

ATI Wah Chang — Environmental, Inc. Midwest Laboratory

ABOUT ENVIRONMENTAL, INC. MIDWEST LABORATORY

Environmental, Inc., Midwest Laboratory (EIML), a business unit of ATI Wah Chang, has conducted radiological monitoring programs since 1969. The programs have included the analysis of ambient gamma radiation (TLD), air, water, milk, soil, vegetables, fauna and flora, eggs, and bottom sediments for a variety of radioactive isotopes. We are staffed and equipped to provide a full spectrum of radiometric analysis with the most current procedures and techniques. We perform analysis of air, water, milk, food crops, vegetation, soil, sediment, animals, and aquatic life samples collected near nuclear facilities and environmental sites to monitor for potential releases of radioactivity. EIML's capabilities include a full range of highly sophisticated instrumentation available for radiochemical analyses, maintained in a specially designed, climate-controlled laboratory. These systems provide for the highest quality data with a minimum of handling, thus reducing the chance for errors and providing more cost-effective service.

CAPABILITIES

- Radiochemical analysis for gross alpha, gross beta, total radium, total uranium, Ra-226, Ra-228, I-131, Sr-89, Sr-90, Fe-55, C-14, Tc-99, Pb-210, and other isotopes.
- Gamma-ray spectroscopy for fission products, activation products, natural radioisotopes and radioisotopes used in research and medical treatment, including K-40, Mn-54, Co-58, Cs-134, and Cs-137.
- Detection of tritium in surface and ground water.
- Alpha spectroscopy for U-234, U-235, U-238, Po-210, Pu-239, Pu-239/240, Am-241, Cm-242, Cm-242/244, and other transuranic radioisotopes.
- Environmental monitoring of gamma-ray radiation using TLD and gamma-ray spectrometry. Bioassays analyzed to your specifications.

EXPERIENCE

EIML has experience not only in the analysis of various radiological parameters from a variety of sources, but can and will design the environmental programs, perform field collections, and produce interpretive reports based on the data obtained. Numerous environmental reports have been produced for nuclear power plants and a uranium mill.

QUALITY SYSTEM

In addition, EIML maintains a Quality Control Program on 10 CFR Part 50, Appendix B. Our quality control plan relies on:

- Blind duplicate analysis of routine samples for statistical evaluation of precision and reproducibility within the laboratory.
- Analysis of split samples prepared by outside laboratories to assess comparability of results.
- Periodic processing of blind, blank, and spiked samples to determine the accuracy of routine procedures.
- Participation in the Interlaboratory Comparison Program administered by the Environmental Measurements Laboratory Quality Assessment Program and the Department of Energy's Mixed Analyte Performance Evaluation Program.

SALES & SERVICE

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