



TA 49



Los Alamos National Laboratory/University of California
Risk Reduction & Environmental Stewardship (RRES)
Remediation Services (RS), MS M992
Los Alamos, New Mexico 87545
(505) 667-0808/FAX (505) 665-4747

National Nuclear Security Administration
Los Alamos Site Operations, MS A316
Environmental Restoration Program
Los Alamos, New Mexico 87544
(505) 667-7203/FAX (505) 665-4504

Date: July 8, 2004

Refer To: ER2004-0355

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: BOREHOLE ABANDONMENT NOTIFICATION

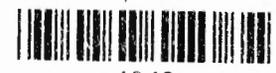
Dear Mr. Young:

Beginning the week of July 12, 2004, the Los Alamos National Laboratory (LANL) Risk Reduction and Environmental Stewardship–Remediation Services (RRES-RS) Project is planning to abandon eight boreholes at Technical Area (TA) 54, near Material Disposal Area (MDA) L, and three boreholes at TA 49, at MDA AB, following the procedures in the ASTM Standard Guide for Decommissioning of Ground Water Wells, Monitoring Devices, Boreholes, and Environmental Activities. The planned start date is July 14, 2004.

The 8 boreholes at TA-54 are located in Area G east of MDA L. These boreholes were installed in the 1993-1995 timeframes as part of the Phase I RFI (Table 1 and Figure 1). The 3 boreholes at TA-49 were installed in 1960 as part of a program to investigate the potential presence of perched water (Table 2 and Figure 2). These boreholes have been deemed unusable for characterization and/or monitoring.

The eight RCRA Facility Investigation (RFI) boreholes at TA-54 MDA L, and three historical (non-RFI) boreholes at TA-49 will be abandoned in accordance with LANL-ER-SOP-5.03, Rev. 2 (Monitoring Well and RFI Borehole Abandonment).

Borehole abandonment will require camera logging of each borehole to ensure that there are no obstructions and to confirm the depth of each borehole. Each borehole will be sealed using Hole Plug™, which will be tremmied in and hydrated continuously from the bottom of the hole to the bottom of the surface casing. Once each borehole has been sealed to the base of the surface casing, the surface casing will be removed by either over-reaming with a hollow-stem auger or by pulling out with casing jacks. After the casing has been removed, the remainder of each borehole will be grouted closed to the ground surface.



It is estimated that approximately 1300 cubic unit (cu) ft of grout material will be needed to fill the eight boreholes at TA-54, and 1200 cu ft of grout material will be needed to fill the 3 boreholes at TA-49. Information on the TA-54 boreholes abandoned is summarized in Table 1:

Table 1

Borehole ID	Year Installed	Depth (ft)	Declination (degrees from horizontal)	Adjacent Waste Disposal Unit	Current Status
54-1001	1993	315	63.5	None	Open Borehole
54-1002	1993	310	69	None	Open Borehole
54-1003	1993	299	Vertical	None	Open Borehole
54-1004	1993	340	Vertical	None	Open Borehole
54-1005	1993	291	69	None	Open Borehole
54-1006	1993	320	65	None	Open Borehole
54-1017	1995	159	Vertical	None	Open Borehole
54-1018	1995	328	Vertical	None	Open Borehole

Information on the TA-49 boreholes abandoned is summarized in Table 2:

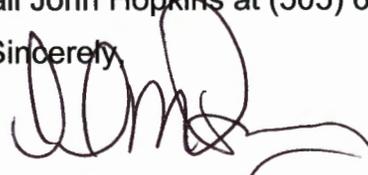
Table 2

Borehole ID	Year Installed	Depth (ft)	Diameter (in.)	Declination (degrees from horizontal)	Adjacent Waste Disposal Unit	Current Status
Alpha	1960	180	24	Vertical	None	Open Borehole
Beta	1960	189	24	Vertical	None	Open Borehole
Gamma A	1960	54	4	Vertical	None	Open Borehole

Figures 1 and 2 show the locations of the boreholes at TA-54 and TA-49, respectively.

If you have any questions or concerns, please call John Hopkins at (505) 667-9551.

Sincerely,



David McInroy, Deputy Project Director
Remediation Services
Los Alamos National Laboratory

DM/DG/JH/jr

Cy:

A. Dorries, RRES-ECR, MS M992
D. Farley, RRES-ECR, MS M992
J. Hopkins, RRES-ECR, MS M992
E. Rainey, RRES-ECR, MS M992
C. Rodriguez, RRES-ECR, MS M992
D. McInroy, RRES-RS, MS M992
B. Rich, ADO, MS A104
D. Gregory, LASO, MS A316
L. Woodworth, LASO, MS A316
J. Bearzi, NMED-HWB
C. Voorhees, NMED-OB
S. Yanicak, NMED-OB, MS J993
J. Kieling, NMED-HWB
L. King, EPA Region 6
RRES-RS File, MS M992
IM-5, MS A150
RPF, MS M707

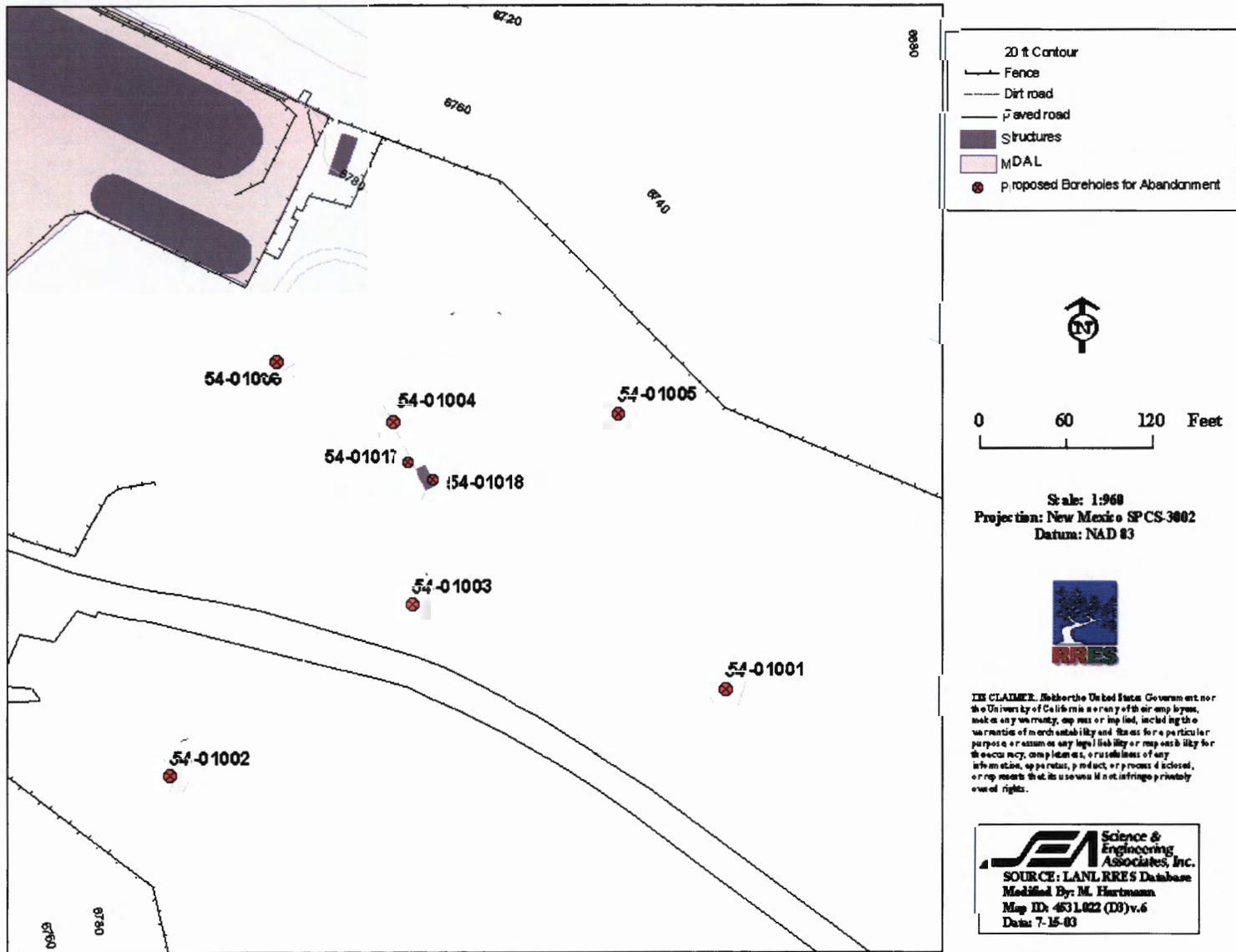


Figure 1. Borehole Abandonment Locations at Area G

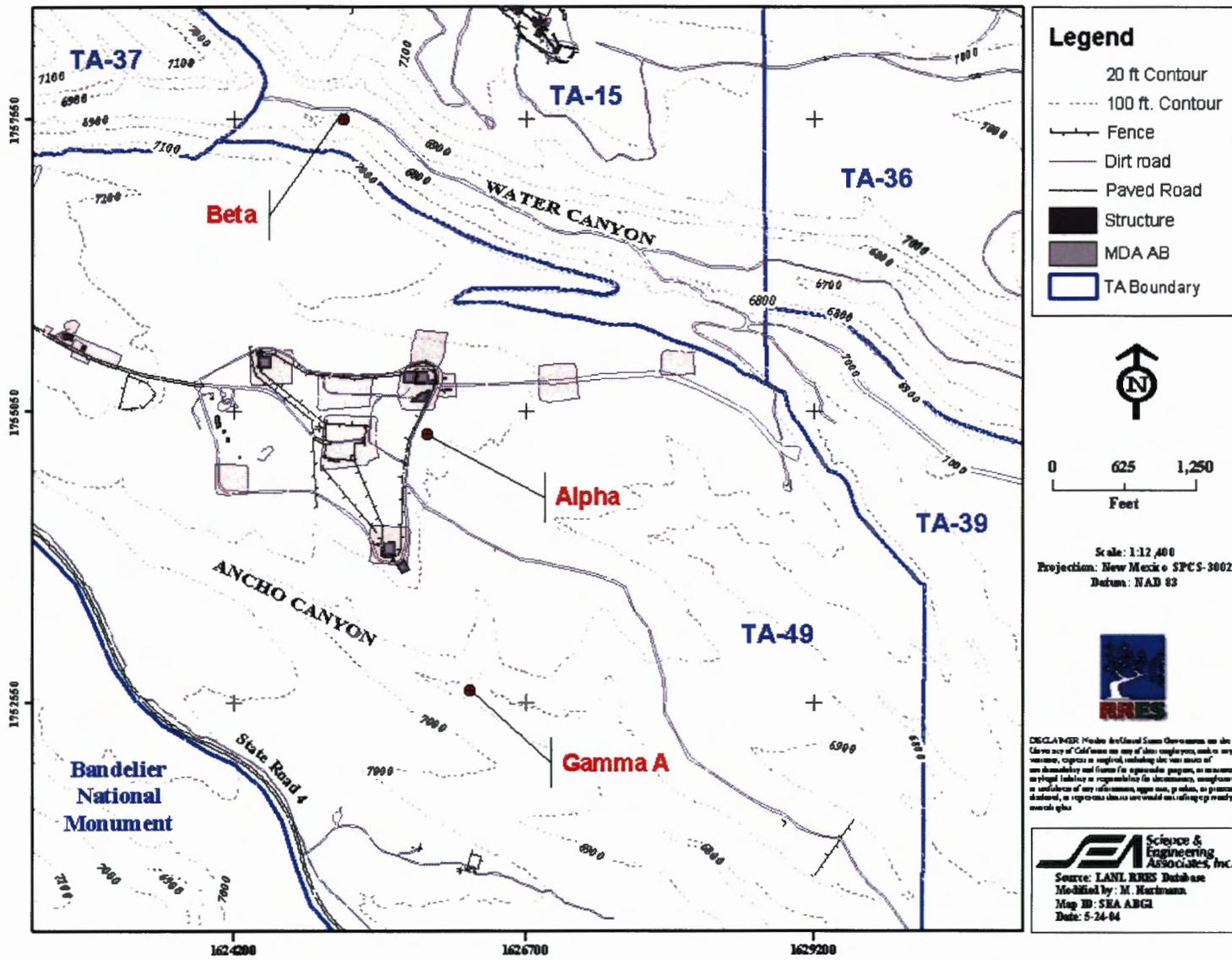


Figure 2. Borehole Abandonment Locations at TA-49