

Environmental Programs
P.O. Box 1663, MS M991
Los Alamos, New Mexico 87545
(505) 606-2337/FAX (505) 665-1812





National Nuclear Security Administration Los Alamos Site Office, MS A316 Environmental Restoration Program Los Alamos, New Mexico 87544 (505) 667-4255/FAX (505) 606-2132

Date: February 27, 2009 Refer To: EP2009-0106

James P. Bearzi, Bureau Chief Hazardous Waste Bureau New Mexico Environment Department 2905 Rodeo Park Drive East, Building 1 Santa Fe, NM 87505-6303

Subject: Submittal of the Drilling Work Plan for Intermediate Aquifer Well PCI-2

Dear Mr. Bearzi:

Enclosed please find two hard copies with electronic files of the Drilling Work Plan for Intermediate Aquifer Well PCI-2. This work plan is a revision to the plan submitted on November 13, 2007, and subsequently approved by the New Mexico Environment Department NMED) on December 7, 2007. The revision to the work plan reflects recent discussions with your staff to move PCI-2 from its originally planned location in lower Pajarito Canyon to the location where perched-intermediate monitoring well R-17i was planned. In the original work plan, drilling PCI-2 was considered contingent on the observations of perched-intermediate groundwater from wells in the vicinity, especially PCI-1. The proposed change in location is based on the original objective of PCI-2 (to characterize perched-intermediate groundwater with respect to potential sources upgradient in Pajarito Canyon) having been accomplished in part with the installation of a perched-intermediate screen at 650–670 ft below ground surface in well R-40. Additionally, a review of existing video and geophysical logs and driller's observations from drilling at R-39, R-32, and R-20 (east of R-40) suggest a low probability of encountering perched-intermediate groundwater at the original planned location.

The new location of PCI-2 will accomplish the objectives of R-17i, which is a requirement of NMED's Notice of Disapproval on the Pajarito Canyon Investigation Report, dated November 21, 2008. As described in the attached drilling work plan, drilling activities will include a separate core hole to characterize potential tritium contamination in pore water of the upper vadose zone beneath Pajarito Canyon. Timing of installation of PCI-2 at the new location will allow inclusion of key geologic and hydrologic information in the revised Pajarito Canyon investigation report scheduled for submittal to NMED on August 31, 2009, and should also provide time to obtain a single round of analytical data.

Demonstration of completion of monitoring well PCI-2 is a stipulated-penalty requirement for fiscal year 2009, as set in NMED's letter dated July 15, 2008. The Laboratory will meet that requirement by installing PCI-2 at the new location by the required date of May 30, 2009.

If you have any questions, please contact Mark Everett at (505) 667-5931 (meverett@lanl.gov) or Suzy Schulman at (505) 606-1962 (sschulman@doeal.gov).

Sincerely,

Michael J. Graham, Associate Director

Environmental Programs

Los Alamos National Laboratory

Sincerely,

David R. Gregory, Project Director

Environmental Operations

Los Alamos Site Office

MG/DG/PH/DK/ME:sm

Enclosures: Two hard copies with electronic files – Drilling Work Plan for Intermediate Aquifer Well PCI-2 (LA-UR-09-1014)

Cy: (w/enc.)

Neil Weber, San Ildefonso Pueblo Suzy Schulman, DOE-LASO, MS A316 Mark Everett, EP-LWSP, MS M992 RPF, MS M707 (with two CDs) Public Reading Room, MS M992

Cy: (Letter and CD only)

Laurie King, EPA Region 6, Dallas, TX Steve Yanicak, NMED-OB, White Rock, NM Dave Broxton, EES-16, MS T003 Danny Katzman, EP-LWSP, MS M992 Kristine Smeltz, WES-DO, MS M992 EP-LWSP File, MS M992

Cy: (w/o enc.)

Tom Skibitski, NMED-OB, Santa Fe, NM Keyana DeAguero, DOE-LASO (date-stamped letter emailed) Michael J. Graham, ADEP, MS M991 Alison M. Dorries, WES-DO, MS M992 Paul Huber, EP-LWSP, MS M992 IRM-RMMSO, MS A150 (date-stamped letter emailed)