

MCS Support for Clearance of Rocky Flats Environmental Technology Site (RFETS), USA

Scope:

The site closure project involved a range of projects such as:

- **“Trench One” project**
The trench contained an unknown number of drums containing uranium wastes of different enrichment with some Am/Pu contamination, also some mixed debris.
- **“Am Pad zone” project**
Drums containing waste solvents and coolants, contaminated with U and Pu/Am, resulted in a land area of approximately 33 acres (13 hectares) which required monitoring.
- **Analysis of packages** containing mixed isotopic samples for transport purposes with a non destructive method to determine the class, type and category of radioactive material shipments.
- **Characterization of structures** to meet criteria for unrestricted release under the Multi-Agency Radiological Site Survey Investigations Manual (MARSSIM).

Key Drivers:

The goal of this project was mainly to support the accelerated closure of Rocky Flats Environmental Technology Site (RFETS) and reduce the overall cost.

“Trench One”
Excavations and MCLS operations



Visit our Measurement and Expertise (M&E) page.



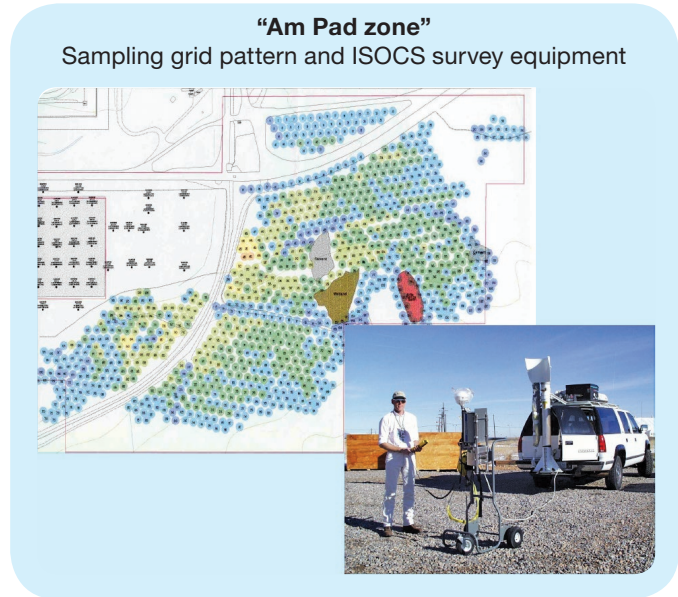
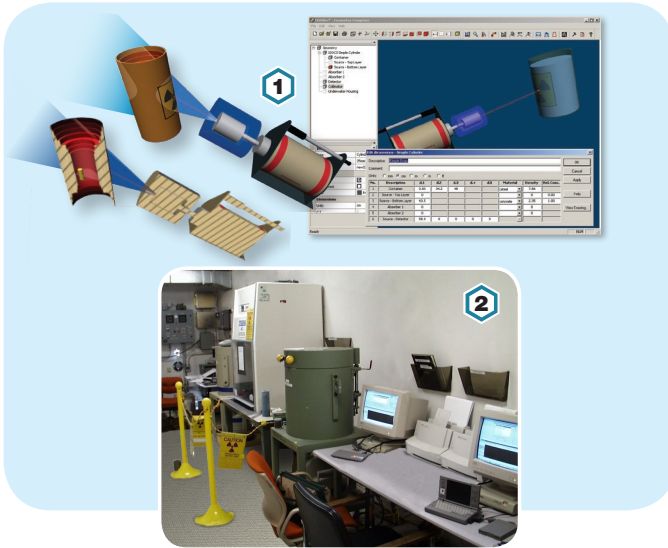
MIRION
TECHNOLOGIES

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Case Study

Instruments & Techniques Used:

- 1 ISOCS™ In situ gamma object spectroscopy system
- 2 Mobile “trailer mounted” laboratory gamma spectroscopy systems



CANBERRA™ Solution:

- **Fast response:** a team was mobilized within three weeks of the contract award, and deployed a CANBERRA trailer with a full set of analytical equipment, provided procedures for approved operations, training and certifications.
- **Collaboration** was formed with Kaiser Hill, LLC Analytical Services and CANBERRA Mobile Characterization Services (MCS), with 24 hour turn-around services for over 350 samples.

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ACHIEVEMENTS

- Significant **cost savings of ~\$600,000** were realized for the 1100 measurements avoiding the need for any costly analytical assays.
- Reduced use of strong, tight boxes for asbestos shipment resulted in **savings of between \$1,000,000 and \$2,000,000 per building.**
- Contribution to the **accelerated site closure.**
- **Minimizing** planned labor, time, disposal and procurement costs.
- Decommissioning project **completed ahead of schedule.**