



Overview of Environmental Programs

Northern New Mexico Citizens' Advisory Board

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Regulatory Management

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Los Alamos Circa 1948



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10-1-2079

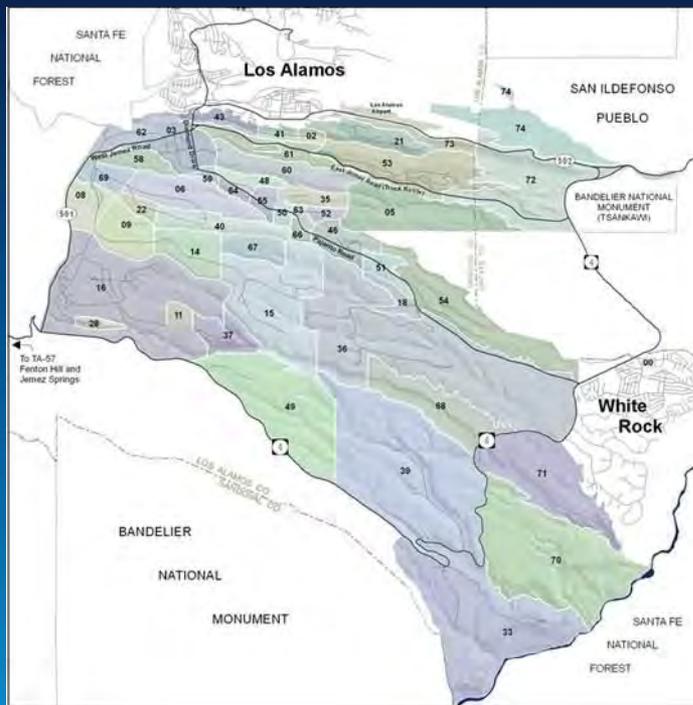




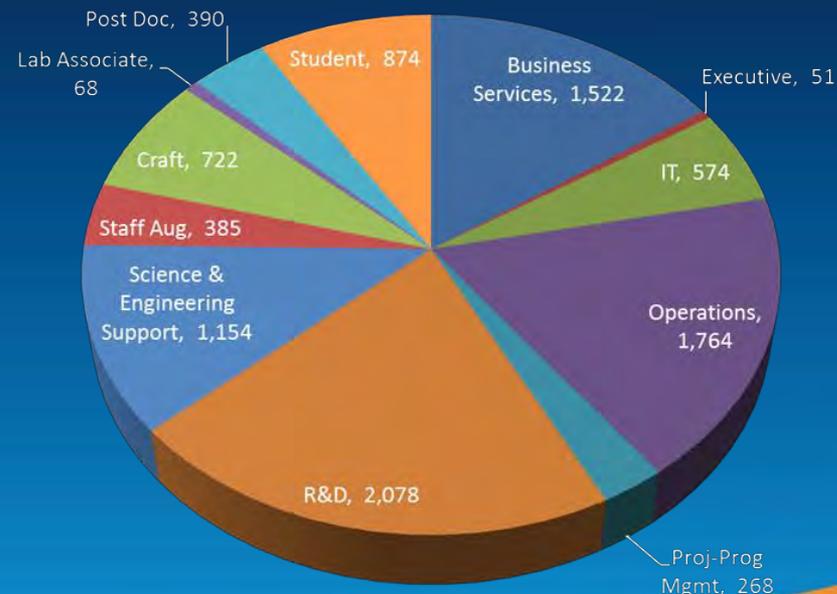
Los Alamos National Laboratory

37 square miles

9,850 workers



LANL Workforce - 9,850
10/31/2013



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National security science serving national interest

- We anticipate, innovate, and deliver solutions.
- We span the spectrum from discovery through applied science to prototypes.
- We use the outstanding science, engineering and technology from our core stockpile stewardship mission for other national needs.

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Los Alamos Today

- Developed technology used on the Mars Curiosity rover
- Study human health to advance medicine
 - Researching HIV and tuberculosis to innovate intervention measures
- Pursue energy security breakthroughs
 - Developing ways to transform biomass-derived molecules into fuels
 - Helping develop “smart” technologies for new, more sustainable electrical grid



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Environmental Programs Mission



- Clean up legacy waste sites and protect northern New Mexico's water resources



- Process and ship hazardous and radioactive waste to permanent disposal facilities

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ADEP - Dedication to Safe Performance



- Safe working environment
- Excellence in regulatory compliance

Environmental Programs is a
great place to work!

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Terms



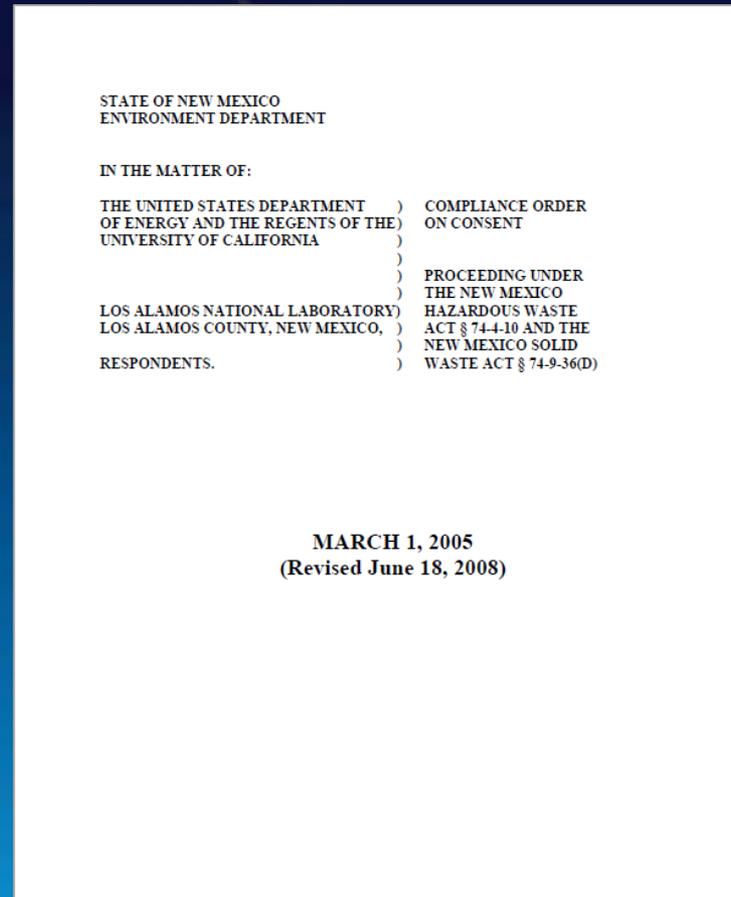
- RCRA: Resource Conservation and Recovery Act of 1970
- EPA: Environmental Protection Agency
- NMED: New Mexico Environment Department
- SWMU: Solid Waste Management Unit
- AOC: Area of Concern
- MDA: Material Disposal Area
- IR: Investigation Report
- CME: Corrective Measures Evaluation
- ARRA: American Recovery and Reinvestment Act

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Regulatory Agreements – Consent Order

- Compliance Order on Consent
 - 2005 agreement between LANL and the New Mexico Environment Department
 - Includes requirements and schedules for cleaning up LANL
 - Final deliverable is December 2015



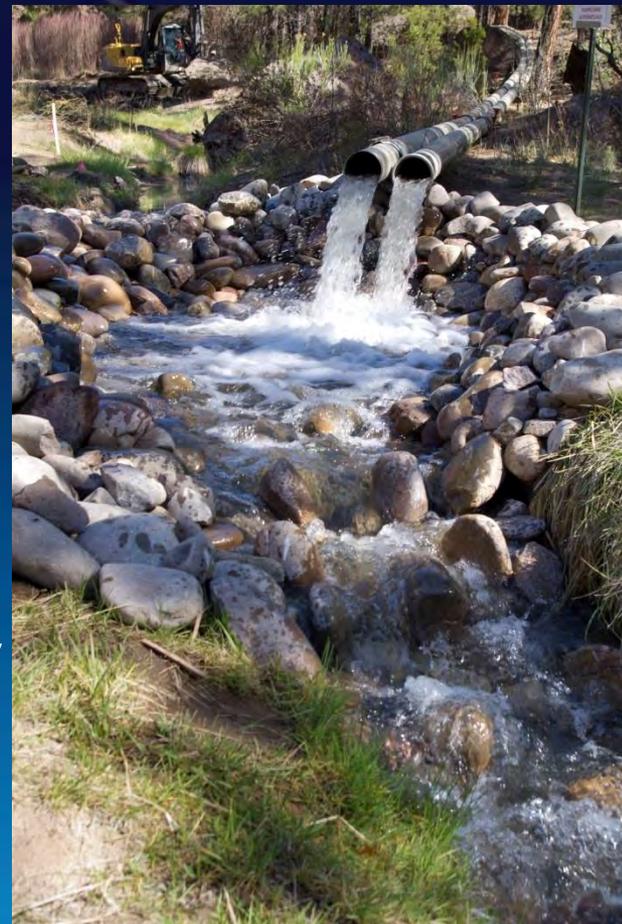
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Legacy cleanup

- Working with NMED on interim measures for groundwater remediation
 - Chromium in Sandia and Mortandad Canyons
 - RDX at TA-16 260 outfall
- Prioritizing completion of sites important to Los Alamos County re-development



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Protecting water resources

■ Groundwater

- Operate extensive groundwater monitoring network at over 200 locations (screens)
- Routine sampling of a number of Los Alamos County and City of Santa Fe water supply wells

■ Surface Water

- Erosion / storm water controls at 405 sites
- Sample surface water at over 175 different locations
- Operate the storm water Early Notification System for the Buckman Diversion intake for Santa Fe

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FY13 Accomplishments

- Consent Order progress
 - Completed investigation and remediation for 1,008 of the 2,139 cleanup sites (69 sites are pending administrative action)
 - Collect approximately 390 surface water, spring and groundwater samples
 - Completed characterization pump testing, retrieving data to help scientists remediate chromium in the regional aquifer
 - 100% of all regulatory deliverables met on time or early (>100/year)

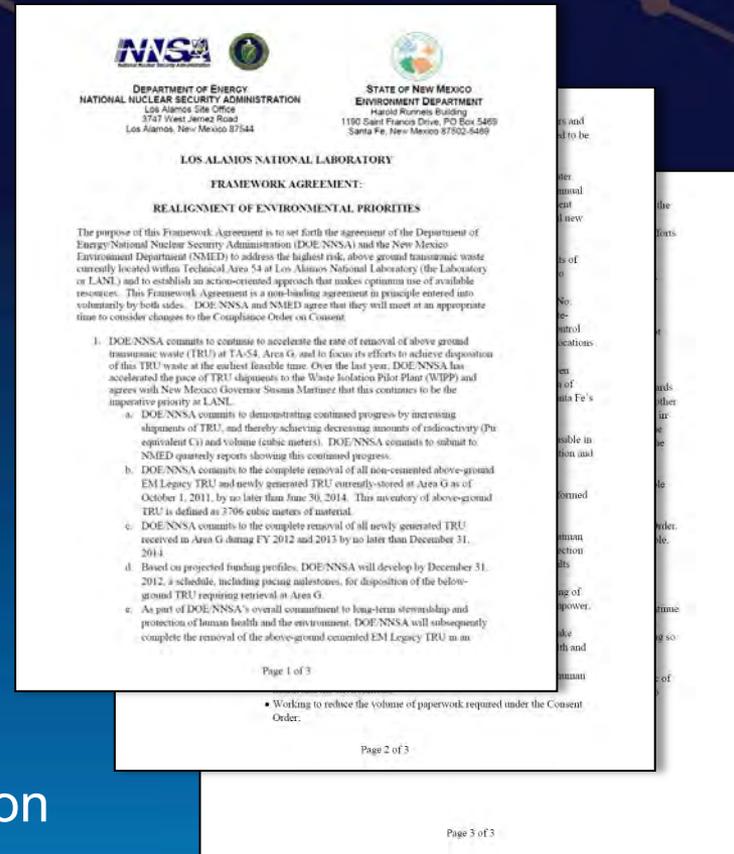


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Regulatory Agreements – Framework Agreement

- Risk-based realignment of environmental priorities
- Announced in January 2012
- Agreement among:
 - New Mexico Environment Department
 - Department of Energy
 - National Nuclear Security Administration
- The 2005 Consent Order remains in place



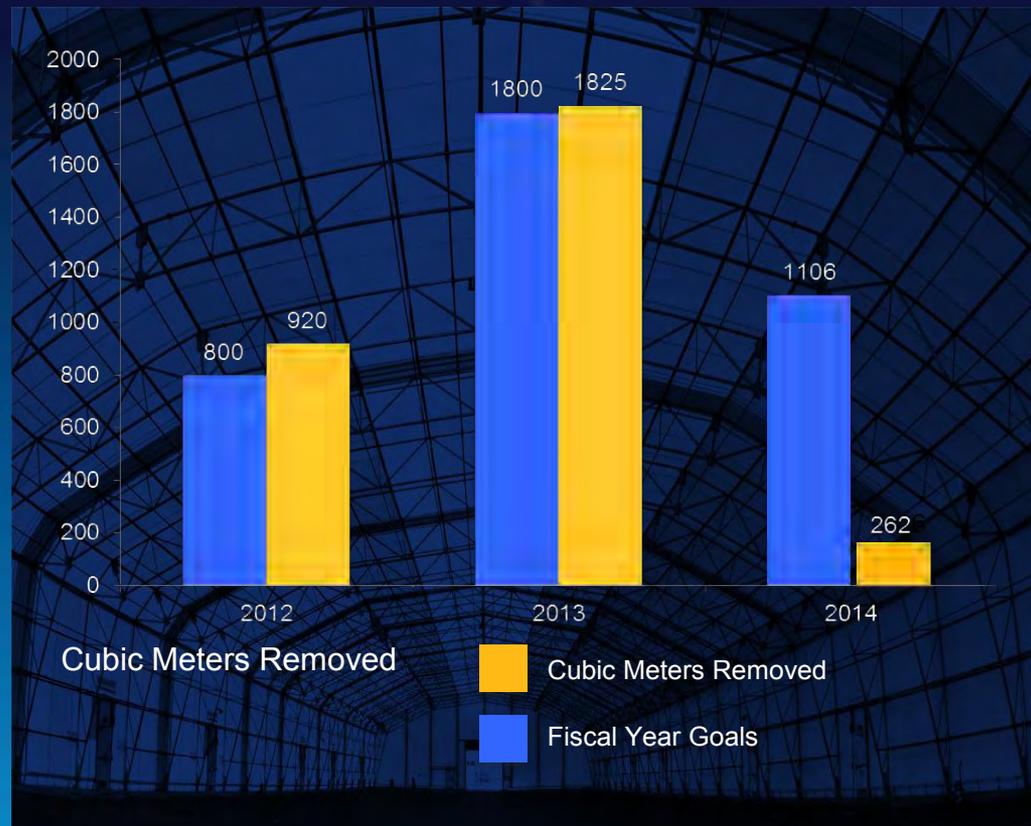
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3706 TRU Campaign – Removing Above Ground Transuranic Waste

- Top priority shared by the State of New Mexico, Department of Energy and the Laboratory
- Current focus is to remove 3,706 cubic meters of above-ground waste by June 30, 2014



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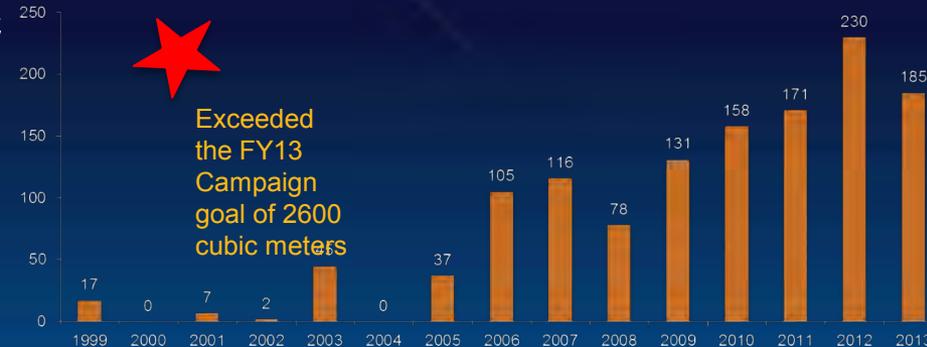




FY13 Accomplishments

- Safely remediated 1,825 cubic meters of TRU waste from Area G
 - Shipped to Waste Isolation Pilot Plant and Waste Control Specialists
- Completed the Framework Agreement deliverable to develop a below-grade disposition schedule early
- Implemented Area G Basis of Interim Operations (BIO)

Shipments to WIPP



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Fiscal year 2014 priorities



- Complete removal of 3,706 cubic meters of above-ground transuranic waste
- Protect groundwater and surface water
- Investigate and clean up legacy waste sites
- Begin below-ground transuranic waste retrieval

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