

# Los Alamos National Laboratory

UNIVERSITY OF CALIFORNIA



Environmental Science and Waste Technology (E)  
Environmental Restoration, MS M992  
Los Alamos, New Mexico 87545  
505-667-0808/FAX 505-665-4747

Date: August 9, 2001  
Refer to: ER2001-0646

HSWA LANL 4/10/01 LA Canyon  
"Acid Canyon"  
"1-002"

Mr. John Young, Corrective Action Project Leader  
Permits Management Program  
NMED – Hazardous Waste Bureau  
2905 Rodeo Park Drive East  
Building 1  
Santa Fe, NM 87505-6303



## SUBJECT: SAMPLING NOTIFICATION

Dear Mr. Young:

The Los Alamos National Laboratory's Environmental Restoration Project is planning to perform sampling activities in Acid Canyon on or about August 27, 2001 through approximately September 21, 2001. This sampling is being performed as part of the planned South Fork Acid Canyon Interim Action. A copy of the Interim Action Plan will be delivered to you immediately after it is finalized (expected date August 17, 2001). This interim action is being performed to reduce potential dose from radionuclides present in Acid Canyon sediment.

After sediment has been removed from each area targeted for remediation, field alpha radiation measurements will be obtained from the bottom and sides of the excavation. The bottom will be measured at 1 meter intervals, and the sides at 15 centimeter depth increments. A subset of these measurement sites with the highest levels of alpha radiation will then be sampled from each area for gross alpha radiation measurements at a fixed laboratory to provide further confirmation that the cleanup goal of 280 pCi/g has been met. Approximately 50 of these samples is estimated.

Following remediation and receipt of confirmation data on gross alpha radiation, 12 samples will be collected from the base of the excavations for the full suite of Contaminants of Potential Concern that have been identified in the South Fork of Acid Canyon. The analyte suite to be used for these samples will consist of isotopic plutonium, gamma spectroscopy radionuclides, strontium-90, isotopic uranium, tritium, target analyte metals, pesticides, PCBs, semivolatile organic compounds, and volatile organic compounds. These full suite confirmation samples are expected to be collected during the last week of the Interim Action which is expected to be on or about September 14 through September 21, 2001.



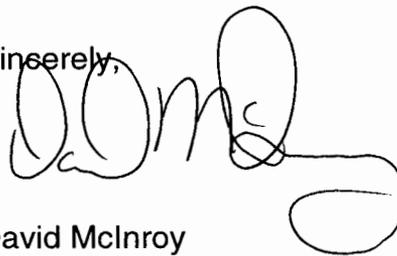
We appreciate your staff's efforts and cooperation in the Laboratory's attempt to accelerate this action.

Samples will be collected as shown in the table below.

Plan/Document	Location	Number of Samples	Sample Type	Analyses
Acid Canyon Sampling and Analysis Plan, Addendum to the Task/Site Work Plan for Los Alamos and Pueblo Canyons EM/ER: 99-335	Acid Canyon	About 50	Sediment (Fixed Lab)	Gross alpha
	Acid Canyon	12	Sediment (Confirmation, Fixed Lab)	isotopic plutonium, gamma spectroscopy radionuclides, strontium-90, isotopic uranium, tritium, target analyte metals, pesticides/PCBs, semivolatile organic compounds, volatile organic compounds
Interim Action Plan for the South Fork of Acid Canyon (presently in draft)				

If you have any questions or concerns please feel free to give me a call at (505) 667-0819.

Sincerely,



David McInroy  
Environmental Restoration Project

DM/RB/ev

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RPF, MS M707