

RAL Accreditation and Interlaboratory Performance Evaluation Sample Results

Accreditation:

The Radioanalytical Laboratory (RAL) received Utah Environmental Laboratory Certification under RCRA in May 1996. In October 2001, the RAL received National Environmental Laboratory Accreditation Program (NELAP) certification. NELAP accreditation is maintained by the RAL for performing radiological analyses on low-level waste that is shipped to Envirocare for burial.

KEY NOTE: Utah Department of Health informed RAL personnel during the on-site audit in April 2003 that NELAP accreditation would be transferable to the new subcontractor taking over the RAL.

Interlaboratory Performance Evaluation Results:

EML Semi-Annual PE Study:

The RAL has consistently received at least 90% accuracy overall for the past nine years for the US DOE Environmental Measurements Laboratory (EML) performance evaluation (PE) sample sets (see chart below). The RAL has received 100% accuracy overall on the past ten consecutive PE studies. The PE study includes sample matrices such as soil, air filter, water, and vegetation. These ratings and the analyses performed are comparable to international and major commercial laboratory results.

Radioanalytical Laboratory Historical EML Results

| EML Sample Date | Correct Analyses versus Total Submitted | Evaluation % |
|-----------------|--------------------------------------------|--------------|
| Mar-93 | 21/27 | 78 |
| Sep-93 | 22/31 | 71 |
| Mar-94 | 30/33 | 91 |
| Sep-94 | 37/38 | 97 |
| Mar-95 | 34/36 | 94 |
| Sep-95 | 29/31 | 94 |
| Mar-96 | 28/31 | 90 |
| Sep-96 | 34/35 | 97 |
| Mar-97 | 33/36 | 92 |
| Sep-97 | 30/31 | 97 |
| Mar-98 | 31/31 | 100 |
| Sep-98 | 27/27 | 100 |
| Mar-99 | 27/27 | 100 |
| Sep-99 | 26/26 | 100 |
| Mar-00 | 26/26 | 100 |
| Sep-00 | 26/26 | 100 |
| Mar-01 | 26/26 | 100 |
| Sep-01 | 27/27 | 100 |
| Mar-02 | 26/26 | 100 |
| Sep-02 | 26/26 | 100 |

Gross Alpha/Beta Water Semi-Annual PE:

The RAL has received 100% accuracy overall on all gross alpha/beta water PE studies performed starting in April 1996. The gross alpha/beta water PE study contains picocurie (environmental) levels of radioactivity.