

HSUA LANL 1/1106/21/21-024(c+i)
9 027(a)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

Sta -
Please forward
by 1/14/98 to
return to EPA
by above date with response
Brent
1/14/98

JAN 16 1998

Mr. Benito Garcia, Chief
Hazardous and Radioactive
Materials Bureau
New Mexico Environment Department
2044A Galisteo Street
Santa Fe, NM 87505

Re: Modifications on the Phase II Sampling and Analysis Plans
(SAPS) for PRSs 21-024(c) and 21-027(a), Los Alamos National
Laboratory (LANL), EPA I.D. NM0890010515

Dear Mr. Garcia:

The Environmental Protection Agency (EPA) has reviewed
LANL's Supplemental Information for the Phase II SAPS for PRSs
21-024(c) and 21-027(a), dated December 15, 1997, and has found
the SAPS to be approvable with modifications. Enclosed are the
modifications for your review.

Should you have any questions, please feel free to contact
Mr. Rich Mayer at (214) 665-7442.

Sincerely,

David W. Neveigh
David W. Neveigh, Chief
New Mexico and Federal
Facilities Section

Enclosure

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Modifications on the SAPS for PRSs 21-024(c) and 21-027(a)

General Modification for both PRSs: If the deepest soil sample taken is still contaminated (from either visual, VOC, XRF, or radiation field screening), then LANL shall take deeper vertical soil/tuff samples to determine the vertical extent of contamination. The background readings for each screening instrument shall be included in the soil boring descriptions. Also, the background reading locations shall be included on a map. All the above information should be included in the RFI Phase II Report.

PRSs 21-024(c) Modifications

General Modification: LANL should begin sampling at the septic tank first in case organic (volatile or semivolatile constituents) contamination is found. If organic contamination is found, then the outfall areas can be analyzed for those contaminants.

Page 8; Field Screening: Each soil boring log shall indicate the depth between the soil and the tuff.

Page 8; Outfall Area: EPA will require that LANL take a soil sample next to the outfall (at Phase I sample location 21-1391) from the 3 to 3 ½ foot interval. Since LANL has already taken a 6-12 inch sample at location 21-1391, LANL shall also take a soil sample at the 12-18 inch interval.

Also, EPA will require an additional soil boring in **front** of the juniper tree. Sampling intervals shall be 0-6 inches, 12-18 inches and 3 to 3 ½ foot.

In addition, EPA will require that each sampling location other than the intervals mentioned above have a sample taken from 2-2.5 feet, regardless of the depth of the tuff at this location. If the depth of the tuff is greater than 2 feet, the LANL may sample 0-6 inches from where the tuff begins. However, if the tuff depth is less than 2 feet, then a sample must also be taken from the 2-2.5 foot sampling interval.

Page 12; Table 1: At the bottom of this table it mentions that the base of the septic tank is assumed to be 9 feet below ground surface; however, in the table it indicates that the soil samples around the septic taken will be taken from 7-8 feet. This should be changed to read 9-10 feet.

PRS 21-027(a) Modifications

General Modification: Each soil boring log shall indicate the depth between the soil and the tuff. Also, each soil boring taken shall be screened for VOCs.

Page 8; Sampling Locations and Methods: EPA will require that a 12-18 inch and a 3-3.5 foot soil sample be taken at sample locations 21-1365 and 21-364. Also, EPA will require a soil boring where the concrete storm drain empties onto the ground. Sampling intervals shall be 0-6 inches, 12-18 inches, and 3-3.5 feet. The Phase I soil sampling event failed to take a sample next to the concrete drain.

In addition, EPA will require that each sampling location other than the locations mentioned above have a sample taken from 2-2.5 feet, regardless of the depth of the tuff at this location. If the depth of the tuff is greater than 2 feet, the LANL may sample 0-6 inches from where the tuff begins. However, if the tuff depth is less than 2 feet, then a sample must also be taken from the 2-2.5 foot sampling interval.