

Los Alamos National Laboratory 3706 Transuranic Waste Campaign



M. Lee Bishop
Federal TRU Waste Manager
Los Alamos Site Office
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TRU WASTE

Transuranic (TRU) Waste :

Radioactive waste containing more than 100 nanocuries (3700 becquerels) of alpha-emitting transuranic isotopes (Atomic # >92) per gram of waste, with half-lives greater than 20 years.

- LANL Research and Production TRU Isotopes include: Pu-238, Pu-239, Pu-240, Am-241, Np-237, Cm-244 with associated daughter products.
- Activity is typically expressed in Plutonium Equivalent (Pu-239) Curies = PE Ci

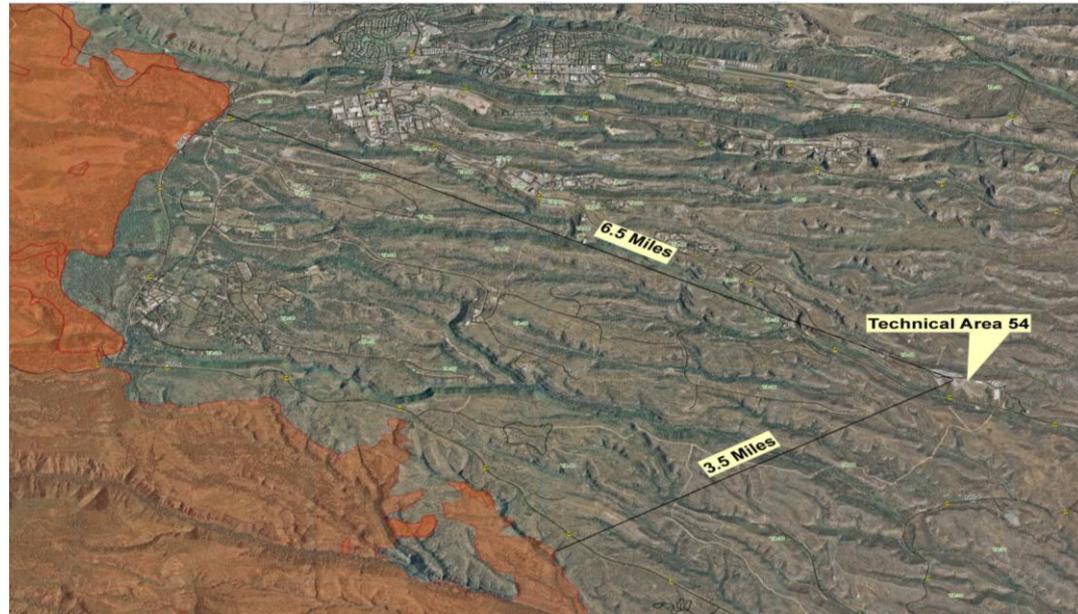
TA-54 Area G



- 63 acres
- Developed as a radioactive waste landfill in 1957
- Selected due to hydrogeological characteristics
- Only currently operating site for solid radioactive waste at LANL

Las Conchas Fire

- Public concern – Area G
- 3.5 miles west
- ~ 1 Acre @ TA-49
- Although significant fire mitigation measures occurred, removal of Area G TRU waste is LANL's Highest Priority.



3706 TRU Waste Campaign Mission

DOE/NNSA commits to the complete removal of all the non-cemented above-ground EM Legacy TRU and newly generated TRU currently-stored at Area G as of October 1, 2011, by no later than June 30, 2014.

This inventory of above-ground TRU is defined as 3706 cubic meters of material.

The waste consists of non-cemented waste inside metal containers and fiberglass reinforced plywood boxes.



TRU Waste Campaign Mission (cont.)

- DOE/NNSA commits to the complete removal of all newly generated TRU waste received in Area G during FY2012 and 2013, by no later than December 31, 2014.



Partnering For Success

The Los Alamos Site Office has partnered with the DOE Carlsbad Field Office to ensure mission success

- Incorporated up-front planning
- Ensured contractor integration
- Balancing TRU repackaging/ processing capabilities with WIPP characterization and shipping
- Ensures WIPP Waste Acceptance Criteria are met

