

Los Alamos National Laboratory

UNIVERSITY OF CALIFORNIA



Environmental Restoration Project
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Date: July 2, 1998
Refer to: EM/ER:98-223



*Steph
John Young
Rfile*

Mr. Benito Garcia
NMED-HRMB
P.O. Box 26110
Santa Fe, NM 87502

SUBJECT: CANYON FOCUS AREA DRILLING ACTIVITIES AT R-25 IN TA-16 (FORMER OU 1082, FU 3)

Dear: Mr. Garcia:

Canyon Focus Area will begin drilling one borehole for installation of a deep (1400 ft) regional groundwater characterization well, R-25, on the southern rim of Canon de Valle, in Technical Area 16, 800 ft west of Material Disposal Area P. This activity is scheduled to begin on or about July 13, 1998, through November 6, 1998. This well is being installed as part of the Laboratory's Hydrogeologic Work Plan.

Samples will be collected as shown in the table enclosed. If you have any questions, please feel free to call me at 667-0819.

Sincerely,

for Roy Behn

David McInroy
Environmental Restoration Project

DM/RB/rfr

Enclosure: Drilling Activities at R-25, TA-16



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DRILLING ACTIVITIES AT R-25

Location	Number of Samples	Sample Type	Analyses
Well R-25	27	Core (Contaminants and Geo-chemical)	Gross Radiological Screening Radionuclides ^3H , ^{90}Sr , ^{241}Am , ^{234}U , ^{235}U , ^{236}U , ^{238}U , ^{238}Pu , and $^{239/240}\text{Pu}$ Inorganics (Full Suite plus additional) Anions VOCs (based on field screening) SVOCs (based on field screening)
Well R-25	13	Core (Geotechnical)	Selected core samples will be analyzed for some or all of the following: Particle size and texture (<2mm) In-Situ Water Content Porosity (<2mm) Particle Density (<2mm) Bulk Density Sat. Hydraulic Conductivity by Air and Water Water Retention Curve
Well R-25	27	Core (Hydrologic)	Stable Isotopes Unsaturated Flow Apparatus
Well R-25	16 (max.)	Core (Geologic)	Mineralogy (as needed) Modal Petrography (as needed) Chemistry (as needed)
Well R-25	5 (max.)	Groundwater	Major Cations and Anions (dissolved) Trace Elements and Metals (dissolved) Trace Elements and Metals (total) Nutrients-Nitrogen Species (dissolved) Radionuclides (dissolved) Radionuclides (total) Stable Isotopes Tritium Tritium (low level) Dissolved Organic Carbon Total Organic Carbon VOCs SVOCs Other Inorganics