa.gov/glnpo/monitoring/data_proj/glenda/index.html.

VII. AGENCY CONTACT

According to USEPA's Competition Policy and USEPA guidance, contacts may provide appropriate assistance to help potential applicants determine whether the applicant itself or the applicant's proposed project is eligible for funding, to assist with administrative issues relating to submission, and to respond to requests for clarification of the announcement. Applicants are solely responsible for the content of their submissions.

Contact:
Elizabeth Murphy
U.S. EPA Great Lakes National Program Office
77 West Jackson Boulevard, Mail Code G-17J
Chicago, IL 60604
Phone: 312-353-4227
Fax: 312-353-2018
E-mail: Murphy.elizabeth@epa.gov

VIII. OTHER INFORMATION

EPA is funding this recipient to support or stimulate: the recipient's independent interest in studying persistent bioaccumulative toxics in the Great Lakes fish tissue, education and training of graduate students in chemical analysis, and the development of scientific information to be used in scientific publications that contribute to the body of knowledge in this area and which add to the prestige of the university and the principal investigator.

Clarification/Revisions - Consistent with EPA's Policy for Competition of Assistance Agreements, EPA Order 5700.5A1 http://www.epa.gov/ogd/competition/5700_5A1.pdf, applicants may be contacted for clarification on certain portions of their project submissions and/or for the purpose of negotiating changes in project terms and amounts if appropriate.

Table 1. Element 1 (Open Water Trend Monitoring Program for whole fish) sampling locations.

Lake	Estimated Number of Composite Samples	Sample Type	Location and Grid Number	Year	Size
Superior	10	Lake Trout	Apostle Islands #1311	Even	600 – 700 mm
			Keewenaw Pt. #4028	Odd	600 – 700 mm
Michigan	10	Lake Trout	Saugatuck #2210	Even	600 – 700 mm
			Sturgeon Bay #0906	Odd	600 – 700 mm
Huron	10	Lake Trout	Rockport # 0710	Even	600 – 700 mm
			Port Austin #141	Odd	600 – 700 mm
Erie	10	Walleye	Middle Bass Island #0904	Even	450 – 550 mm
			Dunkirk # 0424	Odd	450 – 550 mm
Ontario	10	Lake Trout	Oswego #0623	Even	600 – 700 mm
			North Hamlin # 0713	Odd	600 – 700 mm

Table 2. Element 2 (Game Fish Fillet Monitoring Program) sampling locations.

Lake	Estimated Number of Composite Samples	Sample Type	Size
Superior	6	Chinook	S, M, and L
	6	Coho	S, M, and L
Michigan	6	Chinook	S, M, and L
	6	Coho	S, M, and L
Huron	24	Chinook	S, M, and L
	24	Coho	S, M, and L
Erie	6	Rainbow Trout	S, M, and L
	3	Rainbow Trout	S, M, and L
Ontario	6	Chinook	S, M, and L
	6	Coho	S, M, and L

Table 3. List of organic chemicals to be analyzed in fish for Base and Extended Programs and estimated Method Detection Limit (MDL) expressed as ng/g wet fish tissue. Those analytes listed in bold and marked with an asterisk are to be included in the extended program.

Analyte	MDL, ng/g
PCB congeners	0.002 – 1.0
PCB co-planars	0.002 – 1.0
Hexachlorobenzene	1
Octachlorostyrene	0.83
δ-BHC (Lindane)	0.606
α-BHC	4.7
Dieldrin	0.44
Heptachlor epoxide b	0.52
Cis-chlordane	1.814
Trans-chlordane	0.488
Cis-nonachlor	1.95
Trans-nonachlor	1.48
Oxychlordane	1.94
pp,-DDT	0.66
pp,-DDE	0.74
pp,-DDD	0.52
Endrin	2.86
Mirex (Lake Ontario only)	1.52
Toxaphene&homologs	24.6
PBDEs	0.001 – .10
Hg	0.521
Fraction lipid	5%
*PCDD/Fs	0.3 - 25
*PCNs	0.2 – 6.0
*Dacthal	1.0
*PBB-153	0.1 - .2
*PFOS	0.5

***A scan for specified list of additional analytes, such as perfluorinated compounds, musk fragrances, APEs, pharmaceuticals and other personal care products (pseudo-persistence), other flame retardants, etc., will be required for one year of analysis. The final analyte list for the extended program will be decided by the GLFMP steering committee. Potential principal investigators are encouraged to recommend additional or alternative analytes for this Extended Program year.**