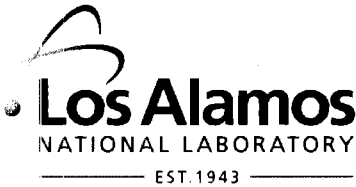
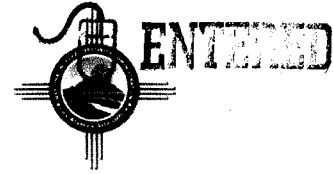


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MAY 20 2014



Environmental Programs
P.O. Box 1663, MS K788
Los Alamos, New Mexico 87545
(505) 606-2337

**NMED
Hazardous Waste Bureau**

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

Date: MAY 20 2014

Refer To: EP2014-0206

Tom Blaine
Environmental Health Division
New Mexico Environment Department
1190 St. Francis Dr. Room N4050
P.O. Box 5469
Santa Fe, NM 87505

Subject: Summary of April 29, 2014, Meeting with the New Mexico Environment Department

Dear Mr. Blaine:

We would like to thank you and your staff for participating in what proved to be a very productive meeting last week to ensure that the chromium plume in Mortandad Canyon is mitigated and the public and the environment are protected. There were many collaborative and excellent take-aways from that meeting, including the following:

1. Los Alamos National Laboratory (the Laboratory) will continue discussions with Los Alamos County on matters related to the Laboratory's chromium remediation efforts. Key discussion points include
 - Los Alamos County's pumping program and potential implications on plume migration behavior and
 - The Laboratory's commitment to maintaining quarterly monitoring of water-supply wells surrounding the chromium and perchlorate plumes.
2. The Laboratory will continue dialogue with the Pueblo de San Ildefonso on drilling of the monitoring well on their land as directed by the New Mexico Environment Department (NMED).
3. The Laboratory will proceed with the set of actions that are aimed at achieving the goal of reducing the concentrations of chromium at the Laboratory boundary within 2 to 3 years. The actions proposed to achieve the objectives will be included in a work plan submitted to NMED on or before July 30, 2014. The work plan will be considered either a supplement to the existing interim measures work plan or some other administrative document as agreed to by NMED.



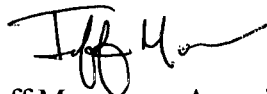
Key actions that will be conducted by the Laboratory include the following:

- Installation and testing of the first plume-capture pumping well (CrEX-1). Installation will begin in summer 2014, and continuous pumping is expected to occur from August to November 2014. Water will be dispositioned under a Temporary Permission from the NMED Groundwater Bureau. This action is being implemented under an existing work plan.
 - Installation and testing of a second plume-capture well in early 2015. The need, location, and design of the well will take into account data from pumping at CrEX-1 in 2014.
 - Installation of a mass-removal well in the centroid to test feasibility and performance of longer-term mass removal actions.
 - Drilling of several core holes to obtain key information to guide remedial strategies. As part of the negotiations with NMED, the Laboratory has agreed to add up to three core holes to the four already planned. These core holes are scheduled to be drilled in 2014.
 - Installation and operation of two groundwater injection wells in 2015.
 - Installation of a pipeline for treated groundwater to an existing permitted outfall that will discharge into Sandia Canyon.
 - Continued studies to screen technologies that are expected to be part of an integrated strategy for remediation. Additionally, it was acknowledged that the New Mexico Water Quality Control Commission groundwater standard for chromium may be problematic for several reasons (e.g., length of time to achieve). Therefore, it was suggested that the Laboratory would have an opportunity to propose final remediation objectives (e.g., appropriate cleanup levels) in the corrective measures evaluation (CME).
4. The actions described above will form the basis for a CME in mid- to late 2016. The CME will include a recommendation for the set of remedial actions necessary to achieve the final remediation goal for the chromium plume.

The Laboratory will continue to aggressively pursue all the necessary permits required to successfully meet the near-term and longer-term objectives of the project. Support from the NMED to obtain these permits will be greatly appreciated.

If you have any questions, please contact Dave McInroy at (505) 667-0819 (mcinroy@lanl.gov) or David Rhodes at (505) 665-5325 (david.rhodes@nnsa.doe.gov).

Sincerely,



Jeff Mousseau, Associate Director
Environmental Programs
Los Alamos National Laboratory

Sincerely,



Peter Maggiore, Assistant Manager
Environmental Projects Office
Los Alamos Field Office

JM/PM/DM:sm

Cy: John Kieling, NMED-HWB (date-stamped letter emailed)
David Cobrain, NMED-HWB (date-stamped letter emailed)
Michael Dale, NMED-DOE OB (date-stamped letter emailed)
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Danny Katzman, EP-CAP (date-stamped letter emailed)
Stephani Swickley, EP-CAP (date-stamped letter emailed)
Katie Higgins, EP-REG (date-stamped letter emailed)
Tori George, EP-REG (date-stamped letter emailed)
Craig Douglass, EP-CAP (date-stamped letter emailed)
Dave McInroy, EP-CAP (date-stamped letter emailed)
Jeff Mousseau, ADEP (date-stamped letter emailed)
PRS Database with ER ID
RPF (electronic copy)