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JUL 2008
NMED Hazardous Waste Bureau

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: July 31, 2008
Refer To: EP2008-0381

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 Response to the Direction for Further Action at Well R-20 Rehabilitation and Conversion Summary Report and Revision 1 of the Summary Report

References: 1. Letter, Bearzi to Messrs. Gregory and McInroy, dated February 11, 2008
2. Letter, Messrs. Gregory and McInroy to Bearzi, dated March 1, 2008

Dear Mr. Bearzi:

On February 11, 2008, the New Mexico Environment Department (NMED) provided a direction for further rehabilitation action at well R-20 (reference 1). The letter directed the following actions: (1) analysis of increased iron concentrations using geochemical models, (2) rehabilitation using an oxygen release compound, and (3) installation of the sampling system. It required that the rehabilitation approach (comment 2) be proposed by March 1, 2008, and a revised report on the modeling and rehabilitation results by July 31, 2008.

The Los Alamos National Laboratory (LANL) responded in a letter on March 1 (reference 2) and followed up in a meeting with NMED on April 15, 2008. A verbal agreement was reached between NMED and LANL at the April 15 meeting that use of an oxygen release compound to improve R-20 would be unnecessary, based on analytical results from additional sample collection and geochemical modeling.

The enclosed report, "Well R-20 Conversion and Rehabilitation Summary Report, Revision 1," documents the additional sampling, geochemical modeling, and installation of the permanent sampling system. These actions are also addressed in the enclosed response to direction for further action at well R-20 and the enclosed crosswalk that indicates where NMED's comments on the original report are addressed in the revision.

If you have any questions, please contact Ardyth Simmons at (505) 665-3935 (asimmons@lanl.gov) or David Gregory at (505) 667-5808 (dgregory@doeal.gov).

Sincerely,

Susan G. Stiger, Associate Director
Environmental Programs
Los Alamos National Laboratory

Sincerely,

David R. Gregory, Project Director
Environmental Operations
Los Alamos Site Office

SS/DG/PH/AS:sm

Enclosures: 1) Two hard copies with electronic files – Response to the Direction for Further Action at Well R-20 Rehabilitation and Conversion Summary Report (EP2008-0381)
2) Two hard copies with electronic files – Well R-20 Rehabilitation and Conversion Summary Report, Revision 1 (EP2008-0301)
3) Cross-reference table of NMED comments

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Tom Skibitski, NMED-OB, Santa Fe, NM
Alison Bennett, DOE-LASO (date-stamped copy emailed)
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Paul Huber, EP-LWSP, MS M992
Alison M. Dorries, EP-WES, MS M992
IRM-RMMSO, MS A150 (date-stamped copy emailed)

Cross-Reference of NMED Comments and Revisions to the Well R-20 Rehabilitation and Conversion Summary Report, Revision 1

NMED Comment No.	Well R-20 Rehabilitation and Conversion Summary Report	Page(s) in January 2008 Report	Page(s) in Revised July 2008 Report	Nature of Well R-20 Rehabilitation and Conversion Summary Report Revision
1	Conclusion	pp. 14–15	pp. 21–22	Geochemical modeling results agreed with analytical results, that is, with the absence of ferrous iron and the absence of reducing conditions at R-20.
2	Related to Figures 2.6-1, 2.6-2, 2.6-6, and Tables B-1a and B-1b	pp. 18, 19, 21, B-1–B-8	n/a*	No change. Comment relates to use of an oxygen release compound at R-20. A meeting with NMED on April 15, 2008, determined that this procedure was not necessary.
3	Conclusion	p. 15	p. 6	Provided text in section 2.6 describing installation of the permanent sampling system

*n/a = Not applicable.