



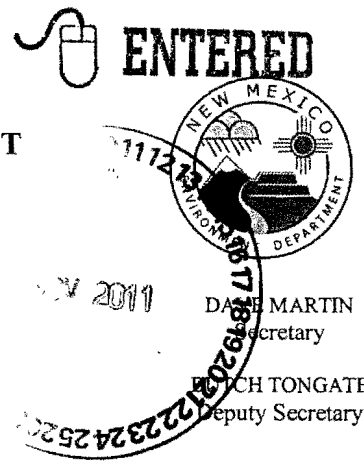
SUSANA MARTINEZ  
Governor

JOHN A. SANCHEZ  
Lieutenant Governor

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NEW MEXICO  
ENVIRONMENT DEPARTMENT

*Ground Water Quality Bureau*

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**CERTIFIED MAIL – RETURN RECEIPT REQUESTED**

November 9, 2011

Jeffrey M. Casalina  
Deputy Designated Federal Official (DDFO)  
Office of Environmental Operations (OEO)  
U.S. Department of Energy  
National Nuclear Security Administration  
Los Alamos Site Office  
3747 West Jemez Road MS A316  
Los Alamos, NM 87544

Denny Hjeresen,  
Acting ENV Division Director  
Los Alamos National Security, LLC.  
Los Alamos National Laboratory  
P.O. Box 1663, MS K404  
Los Alamos, NM 87544

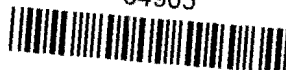
**SUBJECT: Spill Response Assessment and Closure of Release ID# 2011-312 occurring at Monitoring Wells R-1 and R-61, reported to NMED on August 15, 2011**

Dear Messrs. Casalina and Hjeresen:

On August 15, 2011, representatives of Los Alamos National Security, LLC (LANS) reported an unauthorized discharge to the New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB) as required by 20.6.2.1203 New Mexico Administrative Code (NMAC) of the Water Quality Control Commission (WQCC) Regulations. The report identified ground water with recently confirmed detection levels of Acrolein at 0.00195 mg/L in regional aquifer monitoring well R-1. This well is located in Mortandad canyon within Los Alamos National Laboratory with a depth to water of approximately 1,031 feet. Acrolein (CAS No. 107-02-8) is considered to be a toxic pollutant as defined under Subsection WW of 20.6.2.7 NMAC at a concentration of 0.000042 mg/L as derived from the EPA Regional Screening Levels (RSL) for residential tap water (June 2011). The source(s) of the exceedance was not identified in the report.

The report also identified ground water with recently confirmed detection levels of perchlorate and dibenz(a,h)anthracene at 0.00654 mg/L and 0.0036 mg/L respectively in regional aquifer monitoring well R-61. This well is also located in Mortandad canyon within Los Alamos National Laboratory with a depth to water of approximately 1,125 feet. Perchlorate (CAS No. 14797-73-0) is considered to be a toxic pollutant as defined under Subsection WW of 20.6.2.7 NMAC at a concentration of 0.026 mg/L as derived from the EPA RSL for residential tap water

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(June 2011). Although dibenz(a,h)anthracene (CAS No. 53-70-3) is listed under the EPA RSL for residential tap water, it is not a toxic pollutant as defined under Subsection WW of 20.6.2.7 NMAC. The source(s) of the exceedances were not identified in the report.

**The report asserts that corrective actions to address this release are being coordinated with the NMED Hazardous Waste Bureau (HWB) in accordance with the Compliance Order on Consent (Consent Order) proceeding under the New Mexico Hazardous Waste Act § 74-4-10 and the New Mexico Solid Waste Act § 74-9-36(D) between NMED and the United States Department of Energy and the Regents of the University of California for Los Alamos National Laboratory. Based on the information in the Release/Discharge Notification submitted by LANS to GWQB on August 19, 2011, in accordance with 20.6.2.1203 NMAC, and because corrective actions are being coordinated with the HWB under the Consent Order, no further action is required at this time for release ID#2011-312. Please continue to coordinate any additional corrective actions related to the release with the HWB.**

The GWQB reserves the right to require additional corrective actions not already being required should LANS fail to complete corrective actions to the satisfaction of the HWB. Furthermore, nothing in this letter shall be construed as relieving the United States Department of Energy or LANS, of its obligation to comply with all other applicable federal, state, and local laws, regulations, permits or orders.

If you have any questions, please contact either Jennifer Fullam at (505) 827-2909 or Clint Marshall, Acting Program Manager of the Ground Water Pollution Prevention Section, at (505) 827-0027.

Sincerely,



Clint Marshall, Acting Program Manager  
Ground Water Quality Bureau

CM:JF

cc: Mr. Gene Turner, DOE/AIP/POC, U.S. Department of Energy, Los Alamos Site Office,  
MS 16 528 35<sup>th</sup> Street, Los Alamos, NM 87545  
Ms. Tori George, LANS/LANL-EP-RS, LLC P.O. Box 1663 MS M992 Los Alamos, New  
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Tina Sandoval, LANS/ENV-RCRA/WQ, P.O. Box 1663, MS K490, Los Alamos, New  
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Jake Meadows, LANS/ENV-RCRA/WQ, P.O. Box 1663, MS K490, Los Alamos, New  
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Jennifer Fullam, NMED/GWQB

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