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JOHN A. SANCHEZ
Lieutenant Governor

**NEW MEXICO
ENVIRONMENT DEPARTMENT**

Hazardous Waste Bureau

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Deputy Secretary

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EP2013-5088

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

April 30, 2013

Peter Maggiore
Assistant Manager, Env. Projects Office
Los Alamos Site Office, DOE
3747 West Jemez Rd, MS A316
Los Alamos, NM 87544

Jeffrey D. Mousseau
Associate Director, Environmental Programs
Los Alamos National Security, L.L.C.
P.O. Box 1663, MS M991
Los Alamos, NM 87545

**RE: APPROVAL WITH MODIFICATIONS
INTERIM MEASURES WORK PLAN FOR SOURCE REMOVAL TESTING AT
WELL CdV-16-4ip
LOS ALAMOS NATIONAL LABORATORY
EPA ID#NM0890010515
HWB-LANL-13-012**

Dear Messrs. Maggiore and Mousseau:

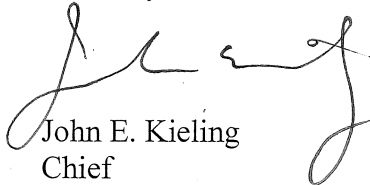
The New Mexico Environment Department (NMED) is in receipt of the United States Department of Energy (DOE) and the Los Alamos National Security, L.L.C.'s (collectively, the Permittees) document entitled *Interim Measures Work Plan for Source Removal Testing at Well CdV-16-4ip* (Plan) dated March 2013 and referenced by EP2013-0050. The Plan was received on March 22, 2013. NMED has reviewed the Plan and hereby issues this approval with the following modifications.

The Permittees must perform source removal testing at CdV-16-4ip for a minimum of 45 days and a maximum of 60 days, depending on the degree of water-level decline, contaminant concentration trends, and geochemical changes. The Permittees must collect pre-treatment water-quality samples for high explosive compounds (HE) once per day in order to evaluate changes in contaminant concentrations throughout the duration of pumping. Every fifth day, one pre-treatment sample must be collected and also analyzed for volatile organic compounds (VOCs), dissolved trace and major metals, and major ions such as nitrate. The first samples for both HE and other constituents (VOCs, metals, and major ions) must be collected on the first day of pumping, following evacuation of the discharge pipe. At the end of pumping, one water-quality sample must be collected and submitted for full-suite analyses (e.g., HE, VOCs, metals, anions, low-level tritium). Field parameters including dissolved oxygen, oxidation-reduction potential, pH, specific conductance, temperature, turbidity, and water-levels must be measured and documented during day-time hours on an hourly basis. In addition, continuous water-level monitoring at all surrounding intermediate wells must be conducted during the duration of the test. Post-treatment water-quality samples must be collected in accordance with the applicable discharge permit as directed by NMED Groundwater Quality Bureau.

The Permittees must initiate the pumping and treatment of discharge water at CdV-16-4ip no later than **August 30, 2013**. A report containing the evaluation and interpretation of data and information collected during testing, along with recommendations for further actions, must be submitted to NMED no later than **December 13, 2013**.

Should you have any questions, please contact Michael Dale of my staff at (505) 661-2673.

Sincerely,



John E. Kieling
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
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File: Reading and LANL 2013, CdV-16-4ip IM Work Plan Source Removal