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RON CURRY
Secretary

SARAH COTTRELL
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

August 11, 2010

George J. Rael
Env. Projects Office, Federal Project Director
Los Alamos Site Office, DOE, NNSA
3747 West Jemez Road
Los Alamos, NM 87544

Michael J. Graham
Associate Director Environmental Programs
Los Alamos National Security, LLC
P.O. Box 1663, MS M991
Los Alamos, NM 87545

**RE: APPROVAL WITH MODIFICATION
COMPLETION REPORT FOR INTERMEDIATE AQUIFER WELL PCI-2
LOS ALAMOS NATIONAL LABORATORY
EPA ID #NM0890010515
HWB-LANL-09-074**

Dear Messrs. Rael and Graham:

The New Mexico Environment Department (NMED) is in receipt of the Los Alamos National Security, L.L.C. (LANS) and U.S. Department of Energy's (DOE) (the Permittees) document entitled *Completion Report for Intermediate Aquifer Well PCI-2* (Report) dated September 2009 and referenced by EP2009-0423. NMED hereby approves the Report with the following comments.

- 1) **Section 4.2, page 5:** The statement "[t]hese groundwater analytical results will be reported in the annual update to the Interim Facility-Wide Groundwater Monitoring Plan" is incorrect. The statement should read "[t]hese groundwater analytical results will be reported in the Periodic Monitoring Report for Pajarito Watershed."
- 2) **Table 4.2-1:** The table caption reads *Summary of Groundwater-Screening Samples Collected during Drilling, Well Development, and Aquifer Testing of Monitoring Well PCI-2*; however, aquifer testing was not performed at well PCI-2. Therefore, the caption



should read *Summary of Groundwater-Screening Samples Collected during Drilling and Well Development of Monitoring Well PCI-2*.

- 3) **Appendix B, Section B-1.3.1, page B-2:** The Permittees provide selected tritium concentrations in groundwater screening samples from PCI-2, but a table with complete analytical results for this constituent is not included in the Report. The Permittees must submit to NMED, in writing and in an electronic format, the complete analytical results for tritium in groundwater screening samples from PCI-2 no later than **August 31, 2010**.
- 4) **Appendix B, Section B-1.3.2, page B-3:** The Permittees incorrectly converted concentrations of iron from mg/L and ppm to µg/L and ppb, and used wrong concentration units for manganese. The first two sentences of the first full paragraph on page B-3 should read “[d]uring development conducted at well PCI-2, dissolved concentrations of iron ranged from 0.018 to 0.092 ppm (0.018 to 0.092 mg/L, 18 to 92 µg/L, or 18 to 92 ppb) when ICPOES was used . . .” and “[d]issolved concentrations of manganese ranged from 40 to 62 ppb . . .”
- 5) **Appendix B, Section B-1.3.2, page B-3:** The second sentence of the first full paragraph is incomplete – its middle section appears to be missing.
- 6) **Appendix B, Section B-1.3.2, page B-3:** In the eighth sentence of the first full paragraph, the Permittees erroneously refer to well TA-53-1i instead of PCI-2.

No revision of the Report is necessary; however, the results of tritium analyses must be submitted by the date specified in Item 3 above.

Should you have any questions or comments, please contact Jerzy Kulis at (505) 476-6039.

Sincerely,



James P. Bearzi
Chief
Hazardous Waste Bureau

BRZ:jk

cc: D. Cobrain, NMED HWB
K. Roberts, NMED HWB
M. Dale, NMED HWB
J. Kulis, NMED HWB
T. Skibitski, NMED DOE OB
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Messrs. Rael and Graham

August 11, 2010

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file: Reading and LANL Groundwater General