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**U.S. Department of Energy**  
 Los Alamos Area Office, MS A316  
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Date: July 18, 2000  
 Refer to: ER2000-0344

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 JUL 20 2000  
 MAIL ROOM

Mr. John Kieling  
 NMED-HRMB  
 P.O. Box 26110  
 Santa Fe, NM 87502

**SUBJECT: LONG-TERM MONITORING STRATEGY FOR MATERIAL DISPOSAL AREAS (MDAs) AT LOS ALAMOS NATIONAL LABORATORY (LANL)**

Dear Mr. Kieling:

LANL's Environmental Restoration (ER) Project's MDA and A<sup>3</sup> Focus Areas have scheduled a one-day meeting on August 9, 2000 to discuss long-term site monitoring requirements for MDAs. The purpose of the meeting is to review and discuss the current state of the art alternatives and regulatory requirements for long term monitoring at other arid sites in the Southwest. The goal of the meeting is to develop a preliminary conceptual design for long-term site monitoring at MDAs at LANL for incorporation into future ER Project planning.

A draft agenda is enclosed. The meeting will be held in Los Alamos at the Department of Energy Los Alamos Area Office main conference room from 9:00 am to 3:00 pm. Please advise if you and any of your staff would like to attend to ensure we have adequate space and presentation materials for everyone. Also, feel free to comment on the agenda. If you have any questions, please don't hesitate to contact Dave McInroy at (505) 667-0819 or John Hopkins at (505) 667-9551.

Sincerely,

Julie A. Canepa, Program Manager  
 Los Alamos National Laboratory  
 Environmental Restoration

Sincerely,

for Joseph H. Mac

Theodore J. Taylor, Program Manager  
 Department of Energy  
 Los Alamos Area Office

JC/TT/PB/ev

Enclosure: Draft Meeting Agenda



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HSWA LANL 6/18/00

TC

Cy (w/enc.):

P. Bertino, E/ER, MS M992  
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A. Dorries, EES-13, MS M992  
L. Woodworth, LAAO, MS A316  
D. McInroy, E/ER, MS M992  
J. Mose, LAAO, MS A316  
D. Neleigh, US EPA (2 copies)  
T. Taylor, LAAO, MS A316  
J. Bearzi, NMED-HRMB  
M. Coffman, NMED-HRMB  
J. Davis, NMED-SWQB  
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E/ER File, MS M992  
RPF, MS M707

**Long-Term Monitoring Strategy  
Material Disposal Areas  
Los Alamos National Laboratory**

**Meeting Agenda  
August 9, 2000  
9:00 AM to 3:00 PM  
DOE LAAO Main Conference Room**

**John Hopkins, LANL ER, MDA Focus Area Leader (30 minutes)**

- Problem Statement: Long-Term Monitoring Strategy for material disposal areas (MDA) proposed for evapo-transpiration (ET) covers.
- Eleven MDA's proposed for E-T covers
- Long term monitoring (LTM) strategy: performance vs. risk
- Candidate LTM technologies

**Diana Hollis, LANL ER (30 minutes)**

- LANL geology and hydrogeology

**Break (15 minutes)**

**Steve Dwyer, P.E., Consultant (30 minutes)**

- Draft EPA Closure Guidance for Alternative Landfill Covers

**Scott McMullen or Steve Dwyer (30 minutes)**

- DOE strategy to monitoring
- Guidance in draft
- Performance vs. Risk
- Define monitoring approach, define terminology

**Break (15 minutes)**

**Mark Ankeny, Ph.D., Daniel B. Stephens & Associates, Inc. (30 minutes)**

- Vadose zone road map
- Monitoring strategy: performance vs. risk

**Daniel B Stephens, Ph.D. (60 minutes)**

- State of the art in monitoring technologies, existing and emerging technologies

**Representative Projects with Site-Specific Monitoring Technologies (60 minutes):**

- SNL CAMU, Scott Den-Baars
- MDA J LANL, Scott Den-Baars
- EPA, Alternative Cover Performance, Steve Dwyer
- UMTRA, Monticello, Steve Dwyer

## **Meeting Agenda (cont.)**

- SNL MW Landfill, Steve Dwyer
- SNL Cover performance test site
- NTS

### **John Hopkins, LANL ER (15 minutes)**

- Monitoring strategy, performance vs. risk based
- Closing remarks