



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



OCT 11 2012

Dr. Jim Davis, Director
Resource Protection Division
New Mexico Environment Department
P.O. Box 5469
Santa Fe, NM 87502-5469

Dear Dr. Davis:

Subject: Transmittal of 3,706 TRU Campaign Quarterly Status Report

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 fourth quarter of Fiscal Year 2012.

As discussed in the past, maintaining public transparency in our 3,706 TRU Waste Campaign is of the utmost importance to the Department of Energy, Los Alamos Site Office. The attached quarterly status reports will be highlighted from a link on the LANL website and available for the public's review by October 15. We hope your office is encouraged by the progress being made during the first year of this campaign. As you can see, LANL accomplished and surpassed its 800 cubic meters milestone for this year, and we have also made significant progress in removal of the total activity (56 percent) for the campaign.

If you have any questions, contact M. Lee Bishop at (505) 606-1804.

Peter Maggiore
Assistant Manager
Environmental Projects Office

Enclosure

cc w/enclosure:

John Kieling

Chief

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EPO-32LB-384-470890

Processing Highlights

RANT (Shipping Facility):

- Shipped 80 shipments for a cumulative total of 230 shipments to WIPP in FY12 exceeding the goal of 184 shipments, and a new shipping record at LANL.
- Shipped 56% of the total Plutonium activity for the Campaign at LANL during FY12.
- Mobile Loading Unit relocated to LANL as a redundant system.
- Started construction on the RANT Transportation Center to support FY13 shipment ramp-up.
- Second crane (will be primary use) scheduled to be installed during WIPP outage in Jan 2013.

WCRRF (High Activity Drum Line):

- During split shift operation, the repackaging line performed remediation on 121 drum equivalents (DE), for a total of 670 DE in FY12.

Building 375 (Box Line):

- Not operational; design changes have delayed completion. Facility is expected to begin radiological box processing in Feb 2013, and is expected to be processing Haz Cat Solid Waste Boxes by May 2013.

Building 412 (Box Line):

- During single and split shift operation, the repackaging line performed remediation on 92.0 m3, for a total of 372.5 m3 in FY12.
- Multiple shifts allow for crew development & training in preparation for new box lines.
- Conversion to drum line to take place from December 2012 to February 2013.

Dome 231 (Drums):

- Began interim operations in August for flam gas detection; expected to be processing radiological boxes in November 2012, and processing Haz Cat boxes in Feb 2013.

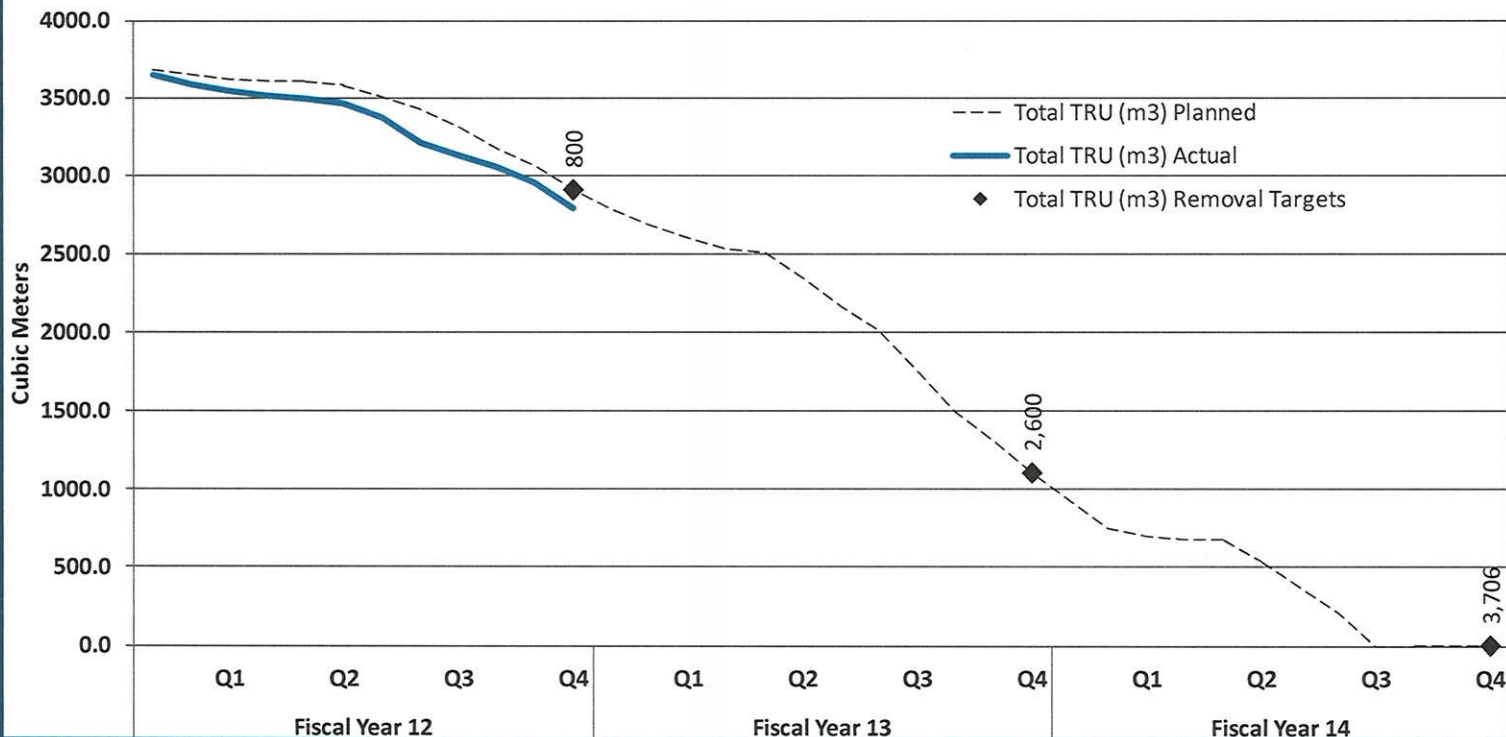
Central Characterization Project:

- As of Sept. 30, 117 containers are approved and ready for shipment in the Waste Disposal System database, and 470 have completed all characterization, are undergoing Project Office review by CCP, and will become available for shipment.

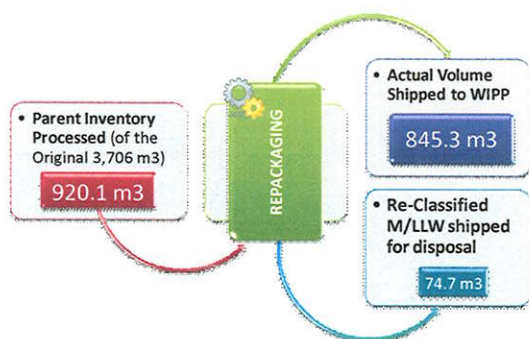
TRU Volume Removed		FY12 thru 09/30/12			PROJECTIONS FOR NEXT QUARTER *			
SHIPMENTS * (as of 09/30/12)	June 2014 Goal	Q4	Cumulative	% Complete	End of 1st Qtr. FY13	Cumulative by End of Qtr.	Cum. % Complete	
		Actual to Date	Actual to Date					
3,706 TRU Campaign	Volume (m3)	3706.0	335.3	920.1	24.8%	305.6	1105.6	30%
	Drum Equivalents	17817.3	1612.1	4423.3		1469.2	5315.4	
	Radioactivity (PE Ci)	41510.7	10380.4	23075.2		6101.5	28601.5	

3,706 LANL TRU Campaign Performance

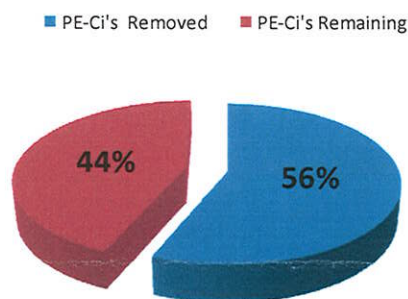
(Target = 3,706 m3; Remaining = 2,786 m3)



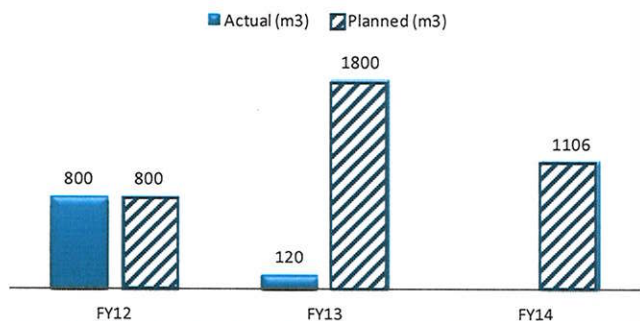
Parent vs. Shipped Volumes



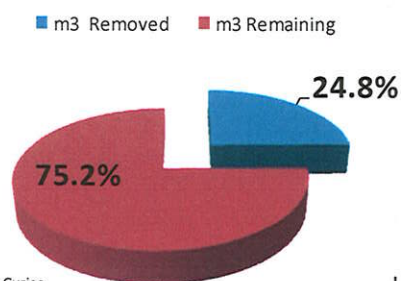
** MAR Removal - Total Campaign



3,706 Goal vs. Progress (Volumes)



3,706 TRU Campaign Shipment Progress *

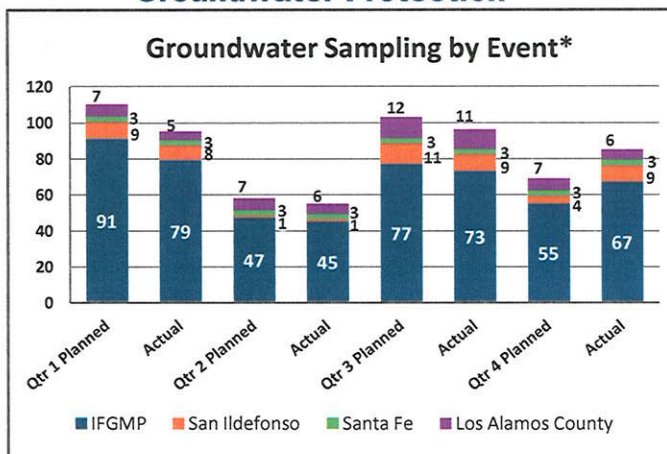


* = Parent Volume
** - Material at Risk
PE-Ci = Plutonium Equivalent Curies

LANL Water Protection Status Report — FY12 4th Qtr. (Jul thru Sep 2012)

	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr
Groundwater Protection — Continued monitoring of the Buckman Direct Diversion and Los Alamos County Water Supply Wells	☑	☑	☑	☑
Groundwater Protection — Continued implementation of the Interim Facility-Wide Groundwater Monitoring Plan (IFGMP)	☑	☑	☑	☑
Surface Water Protection — Continued protection of surface water through implementation of the Individual Stormwater Permit (IP)	☑	☑	☑	☑
Buckman Early Notification System operability at 100% per MOU Requirements	☑	☑	☑	☑

Groundwater Protection



* An Event is a single-screen well location, each individual well screen for multi-screen wells, spring or base-flow location.

1st Quarter analytical summary: 16,279 analytes tested with 0 new exceedances confirmed to be from LANL sources.

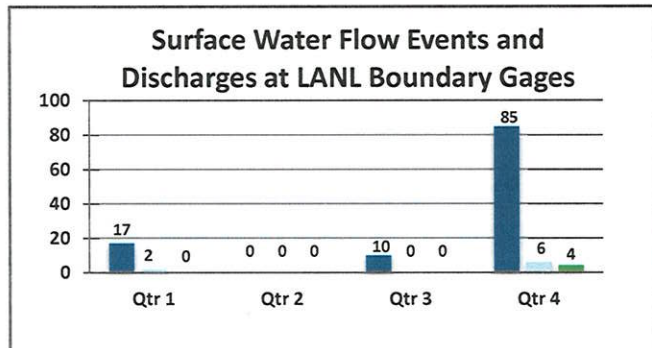
2nd Quarter analytical summary: 10,007 analytes tested with 0 new exceedances confirmed to be from LANL sources.

3rd Quarter analytical summary: 22,105 analytes tested with 1 new exceedance confirmed to be from LANL sources. (Chromium in R-62) (4th quarter analytical are pending)

Sampling Event Deviation Explanations:

- 1) 11 locations inaccessible due to flooding risk (raft trip) or heavy snows
- 2) 13 wells/springs were dry; one base flow location frozen
- 3) Four LA County wells were not operating; 2 LANL location experienced a mechanical equipment problem
- 4) One location added by NMED
- 5) Five sampling events at three locations were postponed until redevelopment has been completed.
- 6) One location reassigned from General Surveillance Monitoring Group (3rd Qtr sampling event) to TA-16 260 Monitoring Group (4th Qtr sampling event)
- 7) 27 locations scheduled for October were sampled in September.

Surface Water Protection



- Days w/Measured Flow at any LANL Gage Station (>5 cfs)
- Days w/Flow at LANL Boundary Stations E050.1, E060.1, E125, E250, E265, E267, E275, and E338 (>5 cfs)
- Days w/Measured Flow at Buckman Early Notification Station E109.9 (>5 cfs) from LANL watersheds.

Notes:

- 1) In 3rd Qtr, 7 of the 10 days are flow at E122, which is perennial flow from the cooling towers in Sandia.
- 2) In 4th Qtr, flow was measured above 5cfs at LANL boundary stations five times at E050.1 and one time at E265.