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Governor

JOHN A. SANCHEZ  
Lieutenant Governor

**NEW MEXICO  
ENVIRONMENT DEPARTMENT**

***Hazardous Waste Bureau***

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Secretary

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THOMAS SKIBITSKI  
Acting Director  
Resource Protection Division

EP2013-5062

**CERTIFIED MAIL - RETURN RECEIPT REQUESTED**

March 20, 2013

Peter Maggiore, Assistant Manager  
Environmental Projects Office  
Department of Energy/National  
Nuclear Security Administration  
Los Alamos Site Office  
3747 West Jemez Road, Mail Stop A316  
Los Alamos, NM 87544

Jeffrey D. Mousseau, Associate Director  
Environmental Programs  
Los Alamos National Security, LLC  
P.O. Box 1663, MS M991  
Los Alamos, NM 87545

**RE: REVIEW  
2012 ANNUAL INSPECTION REPORT FOR LOS ALAMOS COUNTY  
AIRPORT LANDFILL, SOLID WASTE MANAGEMENT UNITS 73-001(a)  
AND 73-001(d), TECHNICAL AREA 73  
LOS ALAMOS NATIONAL LABORATORY  
EPA ID #NM0890010515  
HWB-LANL-13-002**

Dear Messrs. Maggiore and Mousseau:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security, LLC (LANS) (collectively, the Permittees) *2012 Annual Inspection Report for Los Alamos County Airport Landfill, Solid Waste Management Units 73-001(a) and 73-001(d), Technical Area 73*, dated February 14, 2013, and referenced by EP2013-0002/LA-UR-13-20302.

In accordance with NMED's *Final Implementation Strategy for Post Closure Inspection and Maintenance of the Airport Landfill SWMU 73-001(a) and Debris Disposal Area SWMU 73-001(d), Los Alamos County Airport, New Mexico* (Closure and Inspection Plan) dated August 13,

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2009, the Permittee have conducted the monthly, quarterly, annual, and post significant precipitation event inspections required for 2012. The Permittees have documented the observations of subsidence, lifting, visible cracking, and water ponding observed at the site.

#### Cracks and Seals to Cement

The Permittees reported extensive cracking and damage to seams on Hangars 1-4 and Pads 2-5 during their monthly inspections. The Permittees report that the cracks and seams were resealed on November 3, 2012. At the monthly inspection scheduled for November 29, 2012, the Permittees provided adequate documentation (*i.e.*, photographs) demonstrating the application of sealant to the cracks and seams previously reported at the Pads 2-5 and Concrete Hangars 1-4.

#### Wattles and Erosional Controls

During the post-precipitation event inspection, on October 15, 2012, the Permittees reported evidence of sheet flow, minor rilling and sediment accumulation behind wattles and expressed the need to replace wattles with sediment behind them, and the need to have the rill replaced with angular riprap. The Permittees report that straw wattles, were added to the slope and that the rill was filled with angular riprap on November 12, 2012, and provided adequate documentation (*i.e.*, photographs) during the inspection on November 29, 2012.

#### Subsidence and Lifting

The Permittees reported that subsidence, and lifting on the cement pads and hangars at the landfill. The Permittees stated 'Remedies for the permanent corrective action are beyond the scope of the inspection' from January 19, 2012 through November 29, 2012. The Permittees are responsible for maintaining the integrity and effectiveness of the final cover of the landfill and must address the subsidence and lifting that has occurred to the cement pads and hangar. The Permittees must the repair the cements pads and provide documentation of actions taken to NMED in the 2013 annual Report.

#### Gas Emissions

The Permittees reported that the perimeter spinner (PS) 02, 03, and 05 caps had been removed, and vent riser turbine spinners were installed on October 2, 2012. Landfill gas was detected at all three locations. The Permittees report that the methane gas with a lower explosive limit (LEL) of 90% at PS 02, 67% at PS 03, and 23% at PS 05 on October 29, 2012. The Permittees shall continue to monitor landfill gas quarterly since the concentrations (90% and 67%) were greater than the exceedance level of 25%, in accordance with Section 9.7 of the Closure and Inspection Plan.

#### Vegetated (Seeded) Areas

The Permittees reported healthy vegetation well populated with various grasses, some shrubs and seasonal weeds. No animal burrows were observed by the Permittees at this time.

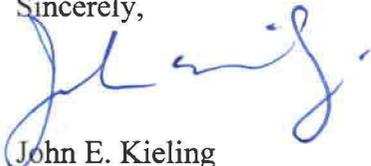
Messrs. Maggiore and Mousseau  
March 20, 2013  
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The Permittees have fulfilled their obligation to conduct the site inspections and submit an annual report to NMED. The Permittees must continue to conduct monthly, quarterly, annual, and gas venting inspections at SWMU-73-001(a) and 73-001(d). The Permittees must continue to include documentation of the results and repair work to the landfill site in the annual report submitted to NMED.

The inspection report for next year is due no later than February 14, 2014.

Please contact Siona Briley at (505) 476-6049 if you have any questions regarding this letter.

Sincerely,



John E. Kieling  
Chief  
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB  
S. Briley, NMED HWB  
N. Dhawan, NMED HWB  
L. King, EPA Region 6, Dallas TX  
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P. Soderquist, Los Alamos County Airport Manager

File:LANL (TA-73) Annual Site Inspection Report 2012 LANL-13-002

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