

Chemical analyses of fish samples collected within the Joint Danube Survey 4

Terms of Reference

April 2019



The winner of the open tender for chemical analysis of fish samples collected during the Fourth Joint Danube Survey will be supported by DG ENV LIFE and receive funding from the European Union.

Subject

The ICPDR announces tender to perform Analytical Services related to the analysis of:

Matrix	Substances	CAS No.	WFD EQS [µg/kg wet weight]
Fish	Dicofol	115-32-2	33
Fish	Perfluorooctane sulfonic acid and its derivatives (PFOS)	1763-23-1	9.1
Fish	Brominated diphenylethers (sum of BDE28, BDE 47, BDE99, BDE153 and BDE154	not applicable	0.0085
Fish	Hexabromocyclododecanes (HBCDD) 1,3,5,7,9,11-HBCDD (CAS-Nr. 25637-99-4), 1,2,5,6,9,10-HBCDD (CAS-Nr. 3194-55-6), α -HBCDD (CAS-Nr. 134237-50-6), β -HBCDD (CAS-Nr. 134237-51-7) and γ -HBCDD (CAS-Nr. 134237-52-8)	not applicable	167
Fish	Heptachlor and heptachlor epoxide	76-44-8/ 1024-57-3	0.0067

within the Joint Danube Survey 4 (hereafter referred to as the "JDS4").

Technical specifications

Background - Joint Danube Survey 4

The Joint Danube Survey 4 (JDS4) is organised by the Monitoring and Assessment Expert Group (MA EG) of the International Commission for the Protection of the Danube River (ICPDR).

The overall objective of the fourth Joint Danube Survey (JDS4) is to undertake an international longitudinal survey that would produce comparable and reliable information on water quality for the whole of the length of the Danube River including its major tributaries on a short-term basis. Outcomes of the JDS4 should cover information gaps identified in the frame of the implementation of the EU Water Framework Directive (WFD).

Samples, collected during JDS4, will be transported by a shuttle or courier service to the JDS4 Central Storage Facility (WRI Bratislava) in a frozen state, lyophilized and then re-distributed for analyses of specific sets of parameters to the JDS4 laboratories.

Sample types and sampling stations

During the JDS4, fish samples will be taken from up to 50 surface water sampling stations. Fish samples will be processed centrally and will be provided as a homogenised lyophilizate.

Laboratory analyses

The lyophilised samples will be distributed to the JDS4 laboratories preferably in one batch.

Reporting

A detailed technical report will be compiled for all parameters and related metadata obtained during the JDS4 taking into account the ICPDR reporting format. Furthermore, all methods for sampling, pre-treatment, preservation, storage, analysis of the samples, etc. will be fully referenced/documentated. The summary technical report will be compiled from the technical reports on particular quality elements and parameters investigated during the survey. The Draft Final Report will be submitted to the MA EG for commenting. It is foreseen that the final approval of the report will be given by the ICPDR in winter 2020. Following the approval, the Final Report will be edited and published.

All data obtained within the JDS4 will be stored also in the ICPDR Water Quality Database (WQD). JDS4 Reference Laboratories have to provide all raw data accompanied with relevant metadata in a format allowing for their direct upload into the WQD.

Details of the requested Services

The Tenderer is requested to provide the following:

- a) Storage of the samples until analysis;
- b) Analysis of up to 50 fish samples according to Annex A;
- c) Reporting.

Time schedule

JDS4 will start on **29 June 2019**. Sampling of fish species for target analysis is planned for **July 2019**. The availability of lyophilised fish samples is expected in the second half of **September 2019**.

The analyses of lyophilised fish samples collected during the survey shall be completed by the contracted JDS4 laboratories (the Tenderers) by **10 January 2020**.

Raw data and metadata delivered in a format allowing for their upload into the ICPDR Water Quality Database and Final Report must be completed by the contracted JDS4 laboratories (the Tenderers) by **31 January 2020**.

It is possible to tender for single compounds of the determinands list or for the complete list.

Tender documentation to be filled out by the Tenderer

The Tenderer is requested to fill out in the bid the following information:

1. **List of determinands and method performance characteristics** in a format attached hereto as **Annex A**;
2. **Breakdown of Prices**, attached hereto as **Annex B**;

The above documents will form a part of the Contract between the successful Tenderer and the ICPDR.

The tender documents must be sent in accordance with the Instruction for Tenderers before 21 May 2019, 12:00 CET.

Price and Payment

In full consideration for the complete and satisfactory performance of the Analytical Services under this Tender, the ICPDR shall pay the successful Tenderer a price up to the amount indicated in Annex B.

Payment will be done only for the number of samples effectively analysed and reported using the unit prices per analysis from the Breakdown of Prices in Annex B. The ICPDR reserves the right to reduce the number of analyses.

To fulfil the requirements of the JDS4 Analytical Programme it may happen that additional samples are necessary to be analysed. The number of such samples shall be agreed upon prior to their analysis by both parties in a written form and the final calculation of the price has to be based on the unit prices per analysis from the Breakdown of Prices in Annex B.

The ICPDR shall effect payments to the successful Tenderer based on the Contract, which will be prepared by the ICPDR after the tender evaluation. Payment shall be issued in one instalment upon delivery of the Final Report.

Special Conditions

The ICPDR shall arrange delivery of the lyophilised fish samples to the laboratory of the Tenderer. Announcement of the samples' delivery shall be given to the Tenderer minimum one working day prior to the actual transport. The ICPDR shall be responsible for maintaining the appropriate conditions at sampling, pre-treatment and transport of samples. A description of the conditions at sampling, transport and procedures for pre-treatment of samples shall be sent to the Tenderer upon request.

The Tenderer shall store samples immediately after their delivery until analysis. Detailed conditions of the sample storage shall be provided to the ICPDR in a written form (as a part of the Final Report).

The Tenderer shall provide the ICPDR with a detailed list of methodologies used for the sample preparation in the laboratory and analyses (both in bidding documents and the Final Report).

If needed, the Tenderer shall closely co-operate with the ICPDR Secretariat, particularly at the definition and analyses of Quality Control (QC) samples (duplicates, field blanks) for the Analytical Quality Control (AQC) as applicable and appropriate. Analyses of up to 6 QC samples shall be free of charge.

The Tenderer has to demonstrate the AQC during the analyses, ensuring traceability of results by analysing CRMs. The AQC procedures and their results must be clearly described in the Final Report.

During the laboratory work with the JDS4 samples, the Tenderer shall be ready to accept a possible inspection of their procedures by the representatives of the ICPDR and its Monitoring and Assessment (MA) Expert Group after pre-announcement.

The Tenderer is obliged to submit an evidence of participation in the proficiency testing schemes.

Accreditation of the Tenderer is of advantage and an evidence of this should be submitted.

The limits of quantification (LOQs) of the used methodologies for the substances analysed within this contract must not be higher than those listed in the Environmental Quality Standard Directive (2008/105/EC) and its latest update.

Raw data accompanied by relevant metadata have to be delivered in a format prescribed by the ICPDR latest by **31 January 2020**.

All communication and reporting must be done in English.

ANNEX A

TO BE FILLED OUT BY THE TENDERER

List of determinands and performance characteristics of the used methodologies

Fish

Parameter	CAS No.	EQS Fish 2013/39/EU [µg/kg wet weight]	Method	LOD [µg/kg wet weight]	LOQ [µg/kg wet weight]	Required sample amount (lyophilized material) [g]
Dicofol	115-32-2	33				
Perfluorooctane sulfonic acid and its derivatives (PFOS)	1763-23-1	9.1				
Brominated diphenylethers	not applicable	0.0085				
Hexabromocyclododecanes (HBCDD)	not applicable	167				
Heptachlor and heptachlor epoxide	76-44-8/ 1024-57-3	0.0067				

ANNEX B

TO BE FILLED OUT BY THE TENDERER

Breakdown of prices

In case that several parameters listed below are offered within one single analysis with one price please indicate this clearly in the table.

Parameter	Price per sample [EUR]*
Dicofol	
Perfluorooctane sulfonic acid and its derivatives (PFOS)	
Brominated diphenylethers	
Hexabromocyclododecanes (HBCDD)	
Heptachlor and heptachlor epoxide	

*Please insert the net price as the ICPDR is not a VAT payer.