

Trusted Technical Expertise.

Columbia Analytical Services, Inc. is a full-service national laboratory network established in 1986 and headquartered in Kelso, Washington. With locations across the United States, we continue to exceed client expectations by providing sound analytical science, unsurpassed testing quality and excellent customer service.



Columbia Analytical specializes in the testing analysis of sediment, including from marine and freshwater. Much of our analytical work is in support of dredging, remedial investigation, feasibility studies and risk assessment. In many cases, this requires extremely low-level detection limits. These types of samples present unique challenges to the laboratory due to analytical interferences caused by the matrices. In addition to supporting marine and freshwater aquatic sample analyses throughout the United States, our laboratories also possess the necessary permits to accept samples from foreign countries.

Columbia Analytical has developed and implemented cleanup procedures and method modifications to specifically deal with these types of matrices. We have also developed the expertise necessary to perform complex ultra-trace analyses. These low-level analyses of sediment, tissue and water use advanced specialized instrumentation. This instrumentation includes Inductively Coupled Plasma Mass Spectroscopy (ICP/MS), purge and trap cold vapor atomic fluorescence spectrometry, High-Resolution Gas Chromatography/Mass Spectroscopy (HRGC/MS), and High-Resolution Gas Chromatography/High-Resolution Mass Spectrometry (HRGC/HRMS).

Our freshwater and marine sediment and tissue services include:

Freshwater Sediment;
Marine Sediment;
Tissue Analysis;
Low-level Water; and
Marine Water.

Specialties:

PCB Congeners and Aroclors
Low-level PCB Congeners by 1668
Tributyltins/Organometallics
Ultra Low-level Metals
Dioxins/Furans
PAHs and Alkylated Homologs
Freezedrying Sample Preparation
Solid Phase Extraction