

**SAIC**

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**MEMORANDUM**

**TO:** Alex Puglisi, ESH-18, MS K497  
**FROM:** Janet Jacobson, SAIC, MS J521 *JJG*  
**RE:** Notice of Intent to Discharge for LA/Pueblo Canyons Pilot Study  
**DATE:** February 12, 1996

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Attached is a Notice of Intent (NOI) to discharge well development water and well purge water associated with the ER Project's Canyons Pilot Study to the ground in Los Alamos and Pueblo Canyons. These wells are in Field Unit 4, and OU 1049; Allyn Pratt, EES-13 is the FPL, Deba Daymon, ERM, is the Project Manager, and Grant Evenson, ASI, is the Field Team Leader.

If you have any comments or questions please contact Deba Daymon, ERM, at 662-3700 or myself at 672-3666.

Cy: Deba Daymon, ERM, MS M327



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TL

4/1049/00  
C-00-005

## NOTICE OF INTENT

To Discharge well development water and well purge water associated with the Environmental Restoration Program's Canyons Pilot Study

### 1. Name and address of the facility making the discharge.

Dennis J. Erickson  
Los Alamos National Laboratory  
P. O. Box 1663, MS K491  
Los Alamos, New Mexico 87545

### 2. Location of the discharge (in Township, Range, and Section, if available).

Various Locations:

Pueblo Canyon (maps attached)

POB-2, Alluvial well/borehole (to be less than 30 ft in depth)

PO-2, Alluvial well/borehole (to be less than 30 ft in depth)

PO-4, Alluvial well/borehole (to be less than 50 ft in depth)

POI-4, Intermediate well/borehole (to be less than 250 ft in depth)

Los Alamos (LA) Canyon (maps attached)

LLAO-5, Alluvial well/borehole (to be less than 100 ft in depth)

LAO-1.6, Alluvial well/borehole (to be less than 30 ft in depth)

LLAO-1, Alluvial well/borehole (to be less than 100 ft in depth)

LAOI-7, Intermediate well/borehole (to be less than 250 ft in depth)

Sandia Canyon (map attached)

SCOI-3, Intermediate well/borehole (to be approximately 550 ft in depth)

### 3. The means of discharge (to lagoon, flowing stream, water course, arroyo, septic tank, other).

Discharge will be to the ground at the well sites where the Environmental Restoration Programs Canyons Pilot Study will be drilled, within specified reaches of Pueblo and LA canyons. The discharges will result from well development and well purging, during monitoring and sample collection activities.

### 4. The estimated concentration of contaminants in the discharge.

The sites chose for the wells are not within areas expected to be contaminated. areas to be sampled are not expected to have contaminants present. Any added water used for well development will be deionized and free of contaminants. As an added precaution, prior to any discharge, field screening during the drilling, or purging activities will be performed to ensure that water discharged is free of contamination. If field screening instruments, or professional judgment (for instance, observation of evidence of soil stains, odors, etc.) indicate that gross quantities of

contaminants may be in the water, the liquid will not be discharged to the ground, but containerized and treated as suspect hazardous, radioactive, or mixed waste.

**5. The type of operation from which the discharge is derived.**

Investigations within the Laboratory's canyon areas are required by the Environmental Protection Agency (EPA) under the Resource Conservation and Recovery Act (RCRA) Hazardous and Solid Waste Amendments (HSWA) Module VII Permit for Los Alamos National Laboratory (the Laboratory). Los Alamos and Pueblo Canyons are part of the Environmental Restoration Program's (ER's) Operable Unit (OU) 1049, within Field Unit 4. These canyon areas of OU 1049 contain no Laboratory technical areas (TAs), solid waste management units (SWMUs), or potential release sites (PRSs). Investigations within the canyons will commence with an "expedited site-characterization", or the Pilot Study, consisting of selected field survey activities, sediment sampling and drilling and well installation activities. The ER Pilot Study in LA and Pueblo canyons will consist of geomorphic mapping, radiometric field surveys, sediment sampling, air particulate sampling stations, geophysical surveys and the installation of groundwater monitoring wells.

A total of nine monitoring wells (six alluvial and three intermediate depth) will be drilled, sampled and reamed in the specified reaches of the Pilot study. Core samples will be collected before and after each lithologic contact and analyzed for chemical and radiological constituents. The wells/boreholes will be completed as groundwater characterization wells in accordance with the *RCRA Ground Water Monitoring Technical Environment Guidance Document*; the *Laboratory's ER Standard Operating Procedures (SOPs) LANL-ER-SOP-4.01 Drilling Methods and Drill Site Management, LANL-ER-SOP-5.01 Monitor Well Construction, LANL-ER-SOP-5.02 Well Development, and LANL-ER-SOP-6.01 Purging of Wells for Representative Sampling of Ground Water*; and the *OU 1049 Task/Site Work Plan*. Copies of the four SOPs are attached.

**6. The estimated flow to be discharged per day.**

Less than 100 gallons of liquid will be discharged per active field day. An NOI Discharge Record will be maintained for every day a discharge occurs.

**7. The estimated depth to ground water (if available).**

The average depth to alluvial ground water from floor of Pueblo Canyon has not been extensively characterized and from the floor of LA Canyon is 0-25 ft. The estimated depth to the main aquifer from the floor of Pueblo Canyon is approximately 760 ft to 590 ft and from the floor of LA Canyon is approximately 970 ft to 722 ft.

Signed \_\_\_\_\_ Date: \_\_\_\_\_  
Group Leader, ESH-18

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Environmental Restoration Program's Canyons Pilot Study

**ATTACHMENT**

**Site Maps**

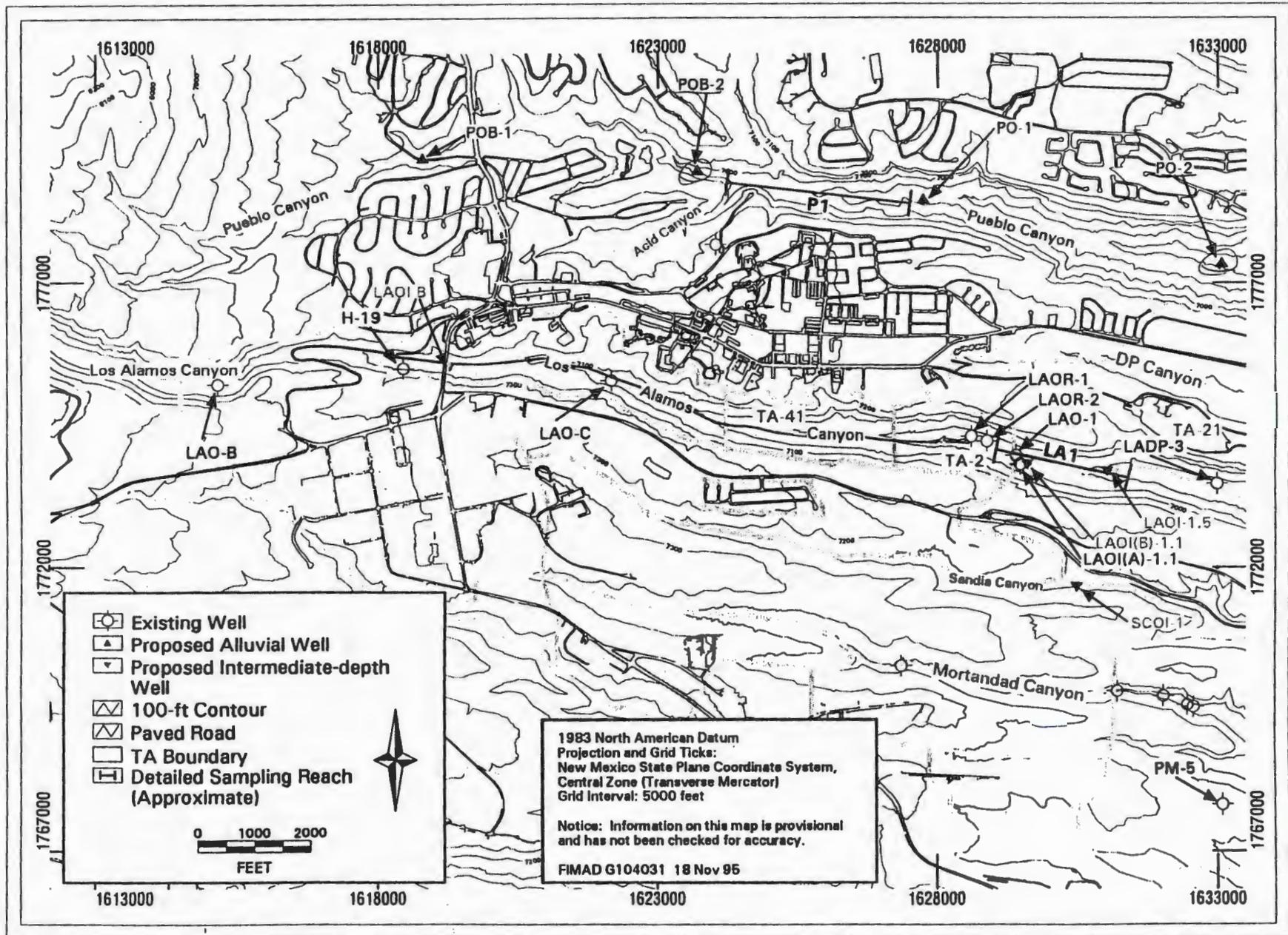


Figure 7-14. Proposed well locations: western Los Alamos and Pueblo Canyons



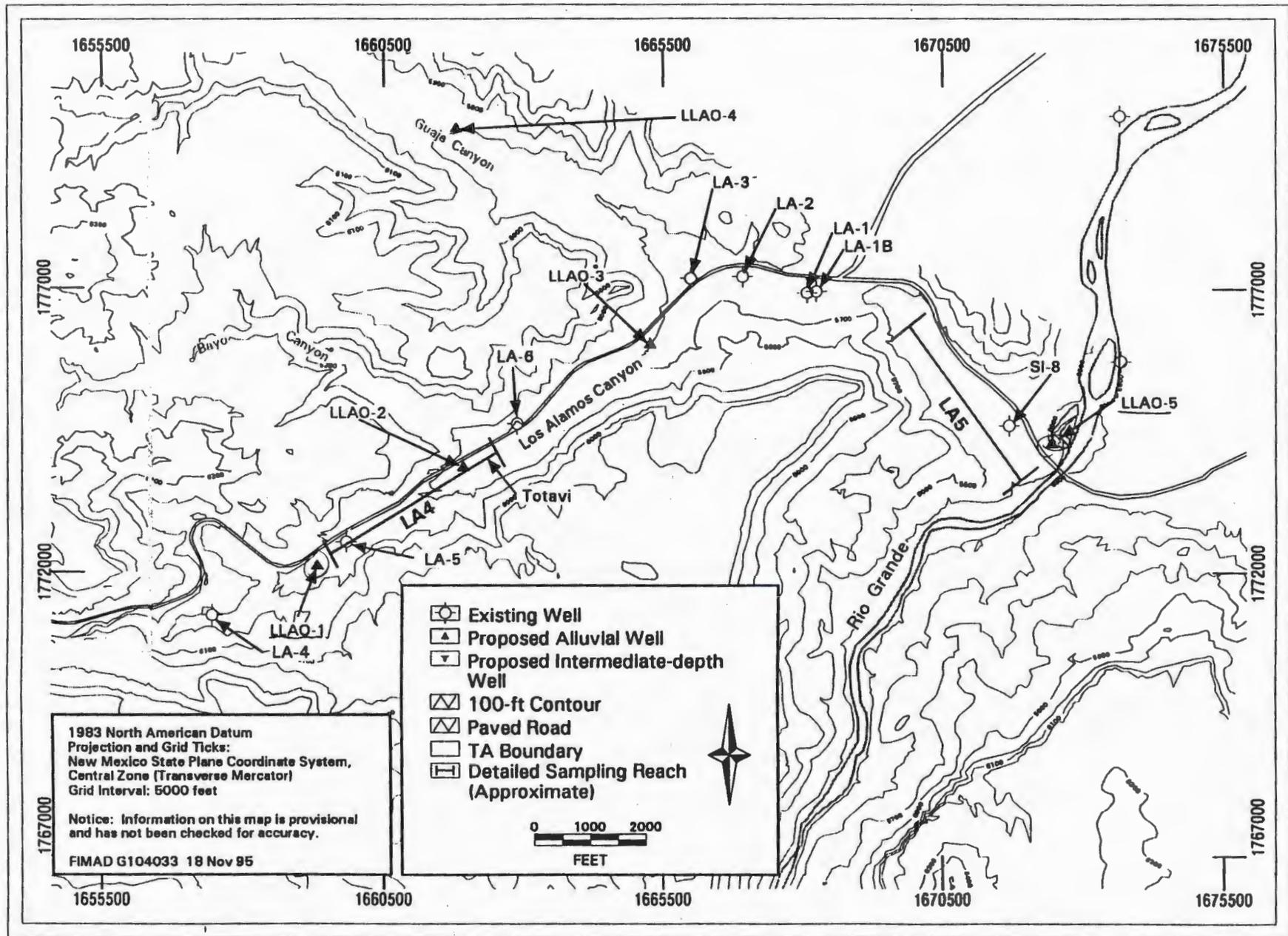


Figure 7-16. Proposed well locations: eastern Los Alamos and Pueblo Canyons