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Lieutenant Governor

OSM ENTERED  
NEW MEXICO  
ENVIRONMENT DEPARTMENT

*Hazardous Waste Bureau*

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DAVE MARTIN  
Cabinet Secretary

BUTCH TONGATE  
Deputy Secretary

JAMES H. DAVIS, Ph.D.  
Director  
Resource Protection Division

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

September 10, 2012

P. Maggiore, Assistant Manager  
Los Alamos Site Office  
3747 West Jemez Road, MS A316  
Los Alamos, NM 87544

Bruce Schappell  
Deputy Associate Director for ADEP  
LANL - ADEP  
PO BOX 1663  
MS M991  
Los Alamos, NM 87545

**RE: APPROVAL WITH MODIFICATIONS  
INVESTIGATION REPORT FOR LOWER MORTANDAD / CEDRO CANYONS  
AGGREGATE AREA  
LOS ALAMOS NATIONAL LABORATORY  
EPA ID #NM0890010515  
HWB-LANL-11-082**

Dear Messrs. Maggiore and Schappell:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Investigation Report for Lower Mortandad/Cedro Canyons Aggregate Area, Revision 1* (IR), dated August 2012, received August 22, 2012, and referenced by LA-UR-12-23970 and EP2012-0188. NMED has completed review of the IR and hereby issues this Approval with the following Modifications.



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**Modification 1:**

The Permittees shall conduct and submit a human health risk assessment which considers a construction worker scenario in the event of future development of sites located within Technical Area 5.

**Modification 2:**

In any future aggregate area or canyon investigation report where chromium is an apparent contaminant of concern, the Permittees must evaluate chromium speciation and evaluate associated potential risks to human health and the environment. In the event speciation of chromium is not determined, the Permittees must assume an inhalation unit risk for total chromium based on a one to six ratio of hexavalent chromium to trivalent chromium as noted in the most recent version of U.S. Environmental Protection Agency's Integrated Risk Information System database.

Please contact Daniel Comeau at (505) 476-6043 if you have any questions concerning this letter.

Sincerely,



John E. Kieling  
Chief  
Hazardous Waste Bureau

cc: N. Dhawan, NMED HWB  
D. Cobrain, NMED HWB  
S. Yanicak, NMED DOE OB, MS J993  
T. Skibitski, NMED DOE OB  
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