

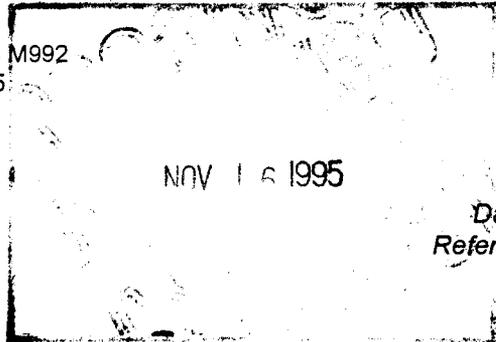
LANL  
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TAY

# Los Alamos National Laboratory

ENVIRONMENTAL RESTORATION

Rev OCT  
Burt  
Sta NO

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**U. S. Department of Energy**  
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Date: November 9, 1995  
Refer to: EM/ER:95-596

Teri ✓  
Swa ✓

Ms. Barbara Driscoll  
NM Federal Facilities Section  
Multimedia Planning and Permitting Division  
EPA, Region 6, 6PD-N  
1445 Ross Avenue, Suite 1200  
Dallas, TX 75202-2733

**SUBJECT: RESPONSE TO THE EPA LIST OF MODIFICATIONS FOR  
SOLID WASTE MANAGEMENT UNIT (SWMU) 0-001**

Dear Barbara:

Enclosed is our response to your list of modifications for SWMU 0-001. Please contact Allyn Pratt at 505-667-4308 or Bob Simeone at 505-667-0587, if you have any questions.

Sincerely,

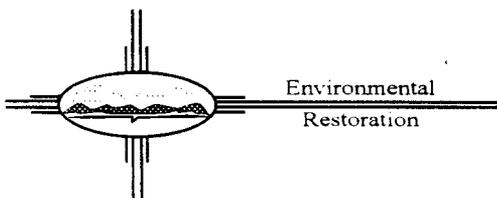
Jorg Jansen, Program Manager  
Environmental Restoration

Sincerely,

Theodore J. Taylor, Program Manager  
Los Alamos Area Office

JJ/TT/bp

- Enclosure: (1) HSWA Perched Zone Monitoring Wells and SWMU No. 0-001  
(2) LA-11333-MS, "Quality of Surface and Ground Water at and Adjacent to the Los Alamos National Laboratory: Reference Organic Compounds"  
(3) Generic QA Project Plan, LANL-ER-QAPjP, R0



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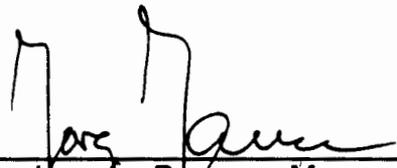
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## CERTIFICATION

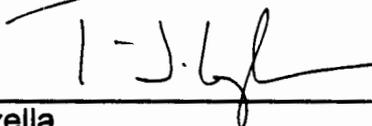
I certify under penalty of law that these documents and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

Document Title: List Of Modifications Directed At The Solid Waste Management Unit 0-001

Name:  Date: 10-25-95  
Jorg Jansen, Program Manager  
Environmental Restoration Project  
Los Alamos National Laboratory

or

Tom Baca, Program Director  
Environmental Management  
Los Alamos National Laboratory

Name:  Date: 11/1/95  
Joseph Vozella,  
Acting Assistant Area Manager of  
Environment Projects  
Environment, Safety, and Health Branch  
DOE-Los Alamos Area Office

or

Theodore J. Taylor  
Program Manager  
Environment Restoration Program  
DOE-Los Alamos Area Office

## HSWA Perched Zone Monitoring Wells and SWMU No. 0-001

### 1. 2.2 Sampling and Analysis Plan, p. 4

- a. Next to last paragraph - LANL must conduct analysis for organics in the final quarter of ground water sampling in 1995.

Response: Agreed. LANL will conduct the requested organic analyses. We interpret this request to include analyses for VOCs and SVOCs.

- b. 6th paragraph - Please clarify what is meant by "most recent data". Also, if PID or FID readings indicate significant volatile organic contamination, then LANL should not place the purged groundwater on the ground.

Response: "Most recent data" refers to 1993 sampling events conducted in Los Alamos Canyon, and 1994 sampling events conducted in Pueblo, Los Alamos, and Mortendad Canyons. The sampling suites were for VOCs and SVOCs. Based on the results of previous sampling activities, reference LA-11333-MS, VOCs and SVOCs are below analytical detection limits. Therefore, it is doubtful if VOCs and SVOCs exist at limits that could be detected by a PID or FID. However, to answer this concern the sampling crew will use a PID to ensure that VOCs and SVOCs are not present at levels that would be of concern to purge the groundwater on the ground.

### 2. 2.4 Schedule and Products

- a. LANL shall provide EPA with a schedule for all sampling dates for 1995.

Response: For 1995, quarterly sampling occurred during the weeks of March 27, June 26, August 7, and fourth quarter sampling will occur by the end of December

- b. Table 4 - LANL needs to include the detection limits for the appropriate EPA analysis method. The footnotes on this page refer to Table V, but Table V is not in the workplan.

Response: Thank you for identifying this inadvertent omission. The detection limits used for the analyses of samples are found in the "Environmental Restoration Generic Quality Assurance Project Plan". Tables V-3 through V-10 (Section 5 p. 5-10 through 5-23). A copy of these tables are enclosed.

3. Sample Screening and Analysis, p. 11

LANL needs to include arsenic and lead as metals which need to be analyzed in the soil/sludge samples.

Response: Agreed. These analytes were intended to be included in the analyte suites. They were inadvertently left off of the list. Total arsenic and lead analysis will be performed on soil samples collected during sampling of SWMU 0-001. The list of metals to be analyzed using inductively coupled plasma atomic emission spectroscopy (ICPES) are listed below.

Silver	Magnesium
Aluminum	Manganese
Arsenic	Molybdenum
Barium	Sodium
Beryllium	Potassium
Calcium	Lead
Cadmium	Antimony
Cobalt	Selenium
Chromium	Strontium
Copper	Titanium
Iron	Thallium
Potassium	Vanadium
Lithium	Zinc

4. LANL shall sample the Mortendad sediment traps during 1995 and submit this information with the results of ground water sampling.

LANL needs to include arsenic and lead as metals which need to be analyzed in the soil/sludge samples.

Response: Agreed LANL sampled the Mortandad sediment traps during the week of October 23. The ground water sampling report is planned for March 1996. If all data are not available when the ground water report is submitted, a separate report of the soil sampling results will be provided when all data are available.