

LANL TA-03

State of New Mexico
ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

2905 Rodeo Park Drive East, Building 1

Santa Fe, New Mexico 87505-6303

Telephone (505) 428-2500

Fax (505) 428-2567

www.nmenv.state.nm.us



BILL RICHARDSON
GOVERNOR



RON CURRY
SECRETARY

DERRITH WATCHMAN-MOORE
DEPUTY SECRETARY

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

March 31, 2004

Mr. G. Pete Nanos, Director
Los Alamos National Laboratory
P.O. Box 1663, Mail Stop A100
Los Alamos, New Mexico 87545

Mr. David Gregory, Federal Project Director
Los Alamos Site Office
Department of Energy
528 35th Street, Mail Stop A316
Los Alamos, New Mexico 87544

**SUBJECT: APPROVAL WITH MODIFICATIONS OF THE GROUNDWATER
INVESTIGATION WORK PLAN FOR SOLID WASTE MANAGEMENT
UNIT 3-010(a) AT TECHNICAL AREA 3
LOS ALAMOS NATIONAL LABORATORY
EPA ID# NM0890010515
NMED TASK # LANL-03-020**

Dear Messrs. Nanos and Gregory:

The New Mexico Environment Department (NMED) is in receipt of the *Groundwater Investigation Work Plan for Solid Waste Management Unit 3-010(a) at Technical Area 3*, dated October 2003 and referenced by LA-UR-03-7349 (ER2003-0636). The NMED hereby approves this work plan with the following modifications:

- The Department of Energy and the University of California (collectively, the Permittees) shall install 3 vertical boreholes in addition to the proposed 2 vertical boreholes. The boreholes shall intersect the perched alluvial water and/or the surge bed at the base of unit Qbt 4 of the Bandelier tuff. The boreholes shall be completed as temporary peizometers. The Permittees shall use data collected from these peizometers and the existing well (MW-1) to determine locations for permanent monitoring wells. The Permittees shall consult with NMED's Hazardous Waste Bureau prior to selecting the locations for the permanent



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- monitoring wells. The Permittees shall not install the proposed angled borehole.
- The Permittees shall collect samples for submittal to an analytical laboratory every ten feet of borehole length and from the fill/tuff interface instead of the proposed 20-foot interval. Additional samples shall be collected as described in the work plan.
 - The Permittees shall determine the extent of contamination at SWMU 3-001(e). If contamination is encountered, the Permittees shall submit a SWMU assessment report to NMED. The Permittees shall excavate and remove contamination at SWMU 3-001(e) if it appears to be a source of groundwater contamination at SWMU 3-010(a).
 - The Permittees shall provide the boring log for the geophysical borehole 03-22098 within 15 days of receipt of this letter.
 - The Permittees shall provide brief descriptions of the procedures used during the investigation as part of the investigation report.

If you have any questions regarding these comments, please contact me at (505) 428-2548.

Sincerely,



Darlene Goering
Project Leader
Hazardous Waste Bureau

cc: C. Voorhees, NMED DOE-OB
S. Yanicak, NMED DOE-OB, MS J993
L. King, EPA, 6PD-N
D. McInroy, RRES-RS, MS M992
J. Vozella, DOE OLASO, MS A316
B. Ramsey, LANL, RRES-DO, MS J591
N. Quintana, LANL, RRES-ER, MS M992
File: Reading and ~~LANL~~ (SWMU 3-001(e))