



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



OCT 15 2014

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Tom Blaine, Director
Environmental Health Division
New Mexico Environment Department
P.O. Box 5469
Santa Fe, NM 87502-5469

Dear Mr. Blaine:

Subject: Transmittal of 3,706 Transuranic Campaign Fiscal Year 2014 Fourth Quarter Status Reports

Please review the enclosed Los Alamos National Laboratory (LANL) 3,706 Transuranic (TRU) Campaign Status Report and the LANL Water Protection Status Report for the fourth quarter of Fiscal Year (FY) 2014.

The Laboratory did not accomplish any additional TRU Waste disposal during the current period. Last quarter's reported progress remains at a cumulative total of 3,327.5 m³ of waste as of the end of September 2014. This progress equates to 93 percent of the campaign's Material at Risk being removed from the site, representing a significant risk reduction.

The Laboratory made no additional progress in removing newly generated waste during this quarter. Again, the campaign totals of 477 containers of newly generated waste received in Fiscal Year (FY) 12 for disposal, only five (one percent) remain to be shipped. Of the 567 containers received in FY13, only 34 (six percent) remain to be shipped.

The Los Alamos Field Office respectfully requests that quarterly reporting for the 3,706 Campaign be discontinued, as no future shipments are planned or expected until the Waste Isolation Pilot Plant reopens. The submittal of LANL Water Protection Status Report will continue on a quarterly basis.

The enclosed quarterly status reports will be highlighted from a link on the LANL website and will be available for the public's review. 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

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Records Center, NA-LA

Official Contract File, NA-LA

EPO-32DN-682-598094

LANL 3,706 TRU Campaign Status Report – FY14 4th Qtr. (July thru Sept. 2014)

Processing Highlights

RANT (Shipping Facility):

- Completed 63 shipments to WIPP in FY14. No shipments to WIPP were planned or performed during the 4th Quarter.

WCRRF (High Activity Drum Line):

- The repackaging line has performed remediation on 1,507 drum equivalents (DE's) since the Campaign began in October 2011. No progress was made during the 4th Quarter due to a halt in operations.

Building 375 (Box Line):

- The Box Line 375 has remediated 856.0 m3 of Legacy TRU Waste since the Campaign began in October 2011. No progress was made during the 4th Quarter due to a halt in operations and the safe storage of the remediated Nitrated Salt containers within the Permacon.

Dome 33 (Drum Venting):

- With completion of the drum venting for this Campaign during the 3rd Quarter of FY13, the drum venting process has focused on scope outside the 3,706 Campaign.

Building 412 (Box Line converted to Drum Line):

- No progress was made during the 4th Quarter due to a halt in operations.

Dome 231 (Box Line):

- The Box Line 231 has processed 694.8 m3 of Legacy TRU Waste since the Campaign began in October 2011. No progress was made during the 4th Quarter due to a halt in operations and the safe storage of the un-remediated Nitrated Salt containers within the facility.

Central Characterization Project (CCP):

- During this Quarter, CCP did not fully characterize any containers related to the 3,706 Campaign.
- CCP has fully characterized 17,695 containers to the WIPP Waste Acceptance Criteria since the beginning of the Campaign in October 2011.

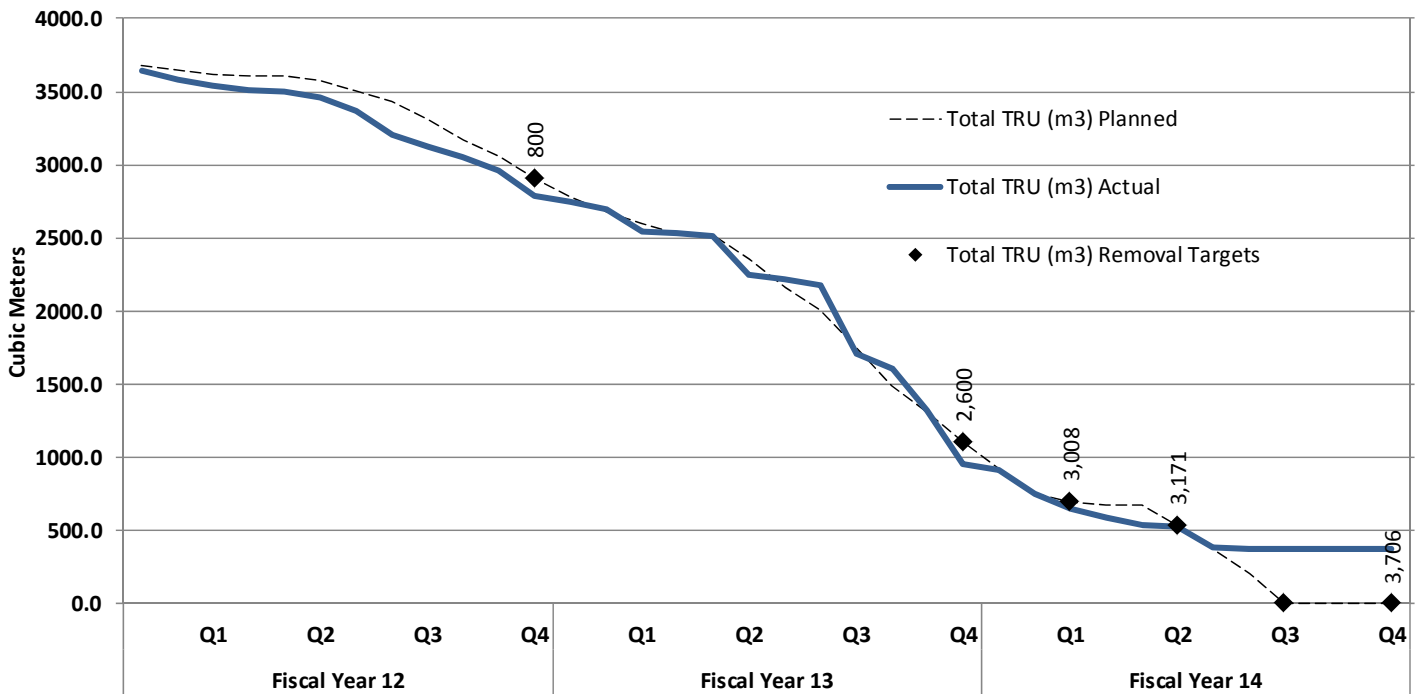
Other:

- TRU waste will continue to be stored at TA-54 pending WIPP recovery and resumption.

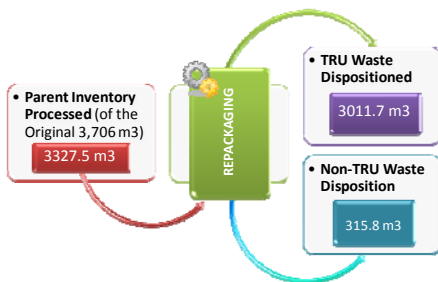
TRU Volume Removed				FY2012 thru 09/30/14			PROJECTIONS FOR NEXT QUARTER ¹			
SHIPMENTS * (as of 09/30/14)		2014 Goal	2012 Actual	2013 Actual	FY2014 Q4 Actual to Date	Cumulative Actual to Date	% Complete	Q1 Forecast	Cumulative at End of Quarter	Cumulative % Complete
3,706 TRU Campaign	Volume (m3)	3706.0	920.1	1827.6	0.0	3327.5	90%	0	3327.5	90%
	Drum Equivalents	17817.3	4423.3	8786.6	0.0	15997.7		0.0	15997.7	
	Radioactivity (PE Ci)	41084.7	23075.2	8279.0	0.0	38229.5	93%	0	38229.5	93%

¹ Due to WIPP closure, TRU waste shipments are on hold indefinitely.

3,706 LANL TRU Campaign Performance (Target = 3,706 m3; Remaining = 378 m3)

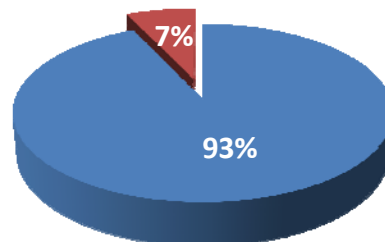


Parent vs. Shipped Volumes



MAR Removal - Total Campaign

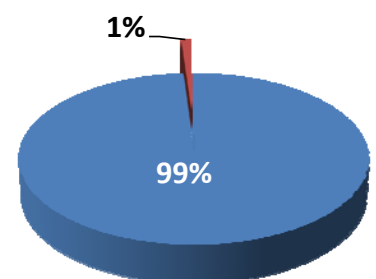
■ PE-Ci Removed ■ PE-Ci Remaining



Note: Volumes and percentages are rounded to nearest whole number.

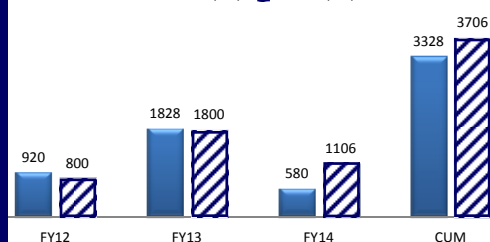
FY12 Newly Generated

■ Containers shipped (472) ■ Containers remain to ship (5)



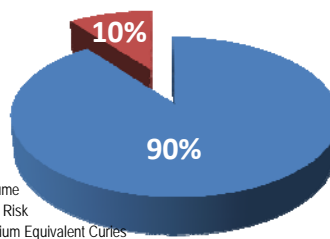
3,706 Goal vs. Progress (Volumes)

■ Actual (m3) ■ Planned (m3)



3,706 TRU Campaign Cumulative Progress

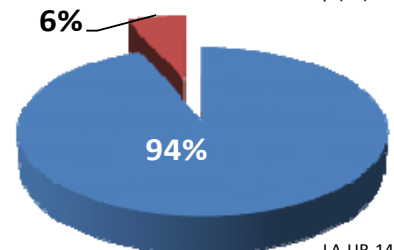
■ m3 Removed ■ m3 Remaining



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

FY13 Newly Generated

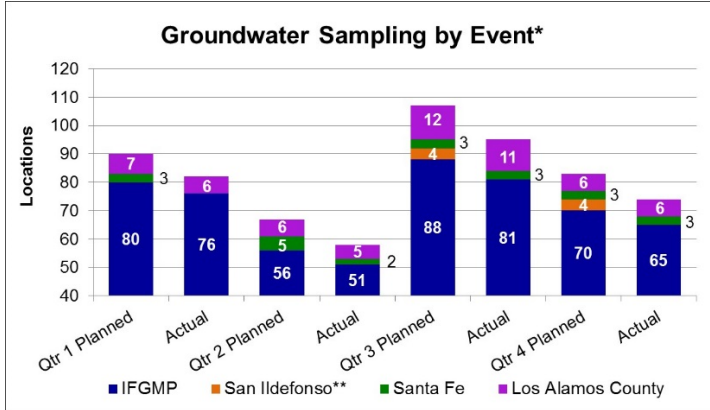
■ Containers shipped (533) ■ Containers remain to ship (34)



LANL Water Protection Status Report — Fiscal Year 2014 Fourth Quarter (July to September 2014)

	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 Storm Water Permit (IP)	☑	☑	☑	☑
Buckman Early Notification System operability at 100% per memorandum of understanding (MOU) requirements	☑	☑	☑	☑

Groundwater Protection



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

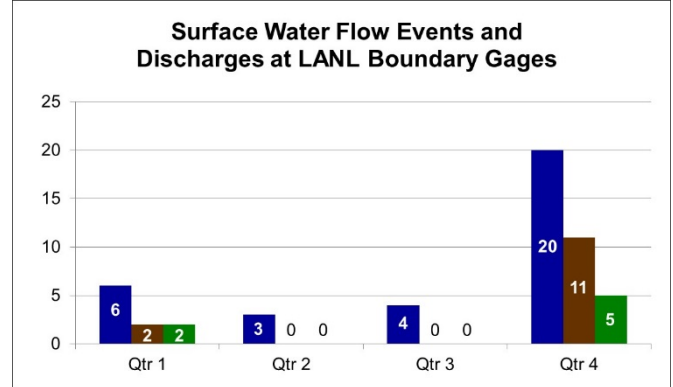
** San Ildefonso locations included in both the IFGMP and San Ildefonso MOU are identified as San Ildefonso locations for this report.

Fourth Quarter Sampling Event Deviation Explanations:

- (1) **IFGMP:** R-61 S2 was not sampled because of representative issues; R-43 S2 was not equipped with a pump because of the ongoing pump test on R-43 S1 for the Chromium Project; CDBO-6, MCO-5, and LADP-3 were dry.
- (2) **San Ildefonso:** R-10a, R-10 S1, R-10 S2, and R-34 were not sampled because of access issues.
- (3) **City of Santa Fe:** None.
- (4) **Los Alamos County:** None.

FY14, 3rd Quarter (Apr–Jun) Analytical Summary: Los Alamos National Laboratory (LANL) has received analytical data from FY14, 3rd quarter, for sampling of 14 water supply wells with 5411 analyte measurements and for 79 IFGMP samples with 17,354 analyte measurements that will be reported to the New Mexico Environment Department. Of the 95 samples collected in the 3rd quarter, results for 93 samples have been received with a total of 22,765 analyte measurements. No new exceedances were confirmed to be from a LANL source. (FY14, 4th quarter analytical results are pending.)

Surface Water Protection



■ Days with measured flow* at any LANL gage station (>5 cubic feet per second [cfs])

■ Days with measured flow* at LANL boundary stations E050.1, E060.1, E125, E204, E229.3, E250, E265, E267, E275, and E338 (>5 cfs)

■ Days with measured flow* at Buckman Early Notification Stations E050.1 and E060.1 (>5 cfs) from LANL watersheds.

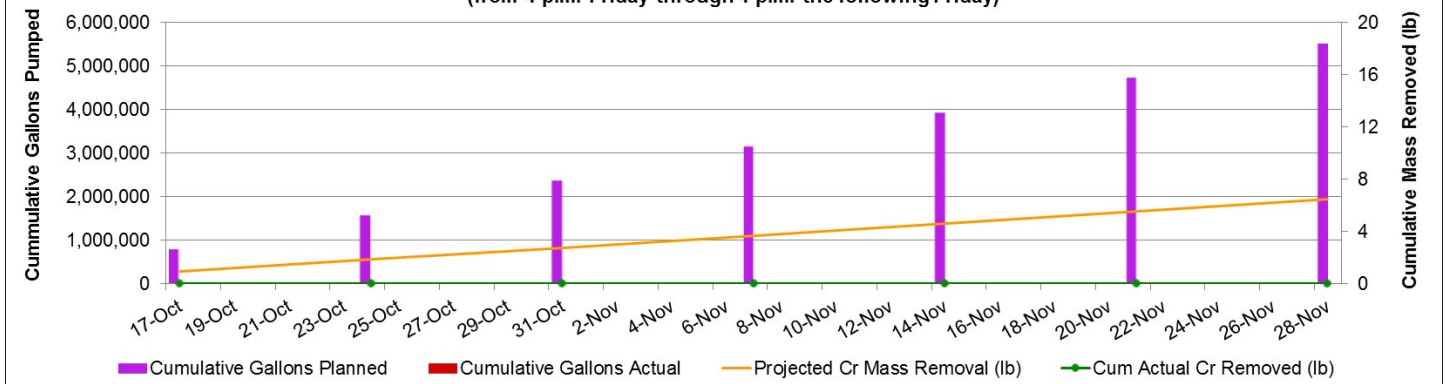
*“Days with measured flow” is computed as the sum of the number of days each station exhibited flows >5 cfs.

Notes:

- (1) There were data missing during this period from E250 because of equipment failure.

Chromium Project Metrics

(from 4 p.m. Friday through 4 p.m. the following Friday)



Notes:

- (1) Projected chromium mass removal for fall 2014.