



State of New Mexico
ENVIRONMENT DEPARTMENT
DOE OVERSIGHT BUREAU
 P.O. Box 1663, MS/J-993
 Los Alamos, New Mexico 87545



GARY JOHNSON
 GOVERNOR

MARK E. WEIDLER
 SECRETARY

February 25, 1998

Mat Johansen, AIP POC
 U.S. Department of Energy
 Los Alamos Area Office
 528 35th Street, MS A316
 Los Alamos, NM 87544

RE: Recommendations Concerning TW-8

Dear Mr. Johansen:

DOE OB was contacted by ESH-18 personnel on February 24, 1998, for their recommendations concerning upcoming activities (pump placement, sampling, etc.) at regional aquifer monitoring well TW-8 located in Mortandad Canyon. The following are offered in the spirit of technical recommendations, and do not represent the regulatory position of the New Mexico Environment Department.

- 1) Place the pump 5-10 ft below the water table; assuming the water level is at a depth of 995 ft, the pump would be placed at a depth of 1000-1005 ft.
- 2) Purge the well at a rate that does not exceed the recharge to the well, and be sure to measure flow during the purge event.
- 3) Measure standard field parameters (water level, pH, conductance, etc.) during the purge event (DOE OB will analyze the purge-water samples for nitrate in the field during specific time intervals).
- 4) Collect laboratory samples after field parameters have stabilized (this should minimize total purge-water volume).
- 5) Use of packers probably wouldn't help because of mixing no doubt occurring in the annulus due to the vertical gradient set up along the long screened interval.

We appreciate the opportunity to comment on these activities, and DOE OB personnel are available to discuss these recommendations with LANL ER/ES personnel. Please contact Michael Dale at 672-0449 or me at 672-0448 if you have any questions concerning this matter.

Sincerely,

Steve Yanicak, LANL POC
 Department of Energy Oversight Bureau



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 TW-8

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cc:

J. Parker, NMED, Chief, DOE Oversight Bureau
B. Garcia, NMED, Chief, HRMB
S. Dinwiddie, NMED, Program Manager, HRMB
P. Bustamante, NMED, GWQB
T. Taylor, DOE LAAO, Program Manager, EM/ER, MS A316
B. Koch, DOE LAAO, MS A316
J. Canepa, LANL, ER Project Manager, MS M992
A. Pratt, LANL, ER FPL, MS J521
S. Rae, LANL, Group Leader, ESH-18, MS K497
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