Environmental Analysis

The Analytical Chemistry team provides a range of analytical services for both research and commercial projects. Our laboratories support various studies such as low level tritium analysis in aqueous samples, trace metal analysis in aquatic environments, pollutant transport in ground water and emission of volatile and waste chemicals in the environment. We have highly qualified staff experienced in specialised analysis to solve complex environmental problems.

Key Capabilities

- Complex method development and specialised training programs in complex analysis (e.g. boron in rutile and radiochemical analysis)
- Trace element analysis in complex biological, geological, aqueous and environmental samples
- Measurement of anions in aqueous samples
- Low level tritium analysis in groundwaters
- Qualitative and quantitative analysis of
  - Naturally occurring radioactive material (NORM)
  - Gross $\alpha/\beta$ radiation
  - Total radioactivity

Analytical Facilities

- Ion Chromatograph
- Microwave digestion of geological materials and biological tissues
- Inductively Coupled Plasma Mass Spectrometer (ICP-MS)
- Inductively Coupled Atomic Emission Spectrometer (ICP-AES)
- Gas Chromatograph Mass Spectrometer (GCMS)
- Liquid Chromatograph Mass Spectrometer (LCMS)
- Capillary Electrophoresis
- X-ray Fluorescence Spectrometer (XRF)
- X-ray Diffraction Spectrometer (XRD)
- Secondary Ion Mass Spectrometry (SIMS)
- Liquid Scintillation Counter
- High Resolution Gamma Spectrometer
- Thermometric Titration

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