



**DEPARTMENT OF ENERGY**  
National Nuclear Security Administration  
Los Alamos Field Office  
Los Alamos, New Mexico 87544

APR 11 2013



Mr. Tom Skibitski, Director  
Resource Protection Division  
New Mexico Environment Department  
P.O. Box 5469  
Santa Fe, NM 87502-5469

Dear Mr. Skibitski:

Subject: Transmittal of 3,706 TRU Campaign Fiscal Year 2013 Second Quarter Status Reports

Please find for your review the attached Los Alamos National Laboratory (LANL) 3,706 TRU Campaign Status Report and the LANL Water Protection Status Report for the second quarter of Fiscal Year 2013.

As discussed in the past, maintaining public transparency in the 3,706 Transuranic (TRU) Waste Campaign is of the utmost importance to the Department of Energy, Los Alamos Field Office. The attached quarterly status report will be highlighted from a link on the LANL website and available for the public's review by April 15, 2013.

The site continues to make good progress removing waste and reducing risk. The Lab has removed a cumulative total of 1,456 m<sup>3</sup> of waste as of the end of March. That equates to 63 percent of the campaign's Material at Risk (MAR) being removed from the site, representing a significant risk reduction.

We look forward to continued success of this important work for Los Alamos as well as the State of New Mexico. If you have any questions, please contact David Nickless of my staff at (505) 665-6448.

Peter Maggiore  
Assistant Manager  
Environmental Projects Office

Enclosures

cc w/enclosures:

John Kieling

Chief

Hazardous Waste Bureau

New Mexico Environment Department

2905 Rodeo Park Drive East, Building 1

Santa Fe, NM 87505-6303

B. Diamond, NA-GC, HQ/FORS

F. Marcinowski, EM-30, HQ/FORS

J. Griego, OOM, NA-00-LA

T. O'Leary, BA, NA-00-LA

G. Rael, NSM, NA-00-LA

B. Pfaff, EPO, NA-00-LA

L. Bishop, EPO, NA-00-LA

D. Nickless, EPO, NA-00-LA

T. Chiri, BA, NA-00-LA

J. Franco, WIPP, CB

T. Morgan, WIPP, CB

E. Ziemianski, WIPP, GSA-220

F. Sharif, WIPP, GSA-201

D. Cox, ADEP, LANS, MS-K487

K. Johns-Hughes, LTP, LANS, MS-K487

J. Mousseau, ADEP, LANS, M991

Records Center, NA-00-LA

Official Contract File, NA-00-LA

EPO-32DN-451-505075

# LANL 3,706 TRU Campaign Status Report – FY13 2nd Qtr. (Jan. thru Mar. 2013)

## Processing Highlights

### RANT (Shipping Facility):

- Shipped 26 shipments for a cumulative total of 293 shipments to WIPP since the beginning of the Campaign.
- Shipped 63% of the total Plutonium activity for the Campaign.
- Completed redundant crane installation for the RANT facility during the WIPP outage in January and February, 2013.

### WCRRF (High Activity Drum Line):

- The repackaging line has performed remediation on 870 drum equivalents (DE's) since the beginning of the Campaign.

### Building 375 (Box Line):

- Began processing radiological boxes in Feb 2013, and is expected to be processing Hazard Category III Solid Waste Boxes by May, 2013.

### Building 412 (Box Line):

- Continued processing boxes.
- Processed 111 m3 in Box Line 412 this quarter.
- Schedule conversion to drum line in September, 2013.

### Dome 231 (Box Line):

- Began processing Hazard Category III boxes in February, 2013.
- Processed 107 m3 in Box Line 231 this quarter.
- Initiated 24 hour operations.

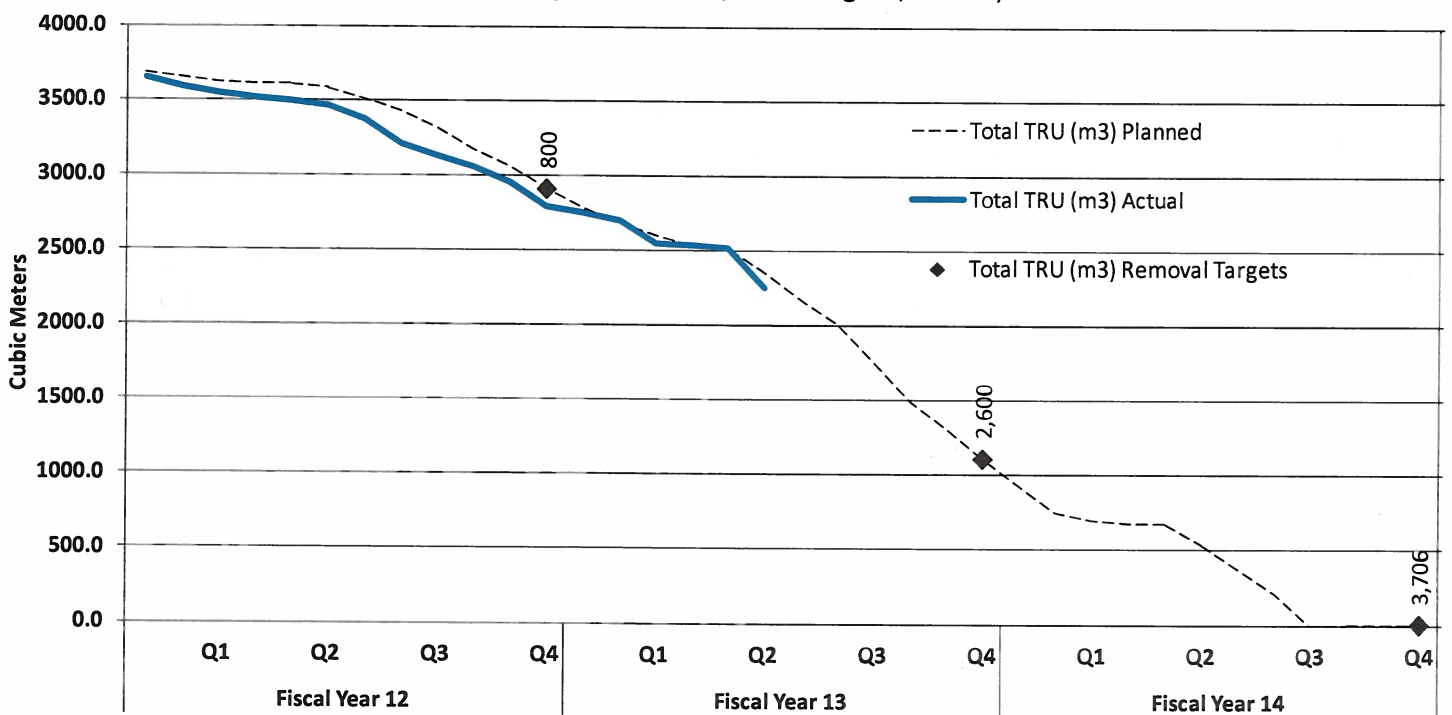
### Central Characterization Project (CCP):

- During the 2nd Quarter of FY13, the CCP processed 1,983 containers.

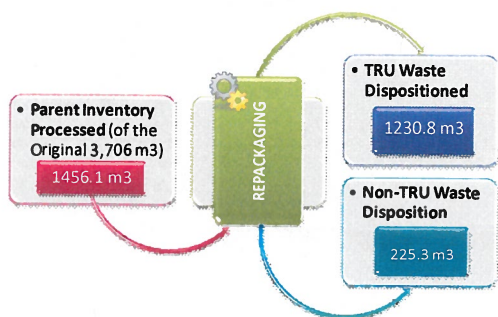
TRU Volume Removed			FY2012 thru 03/31/13				PROJECTIONS FOR NEXT QUARTER *		
SHIPMENTS * (as of 03/31/13)		2014 Goal	2012 Actual	FY2013 Q2 Actual to Date	Cumulative Actual to Date	% Complete	Q3 Forecast	Cumulative at End of Quarter	Cumulative % Complete
3,706 TRU Campaign	Volume (m3)	3706.0	920.1	291.0	1456.1	39%	597.5	1953.1	53%
	Drum Equivalents	17817.3	4423.3	1399.0	7000.3		2872.6	11074.8	
	Radioactivity (PE Ci)	41510.7	23075.2	1124.5	25945.1	63%	1977.3	32673.4	79%

### 3,706 LANL TRU Campaign Performance

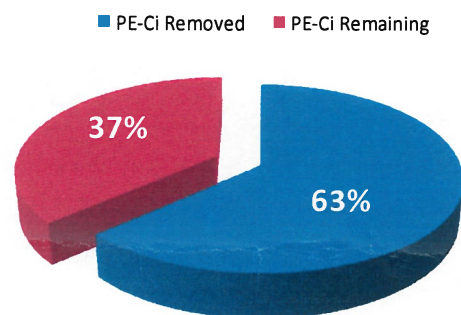
(Target = 3,706 m3; Remaining = 2,250 m3)



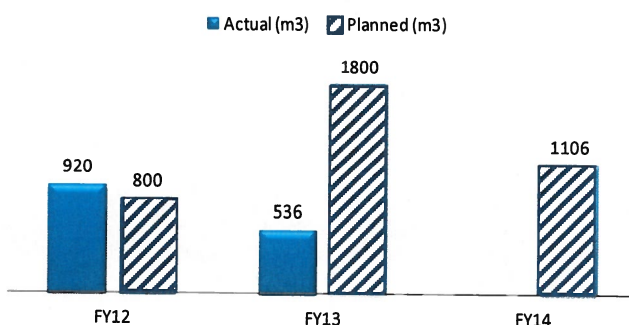
### Parent vs. Shipped Volumes



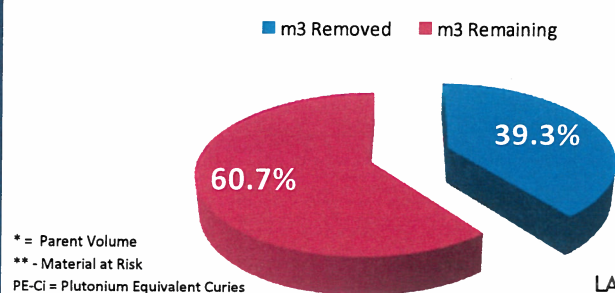
### \*\* MAR Removal - Total Campaign



### 3,706 Goal vs. Progress (Volumes)



### 3,706 TRU Campaign Cumulative Progress

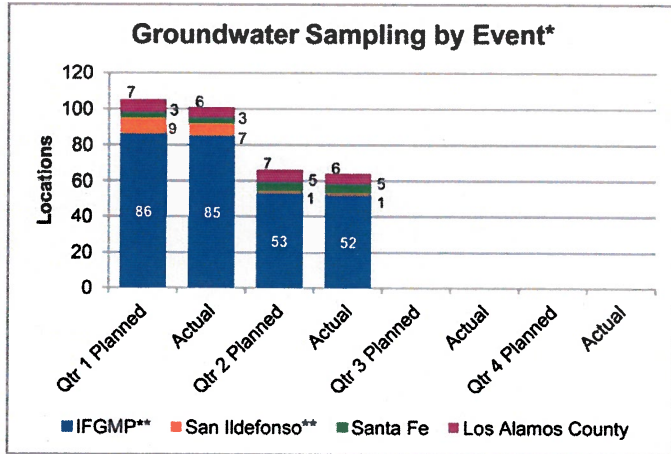


\* = Parent Volume  
 \*\* - Material at Risk  
 PE-Ci = Plutonium Equivalent Curies

# LANL Water Protection Status Report — FY13 2nd Qtr. (Jan to Mar 2013)

	1 <sup>st</sup> Qtr	2 <sup>nd</sup> Qtr	3 <sup>rd</sup> Qtr	4 <sup>th</sup> Qtr
Groundwater Protection — Continued monitoring of the Buckman Direct Diversion and Los Alamos County Water Supply Wells	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Groundwater Protection — Continued implementation of the Interim Facility-Wide Groundwater Monitoring Plan (IFGMP)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Surface Water Protection — Continued protection of surface water through implementation of the Individual Stormwater Permit (IP)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Buckman Early Notification System operability at 100% per memorandum of understanding (MOU) requirements	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

## Groundwater Protection



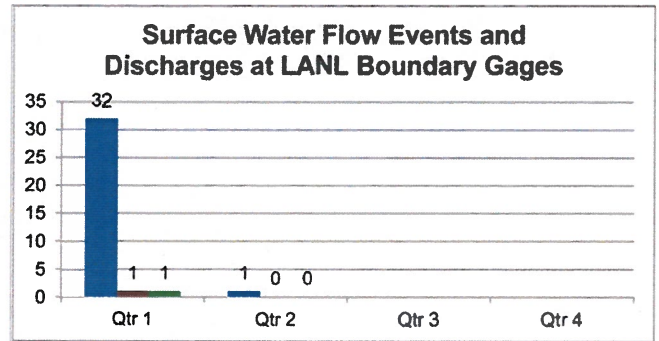
\* An event is a single-screen well location, each individual well screen for multi-screen wells, spring or base-flow location.  
 \*\* San Ildefonso locations included in both the IFGMP and San Ildefonso MOU are identified as San Ildefonso locations for this report.

FY13 1<sup>st</sup> Quarter (Oct-Dec) Analytical Summary: Analysis of the 101 groundwater samples collected this quarter provided 14,710 analyte measurements of which no new exceedances were confirmed to be from a Los Alamos National Laboratory (LANL) source. (2<sup>nd</sup> quarter analytical results are pending.)

### Second Quarter Sampling Event Deviation Explanations:

- (1) **IFGMP:** TA-16 260 Monitoring Group's well FLC-16-25280 was dry
- (2) **San Ildefonso:** None
- (3) **City of Santa Fe:** None
- (4) **Los Alamos County:** PM-4 not sampled because it was inoperable due to a mechanical issue.

## Surface Water Protection



■ Days with measured flow at any LANL gage station (>5 cubic feet per second [cfs])  
 ■ Days with flow at LANL boundary stations E050.1, E060.1, E125, E250, E265, E267, E275, and E338 (>5 cfs)  
 ■ Days with measured flow at Buckman Early Notification Station E109.9 (>5 cfs) from LANL watersheds.

### Note:

E123 is a perennial stream fed by power plant effluent in Sandia Canyon. There was a small rain event on January 26, 2013 and the discharge increased to approximately 20cfs during this event.