## **Lab Analysis Working Group Update**

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### **Programmatic Improvements**

- Updates to Job Aids and Training in the works from summer drill lessons learned
- New LA Manual Vol. 1 final draft will be sent around spring/summer 2024 for comment
- Presentation to be given at NREP 2024 on summer live rad drills
- Working on future FAL development proposal to better support quick turn around analysis and shipping survey needs for CM



# **Summer 2023 Live Rad Drills**

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Far-field photo of bomb pit used during exercise.



RAP teams with mobile backpack systems sweep the deposition field.



RAP personnel frisk out the contamination control hotline after dropping off samples and equipment.



# **Summer 2023 Live Rad Drills**

#### INNOVATE. COLLABORATE. DELIVER.



RAP personnel drop off equipment and samples at radiological control hotline.



FAL staff analyze a ground deposition sample on an HPGe spectrometer.



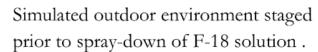
Hotline personnel screen a sample from a field team.



# **Summer 2023 Live Rad Drills**

#### INNOVATE. COLLABORATE. DELIVER.







Hotline personnel screen equipment and samples out of contamination area, foreground, while RAP personnel remove an air filter from a sam-

pler, background.



Laboratory Analysis staff describe sample control process to TAMU students at sample control area .



# Lab Analysis Working Group Update

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### **Training Development**

- Laboratory Data Reporting (LA-075) September 2024
- Updated training being delivered in Spring to the CM responders
  - Includes use of new mobile hotline check-in application
- Fly Away Lab training to be delivered in the spring
- Gamma Spectroscopist training week to be delivered in the spring.
  - Position will be official in ARMS by the end of FY24 with a minimum responder depth of 6
- CM Lab Analysis to participate in both RAP regional drills as well as the two INL live rad dispersal drills

### Nuclear Incident Response Self-Paced Learning Opportunities



### **AS-100: Introduction to Assessment Science** 24 ABHP CECs

 22 module course covering FRMAC Assessment methods for public protection, worker protection, and ingestion pathway PNNS-KDXC

#### **Turbo FRMAC Advanced Methods**

1 ABHP CEC each

- Administration of Potassium Iodide Derived Response Level Calculation OMXL-NMBV
- Analytical Action Level Calculation HZAK-EWAX

### **LA-050: Support Laboratory Briefing**

 What labs should expect when called to help FRMAC CMOT-EKHS

### LA-075: Laboratory Data Reporting (Sept 2024)

 Detailed walkdown of data reporting in CBRNResponder

#### Gamma Spectroscopy Fundamentals ERXF-ZREQ

- Detector Calibration Methods
- Sample Analysis
- Software Functions
- Mathematical Instrument Calibration
- True Coincidence Summing Corrections
- In-Situ Gamma Spectrometry



Sandia and partners have developed *free, online* training! Learn more: <a href="https://snl.matrixlms.com/">https://snl.matrixlms.com/</a>

### **Current Joint EPA/FRMAC FEMA-NIRT Projects**

- Ground deposition sample analysis method round robin
  - Round Robin #1 complete, RR#2 underway
- New CBRNResponder mobile sample hotline check-in application (Mar 2024)
  - Streamlined sample check-in process
  - Ability to work in periodic offline or low-bandwidth environments
  - Capability mirrored on website to reduce training burden for offline and online use
- New project to begin: Pre-planned analytical strategies for sampling and analysis