

# Analytical Core Sample Priority Analysis Plan

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The Analytical Core (AC) is a support core that provides analytical services to isrp Projects, including extraction and instrument method development and congener-specific analyses of laboratory and environmental samples. A Sample Priority Analysis Plan is needed because of the large volume of samples the AC handles for many different studies, the limited instrument and personnel time available for these samples, and the many challenges associated with complex matrices and environments.

## I. Priority Criteria

The AC requests that Project leaders provide the following information about the study to be performed. This will be used to prioritize instrument and personnel time and provide the service as quickly as possible to isrp investigators. The AC will re-prioritize analytical services at least twice a year. If there are problems regarding AC usage, the isrp Executive Committee will discuss and, if necessary, set analytical priorities to ensure that all Research Projects receive necessary service in a timely manner.

- A. Specific hypotheses and Project Aims to be addressed
- B. Number of samples of each matrix expected
- C. Manuscript to be written, including working title and expected authors
- D. Instrument(s) needed
- E. Personnel to do the work

## II. Guidance for Selecting Personnel

The identification of the analyst is particularly important. Congener-specific PCB analysis of complex matrices requires the time of a skilled technician and oversight by PhD level researchers. To prioritize service, the AC requests that the Project Leaders identify the specific individuals who are needed and what activities the individuals will be performing.

Example activities that need personnel identified include: method development for extraction; development of a QA/QC plan; extraction of samples; derivatization for OH-PCB analysis; method development for instrumental analysis; sample instrumental analysis; analysis of instrument or extraction QC data; sample instrumental interpretation (peak integration of complex signals); database support; manuscript preparation.

## III. Planned Studies

We will prioritize analytical studies that are defined in the isrp competitive renewal and meet the A-E priority criteria.