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*Date:* November 20, 2007  
*Refer To:* EP2007-0728

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: Request to Revise Order of Rehabilitation of Three Wells**

Reference: Ltr, Messrs. Gregory and McInroy to Bearzi, dated September 7, 2007

Dear Mr. Bearzi:

The referenced letter provided a schedule for well rehabilitation that the U.S. Department of Energy (DOE) and Los Alamos National Laboratory (the Laboratory) have been implementing.

As a follow-up to discussions with your staff on November 5, 2002, we propose a change in the order of three wells slated for rehabilitation from January through April of 2008. We discussed with your staff concerns about proceeding at R-22 before addressing lingering technical concerns of cross-communication between screens at that well. Therefore, we propose that after R-20 we rehabilitate R-33, then R-14, and then R-22, if the decision is made to proceed according to plan with R-22 (see attached table). Changing the order of wells will provide time for more discussion of R-22 but would not affect the overall schedule.

We will be communicating with your staff regarding R-22 alternatives in the near future. In the meantime, we request your approval for the change in order of rehabilitation wells.

If you have questions, please contact Ardyth Simmons at (505) 665-3935 (asimmons@lanl.gov) or Mat Johansen at (505) 665-5046 (mjohansen@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



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Cy: (w/enc.)

Laurie King, EPA Region 6, Dallas, TX  
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**Table 1  
Well Conversion, Rehabilitation, and Replacement Actions**

Well No.	Screens to Retain	Screen to Abandon	Development Techniques Applied	Proposed Sampling System	Document Stipulating Rehabilitation or Replacement	Document Describing the Activities	Proposed Schedule for Rehabilitation or Replacement	Proposed Schedule for Completion Report
<b>Rehabilitation and Conversion Wells</b>								
R-12	#1 & #2	#3	Jetting, isolation pumping (#1 only)	Baski	NMED ltr to Messrs. Gregory and McInroy, dated April 27, 2007 (NMED 2007, 095832) and NMED Approval with Direction of Mortandad Canyon Groundwater Monitoring Well Network Evaluation (NMED 2007, 098120)	Well Rehabilitation Pilot Study Executive Plan (LANL 2006, 092737) and LANL 2007 Pilot Well Rehabilitation Study Summary Report (LANL 2007, 095889 )	10/30/07	11/30/07
R-14	#1	#2	Surge/bail; jetting/pumping; isolation pumping/overpumping	Submersible pump	NMED Approval with Direction of Mortandad Canyon Groundwater Monitoring Well Network Evaluation (NMED 2007, 098120)	Work Plan for R-14 Rehabilitation	2/29/08	3/31/08

Well No.	Screens to Retain	Screen to Abandon	Development Techniques Applied	Proposed Sampling System	Document Stipulating Rehabilitation or Replacement	Document Describing the Activities	Proposed Schedule for Rehabilitation or Replacement	Proposed Schedule for Completion Report
R-16	All	None	No further action	Westbay	n/a*	Well Rehabilitation Pilot Study Executive Plan (LANL 2006, 092737) and LANL 2007 Pilot Well Rehabilitation Study Summary Report (LANL 2007, 095889)	Fieldwork completed; data assessment ongoing	Fieldwork completed; data assessment ongoing
R-20	#1 and #2	#3	Surge/bail; jetting/pumping; isolation pumping/overpumping	Baski	NMED ltr to Messrs. Gregory and McInroy, dated April 5, 2007 (NMED 2007, 095394)	Well Rehabilitation Pilot Study Executive Plan (LANL 2006, 092737) and LANL 2007 Pilot Well Rehabilitation Study Summary Report (LANL 2007, 095889)	12/07/07	1/07/08
R-22	#2 and #3	#1, #4, and #5	Surge/bail; jetting/pumping; isolation pumping/overpumping	Baski	NMED ltr to Messrs. Gregory and McInroy, dated April 5, 2007 (095394)	Work Plan for R-22 Rehabilitation	3/31/08	4/30/08

Well No.	Screens to Retain	Screen to Abandon	Development Techniques Applied	Proposed Sampling System	Document Stipulating Rehabilitation or Replacement	Document Describing the Activities	Proposed Schedule for Rehabilitation or Replacement	Proposed Schedule for Completion Report
R-25 <sup>b,c</sup>	#4 (?), #6, #7, and #8	#1, #2, #3, #5 (?), #9	No additional development	Westbay	<p>NMED letter to Messrs. Gregory and McInroy, dated April 5, 2007 (NMED 2007, 095394) superseded by Evaluation of the Suitability of Wells Near Technical Area 16 for Monitoring Contaminant Releases from Consolidated Unit 16-021(c)-00 (LANL 2007, 095787) and Notice of Disapproval of the Evaluation of the Suitability of Wells Near Technical Area 16 for Monitoring Contaminant Releases from Consolidated Unit 16-021(c)-99 (NMED 2007, 097874)</p>	Drilling Work Plan for intermediate Aquifer Well R-25b (LANL 2007, 0998121)	<sup>b</sup> See below	<sup>b</sup> See below

Well No.	Screens to Retain	Screen to Abandon	Development Techniques Applied	Proposed Sampling System	Document Stipulating Rehabilitation or Replacement	Document Describing the Activities	Proposed Schedule for Rehabilitation or Replacement	Proposed Schedule for Completion Report
R-32	#1	#2 and #3	Surge/bail; jetting/pumping; isolation pumping/overpumping	Submersible pump	NMED letter to Messrs. Gregory and McInroy, dated April 5, 2007 (NMED 2007, 095394)	Work Plan for R-32 Rehabilitation	9/30/07	10/31/07
R-33	#1 and #2	n/a	Surge/bail; jetting/pumping; isolation pumping/overpumping	Baski (to replace Barcad)	NMED Approval with Direction of Mortandad Canyon Groundwater Monitoring Well Network Evaluation (NMED 2007, 098120)	Work Plan for R-33 Rehabilitation	1/31/08	2/28//08

Well No.	Screens to Retain	Screen to Abandon	Development Techniques Applied	Proposed Sampling System	Document Stipulating Rehabilitation or Replacement	Document Describing the Activities	Proposed Schedule for Rehabilitation or Replacement	Proposed Schedule for Completion Report
CdV-R-37-2	#2, # 3 & # 4	n/a	Surge/bail; jetting/pumping; isolation pumping/overpumping (only screen #2 will be rehabilitated)	Westbay	Evaluation of the Suitability of Wells Near Technical Area 16 for Monitoring Contaminant Releases from Consolidated Unit 16-021(c)-99 (LANL 2007, 095787) and Notice of Disapproval of the Evaluation of the Suitability of Wells Near Technical Area 16 for Monitoring Contaminant Releases from Consolidated Unit 16-021(c)-99 (NMED 2007, 097874)	Workplan for CdV-R-37-2 Rehabilitation (to be submitted following approval of the Technical Area 16 well evaluation report)	9/30/08 (contingent upon funding)	10/31/08
<b>Replacement Wells</b>								
R-36	Replaces R-12 Screen #3	n/a	n/a – new single-screen well	Submersible pump	NMED letter to Messrs. Gregory and McInroy, dated August 23, 2007, Approval of Drilling Work Plan for Regional Aquifer Well R-36 (NMED 2007, 098123)	Drilling Work Plan for Regional Aquifer Well R-36 (LANL 2007, 098122)	12/8/07	2/15/08

Well No.	Screens to Retain	Screen to Abandon	Development Techniques Applied	Proposed Sampling System	Document Stipulating Rehabilitation or Replacement	Document Describing the Activities	Proposed Schedule for Rehabilitation or Replacement	Proposed Schedule for Completion Report
R-25b	Replaces R-25 Screens #1 and #3		n/a – new well or 2 wells, not yet determined	Baski if dual-screen; submersible pumps if 2 single-screen wells	NMED ltr to Messrs. Gregory and McInroy, dated April 5, 2007 superseded by Evaluation of the Suitability of Wells Near Technical Area 16 for Monitoring Contaminant Releases from Consolidated Unit 16-021(c)-99 (LANL 2007, 095787) and Notice of Disapproval of the Evaluation of the Suitability of Wells Near Technical Area 16 for Monitoring Contaminant Releases from Consolidated Unit 16-021(c)-99 (NMED 2007, 097874)	Drilling Work Plan for Intermediate Aquifer Well R-25b (LANL 2007, 098121)	4/30/08	9/30/08

Well No.	Screens to Retain	Screen to Abandon	Development Techniques Applied	Proposed Sampling System	Document Stipulating Rehabilitation or Replacement	Document Describing the Activities	Proposed Schedule for Rehabilitation or Replacement	Proposed Schedule for Completion Report
CdV-16-3(i)	n/a	n/a	n/a	Submersible pump	Evaluation of the Suitability of Wells Near Technical Area 16 for Monitoring Contaminant Releases from Consolidated Unit 16-021(c)-99 (LANL 2007, 095787) and Notice of Disapproval of the Evaluation of the Suitability of Wells Near Technical Area 16 for Monitoring Contaminant Releases from Consolidated Unit 16-021(c)-99 (NMED 2007, 097874)	Workplan for CdV-16-3(i)	Contingent upon fiscal year 2008 funding	Contingent upon fiscal year 2008 funding

Note: This table is a revision of Table 1 in a letter to Bearzi from Messrs. McInroy and Gregory, dated September 7, 2007

<sup>a</sup> n/a = Not applicable

<sup>b</sup> See also below under "Replacement Wells"

<sup>c</sup> In this multiple-screen well, the screens to be abandoned will not be plugged but also will not be sampled

? = pending NMED approval