

**DEPARTMENT OF ENERGY**  
Environmental Management – Los Alamos Field Office (EM-LA)  
Los Alamos, New Mexico 87544

**APR 15 2015**

**CERTIFIED MAIL-RETURN RECEIPT REQUESTED**

Kathryn Roberts  
Resource Protection Division  
New Mexico Environment Department  
P.O. Box 5469  
Santa Fe, NM 87502-5469



Dear Ms. Roberts:

**Subject: Transmittal of the Fiscal Year 2015 Second Quarter Status Report**

Please review the enclosed Los Alamos National Laboratory (LANL) Water Protection Status Report for the second quarter of Fiscal Year (FY) 2015. As stated in previous submittals, the Environmental Projects Office will no longer submit quarterly status reports for the 3,706 Campaign due to inactivity.

LANL made no additional progress in removing newly generated waste during this quarter.

The enclosed quarterly status report will be highlighted from a link on the LANL website and will be available for public review. If you have any questions, please contact David Rhodes of my staff at (505) 665-5325.

Sincerely,

Christine Gelles  
Acting Manager  
Environmental Management  
Los Alamos Field Office

Enclosures

cc w/enclosures:

John Kieling

Chief

Hazardous Waste Bureau

New Mexico Environment Department

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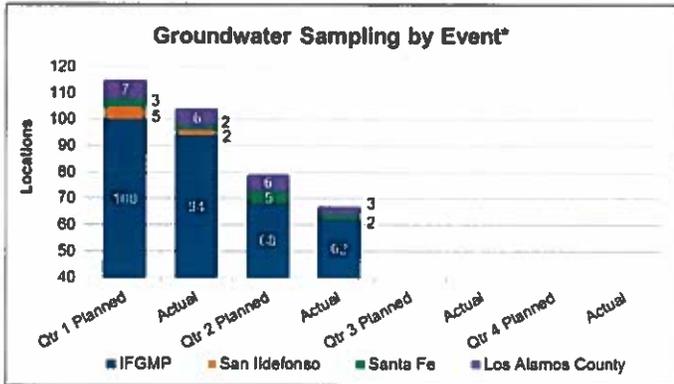
Official Contract File, EM-LA

EPO-32DN-751-621942

# LANL Water Protection Status Report — Fiscal Year 2015 Second Quarter (January to March 2015)

	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	☑	☑		
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.

### Second Quarter Sampling Event Deviation Explanations:

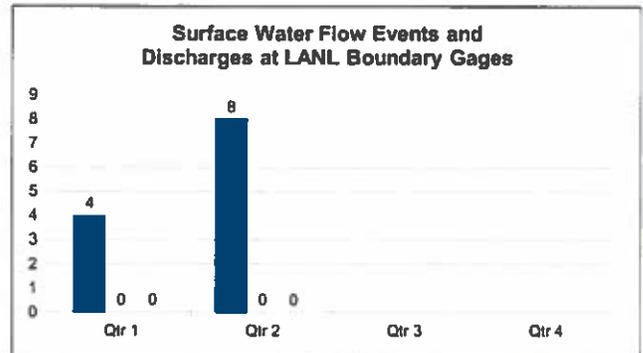
- (1) **IFGMP:** CdV below MDA P frozen; SWSC Spring, FLC-25280, and MSC-16-0294 dry; CdV-16-1i inaccessible; CdV-9-1i and R-63i not constructed.
- (2) **City of Santa Fe:** Buckman 1, 6, and 8 offline.
- (3) **Los Alamos County:** PM-2, -4, and -5 offline.

FY15, 1st Quarter (Oct–Dec) Analytical Summary: Los Alamos National Laboratory (LANL) has received analytical data for 10 water supply wells and 94 IFGMP (LANL) locations. Of the 104 locations sampled, results for all samples have been received with a total of 24,907 analyte measurements. No new exceedances were confirmed to be from a LANL source.

The Groundwater Sampling by Event chart for 1st quarter actual locations sampled was revised to reflect that only two of the three City of Santa Fe wells were sampled in the 1st quarter. PM-8 was offline because of mechanical issues.

FY15, 2nd quarter (Jan–Mar) 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.

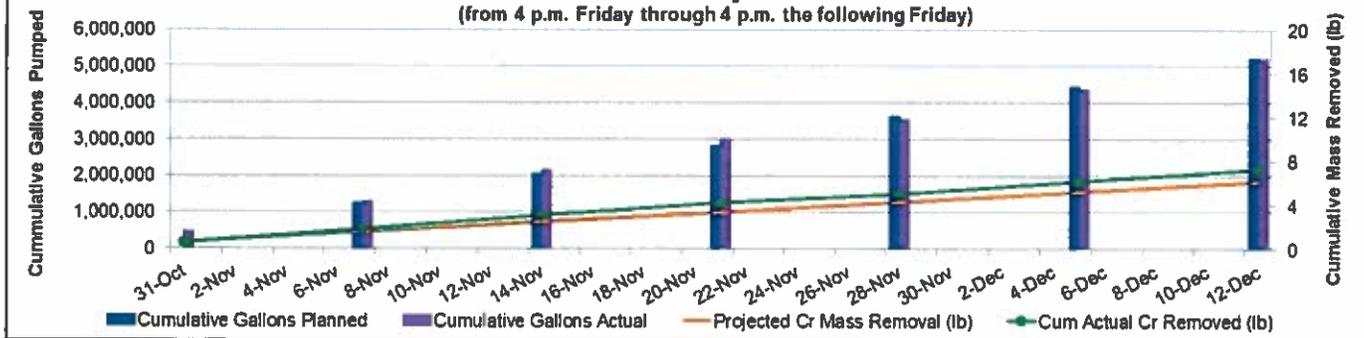
### Notes:

- (1) Three days of flow at E038 in the 2nd quarter were snowmelt.
- (2) Missing data (59 days) at E121 because of equipment malfunction in the evenings. The issue has been corrected.
- (3) Missing data (4 days) at E240 because of equipment malfunction. The issue has been corrected.
- (4) Missing data at the following stations because of ice interference:
 

E026, 32 days	E040, 9 days	E201, 42 days
E038, 48 days	E055.5, 22 days	E229.3, 12 days
E039.1, 4 days	E123, 22 days	E245.5, 31 days

## Chromium Project Metrics

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



### Notes:

- (1) Through the end of FY15, 1<sup>st</sup> quarter, a total of 7.3 lb of chromium was removed from the 5.2 million gallons of groundwater extracted from the aquifer below Mortandad Canyon.
- (2) Pumping is suspended for the winter and will resume during 2015.

