

**Environmental Management  
Monthly Report to the NSSAB  
May 2014**

**Waste Disposal and Transportation**

- Update from last month - PermaFix Northwest (PFNW), Hanford, Washington: Generator submitted a Corrective Action Plan in which the Nevada Field Office, Radioactive Waste Acceptance Program (RWAP) accepted, verified, and closed in April 2014. PFWN is approved to ship the associated waste to the Nevada National Security Site (NNSS), and has no other open Corrective Action Requests (CAR) or Observations.
- In April 2014, RWAP conducted the following Facility Evaluations:
  - Los Alamos National Laboratory (LANL), Los Alamos, New Mexico: The audit resulted in one finding that requires a CAR and four Observations. The CAR was issued for insufficient documentation regarding radioactive waste concentrations in audited waste profiles. LANL has 30 days to respond to the CAR and Observations.
  - Lawrence Livermore National Laboratory, Livermore, California: The impromptu Facility Evaluation resulted in no issues identified.
- RWAP plans to conduct an audit of the Idaho National Laboratory generator and an impromptu Facility Evaluation in May 2014.
- During May 2014, approximately 142,000 cubic feet of low-level waste (LLW) and mixed (MLLW) is forecasted for disposal at the NNSS.
- LLW and MLLW Transportation Routing Quarterly Report for 1<sup>st</sup> Quarter, October – December 2013, available online at <http://www.nv.energy.gov/emprograms/transportationreports.aspx>.

**Underground Test Area (UGTA)**

***Corrective Action Unit (CAU) 97, Yucca Flat/Climax Mine***

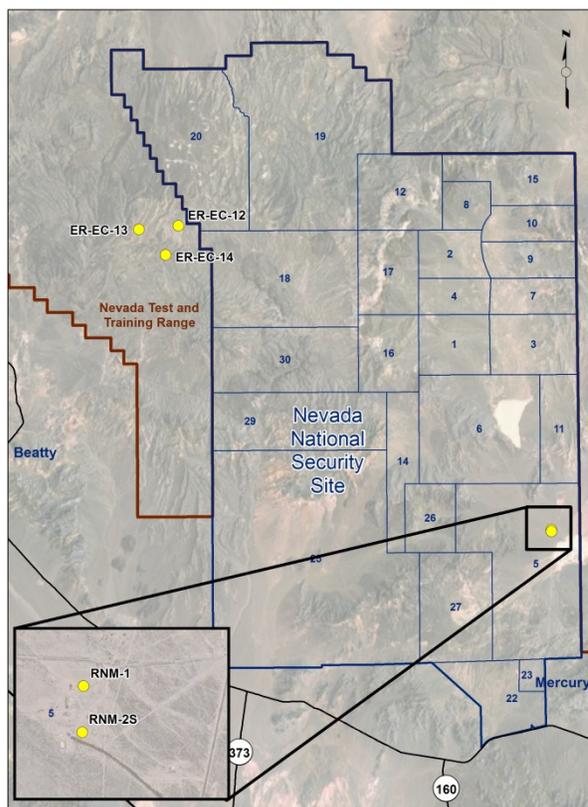
The State of Nevada Division of Environmental Protection (NDEP) and the Nevada Field Office completed the presentations to the external peer review of the flow and transport model document. Panel review and regularly scheduled meetings will take place through August 2014.

**CAU 98, Frenchman Flat**, Preemptive Review Committee comment resolution continued in April 2014. The Preemptive Review Committee provides internal technical review on ongoing work throughout the CAU lifecycle. Mobilization, pumping and sampling, and setup of equipment at RNM-1 (radionuclide migration) was completed in April 2014. In May 2014, mobilization, set up of equipment, and sampling will begin and is expected to be completed at RNM-2S.

**CAU 99, Rainier Mesa/Shoshone Mountain**, Documentation of the conceptual model continued in April 2014 with implementation of the comments from the Preemptive Review Committee. The document was provided to the Preemptive Review Committee in April 2014 for its review. In May 2014, the committee will deliberate and provide its recommendations to the UGTA Activity Lead.

#### **CAUs 101/102, Pahute Mesa**

Work continued on several Phase II geology, hydrology, transport analysis, and evaluation tasks in April 2014. Preparation of the well development and testing data analysis reports for Wells ER-EC-12 and ER-EC-13 continued in April 2014. Well development and testing of Well ER-EC-14 continued in April 2014 and will continue through of May 2014.



## **Industrial Sites**

### ***Non-Resource Conservation and Recovery Act (RCRA) Post-Closure Monitoring Sites***

The Non-RCRA Post-Closure Monitoring Sites include 129 Corrective Action Sites (CASs) where post-closure inspections and maintenance are performed in accordance with closure requirements. Repairs and maintenance identified during the annual inspections were conducted in April 2014 and will continue in May 2014.

### ***RCRA Post-Closure Monitoring Sites***

The RCRA Post-Closure Monitoring Sites include six CAUs where post-closure inspections, monitoring, and maintenance are performed in accordance with the RCRA Permit and closure requirements. In April 2014, repairs and maintenance identified during the inspections began and will continue in May 2014. Irrigation of the reseeded test plots at CAU 111 continued and will continue in May 2014, as needed.

### ***CAU 575, Area 15 Miscellaneous Sites***

CAU 575 comprises two CASs related to historical nuclear testing. In April 2014, preparation of the Data Quality Objectives (DQOs) and the sampling strategies continued and will continue in May 2014. The DQO process is a seven-step approach to plan investigation activities, ensuring the data collected will provide sufficient information to recommend corrective actions for CAU 575.

## **Soils**

### ***CAUs 411 and 412, Double Tracks Plutonium Dispersion and Clean Slate I Plutonium Dispersion***

CAUs 411 and 412 comprise one CAS each on the Nevada Test and Training Range. In April 2014, preparation of the DQOs and the Streamlined Approach for Environmental Restoration (SAFER) Plans for CAUs 411 and 412 continued and will continue in May 2014. The DQOs will be included in the SAFER Plans for CAUs 411 and 412, which are enforceable milestones under the *Federal Facility Agreement and Consent Order* (FFACO) and due to NDEP in August 2014.

### ***CAU 415, Project 57 No. 1 Plutonium Dispersion***

CAU 415 comprises one CAS related to historical nuclear testing. In April 2014, the SAFER Plan for CAU 415 was submitted to NDEP; a response is expected in May 2014.

### ***CAU 541, Small Boy***

CAU 541 comprises two CASs related to historical nuclear testing. In April 2014, preparation of the DQOs and the sampling strategies continued and the DQO meeting was held. The DQOs will be included in the Corrective Action Investigation Plan (CAIP) for CAU 541, which is an enforceable milestone under the FFACO and due to NDEP in July 2014. Preparation of the CAIP will continue in May 2014.

### ***CAU 550, Smoky Contamination Area***

CAU 550 comprises 19 CASs related to historical nuclear testing. In April 2014, preparation of the Corrective Action Decision Document/Closure Report (CADD/CR) continued and will continue in May 2014; the CADD/CR is due to NDEP in September 2014.

### ***CAU 567, Miscellaneous Soil Sites***

CAU 567 comprises four CASs related to historical nuclear testing. Field investigation of these sites consists of radiological surveys, soil sampling, and thermoluminescent dosimeter measurements. In April 2014, field activities, including radiological surveys and sampling and the removal of depleted uranium and sanitary debris, continued and will continue in May 2014.

### ***CAU 568, Area 3 Plutonium Dispersion Sites***

CAU 568 comprises six CASs related to historical nuclear testing. In April 2014, pre-field planning continued and will continue in May 2014.

### ***CAU 571, Area 9 Yucca Flat Plutonium Dispersion Sites***

CAU 571 comprises five CASs related to historical nuclear testing. In April 2014, preparation of the CADD continued and will continue in May 2014.

### ***CAU 573, Alpha Contaminated Sites***

CAU 573 comprises two CASs related to historical nuclear testing. In April 2014, preparation of the CAIP for CAU 573 continued and will continue in May 2014. The CAIP is an enforceable milestone under the FFACO and due to NDEP in June 2014.

## **Public Involvement:**

- Ongoing exhibits:
  - *Operation Clean Desert* – Nevada Public Reading Room in Las Vegas, Beatty Library, Amargosa Valley Library, Goldfield Library, and Central Nevada Museum (Tonopah)
- Events/Outreach:
  - NNSS site tour for various State of Nevada elected officials and staff (April 21<sup>st</sup>)
  - Groundwater demonstration at student outreach events: *Johnston Middle School* (April 28<sup>th</sup> and 30<sup>th</sup>); *East Career and Technical Academy* (April 29<sup>th</sup>)
  - Environmental Management Overview student outreach in support of NSSAB student liaison: *The Meadows School* (April 28<sup>th</sup>)
  - Provided (211) Operation Clean Desert activity books to the Public Reading Room at the Atomic Testing Museum
  - Provided (380) Operation Clean Desert activity books to Johnston Middle School science classes
- Publications:
  - Published two (2) EM News Flash articles (*NNSS Groundwater Program Welcomes Peer Review Team*; and *Cultural Artifacts Cross Eras at the Nevada National Security Site*) and one (1) article (*Dr. Proton Takes up Residence at Pahrump Museum*) in the April 2014 edition of [OneVoice](#)
  - Ongoing social media campaign (Facebook, Twitter)
- *Tremor-14* full emergency response exercise (April 23<sup>rd</sup>)
- NSSAB:
  - NSSAB Membership Recruitment Drive – Membership Committee interviewed 30 applicants during the month of April 2014
  - Two NSSAB Members observed the Yucca Flat External Peer Review (April 7<sup>th</sup> – 11<sup>th</sup>)
  - NSSAB Chair and Vice Chair participated in the spring EM SSAB National Chairs' Meeting and tour at Hanford Site, Washington (April 21<sup>st</sup> – 24<sup>th</sup>)
  - Four NSSAB Members attended Devil's Hole Workshop (April 30<sup>th</sup> – May 1<sup>st</sup>)