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RECEIVED
OCT 10 1997

DOE OVERSIGHT BUREAU

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Memorandum

TO: Roger Kennett, NMED, DOE OB ^{PK}
THROUGH: William Stone, NMED, DOE OB ^{WJS}
FROM: ^{WPM} William P. Moats, NMED, DOE OB
DATE: October 6, 1997
RE: DOE OB Background Investigation of Constituents of Concern in Soils, Kirtland Air Force Base Area

As you are aware, staff members of the DOE OB have collected soil samples from the Kirtland Air Force Base (KAFB) area, and have had them analyzed for various chemical and radiological constituents of concern (COC's). The analytical data obtained from these samples were used to support the DOE OB's position in negotiations with Sandia National Laboratories (SNL) and the U. S. Department of Energy. These negotiations ultimately led to the HRMB/NMED approval of background concentrations for much of the KAFB area. Thus, the data are of considerable importance to the NMED. I have decided to place these data and other associated information into the official file system for this office (under file number 3805). This is certainly a better place for this information than in one of my desk drawers.

Other information is documented below that may be helpful to anyone working with these data in the future:

1. Soil-sample locations are shown on two maps included in the file (the AutoCad™ drawing file names are BGLOC.DWG and BWGLOC2.DWG). Both maps were drawn by me.

2. The soil samples were collected and archived by Chris Hanlon-Meyer and John Hostak (formerly with the DOE OB).

a). Samples collected by Chris are replicates (splits) of samples collected by SNL during its soil-pit trenching project (done by SNL's Sitewide Hydrogeologic Characterization Project personnel). Only some of the archived samples were analyzed. The identification numbers for samples collected by Chris begin with the letters "SP" (for example SP28).

b). Samples collected by John come from sites sampled for his study on environmental radiation and radioactivity near Albuquerque, various "Offsite Sampling Locations" for the joint SNL/KAFB background study, and a few miscellaneous locations. Only some of the analytical results were used by the DOE OB in the negotiation process, as some of John's



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samples come from geologic units that may not be representative of the KAFB area (at least for chemical constituents). The identification numbers for samples collected by John begin with the letters "BG" (for example BG2).

3. Soil samples collected by John Hostak were analyzed by the Scientific Laboratory Division (SLD) of the New Mexico Department of Health. Those collected by Chris Hanlon-Meyer were analyzed by American Environmental Network, Inc.

4. Selected analytical results for the following 31 samples were used by the DOE OB in the negotiation process:

BG1	BG12	SP3	SP-32
BG2	BG13	SP8	
BG3	BG14	SP13	
BG4	BG15	SP16	
BG5	BG17	SP21	
BG6	BG18	SP22	
BG8	BG20	SP26	
BG9	BG21	SP28	
BG10	BG28	SP29	
BG11	SP2	SP31	

Note that correction reports (in file also) were submitted by SLD to the DOE OB for BG10 and BG19 (however, BG19 was not used in the negotiation process).

5. Selected DOE OB background data are included in Tables 1, 2, 5, and 6 of the DOE OB's review comments on the joint SNL/KAFB background study (Tables 3 and 4 are about ground water, not soil). Draft data were provided to the U. S. Department of Energy by Dr. William Stone in his memorandum of April 8, 1997.

6. Copies of the analytical results for the background samples are in the Santa Fe office of the DOE OB. If they are not in the official files, then Scott Anderson may have them in his possession.

cc: Bill McDonald, NMED, DOE OB
David Beach, NMED, DOE OB
Stephanie Kruse, NMED, HRMB
John Parker, NMED, Chief, DOE OB
File 3805