



State of New Mexico
ENVIRONMENT DEPARTMENT
DOE OVERSIGHT BUREAU
 2044 A Galisteo Street
 P.O. Box 26110
 Santa Fe, New Mexico 87502-6110
 Telephone (505) 827-1536 Fax (505) 827-1545



GARY JOHNSON
 GOVERNOR

PETER MAGGIORE
 SECRETARY

General

September 10, 1999

Joe Vozella, DOE AIP POC
 Los Alamos Area Office, MS A316
 U.S. Department of Energy
 Los Alamos, New Mexico 87544

Subject: LANL comments on draft report, NMED/LANL 1996 Soil Results: Data Evaluation and Statistical Comparison

Dear Mr. Vozella:

We have discussed LANL comments and suggestions with Philip Fresquez and Mary Mullen of ESH-20, Ecology Group regarding our report the "NMED/LANL 1996 Soil Results: Data Evaluation and Statistical Comparison." Their recommendations helped in our understanding of the analytical measurements made by the Laboratory and the statistical comparison methods used in our evaluation.

Mary Mullen's major contention was that the data for the summary comparison must be normalized for each analyte (mean = 0, std dev = 1) before the parametric statistical test can be done. We normalized that data and re-tested the data groups. Those changes were incorporated into the report.

We appreciate LANL's recommendations and suggestions which helped to improve the report. Please contact me or David Englert (827-1536) if you have any questions.

Sincerely,

Stephen Yanicak

Steve Yanicak, LANL POC
 Department of Energy Oversight Bureau

SMY:de

cc: Philip Fresquez, LANL, ESH-20, MS-M887
 Steve Rae, LANL, Group Leader, ESH-18, MS-K497
 John Parker, NMED, Chief, DOE OB

RECEIVED
 SEP 13 1999
 DOE OVERSIGHT BUREAU



13296

LANL/ES/Soil

Los Alamos National Laboratory

ESH-20, Ecology Group

P.O. Box 1663, Mail Stop M887
Los Alamos, New Mexico 87545
(505) 667-0815 / FAX: (505) 667-0731

Date: September 3, 1999
Refer to: ESH-20/Ecol-99-0287

Steve Yanicak
Environment Department
Department of Energy Oversight Bureau
P.O. Box 1663, MS J993
Los Alamos, NM 87545

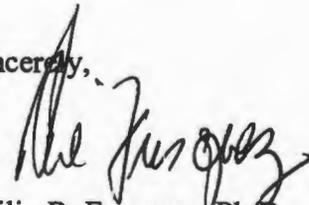
Subject: Review of DOE Oversight Bureau "NMED/LANL 1996 Soil Results: Data Evaluation and Statistical Comparison"

Dear Mr. Yanicak:

Thank you for the opportunity to review the Department of Energy (DOE) Oversight Bureau (OB) report entitled, "NMED/LANL 1996 Soil Results: Data Evaluation and Statistical Comparison," by David Englert. In general, the report reads well and my comments can be found directly in the text. The report was also reviewed by our statistician, Mary Mullen, and her comments can be found directly in the text; her major contention, however, was that the data for the summary comparison must be normalized for each analyte first (mean=0, std dev=1) before the statistical test can be run.

Again, thanks for the opportunity for review. Please call me at (505) 667-0815, or e-mail at fresquezp@lanl.gov, if you wish clarification of my comments.

Sincerely,



Philip R. Fresquez, Ph.D.
Environmental Scientist/Radioecologist
Ecology Group

Enclosures: a/s

PRF:rm

Cy: John Parker, NMED, DOE OB, MS J993
Tim Michael, NMED, DOE OB, MS J993
Joe Vozella, DOE, AIP POC, MS A316

RECEIVED
SEP 13 1999
DOE OVERSIGHT BUREAU