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Date: January 30, 2009
Refer To: EP2009-0018

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: Review of December 2008 Groundwater Data

Dear Mr. Bearzi:



The Los Alamos National Laboratory (LANL) Water Stewardship Project (LWSP) met on January 15, 2009, to review new groundwater data received in December 2008. At that time, several groundwater samples were identified with contaminant concentrations above the New Mexico or federal water quality standards.

The LWSP project leader notified the New Mexico Environment Department (NMED) Hazardous Waste Bureau about these findings by telephone on January 15, 2009, and followed up with an email on the same day.

The 16 instances of a contaminant above a standard for the first time (based on samples collected since June 14, 2007) are tabulated in the attached report. Samples collected at these locations before June 14, 2007, also contained the same contaminants at concentrations above a standard, with the following exceptions:

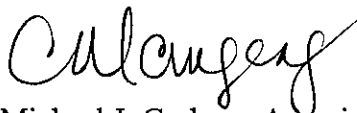
- Chromium was detected at 563 $\mu\text{g/L}$ in a filtered sample collected at Sandia Canyon intermediate well SCI-2; the New Mexico groundwater standard is 50 $\mu\text{g/L}$.
- Chromium was detected at 848 $\mu\text{g/L}$ in a filtered sample collected at Mortandad Canyon regional aquifer well R-42; the New Mexico groundwater standard is 50 $\mu\text{g/L}$.
- Dioxane[1,4-] was detected at 61.4 $\mu\text{g/L}$ in an unfiltered sample collected at Pajarito Canyon regional aquifer well R-20; the U.S. Environmental Protection Agency (EPA) Region 6 tap water screening level is 61.12 $\mu\text{g/L}$. This compound was not detected in analysis by the more accurate semivolatile organic method.

- Ammonia (as nitrogen) was detected at 2.66 $\mu\text{g/L}$ in a filtered sample collected from the sump for the 1063 ft. screen [sampled to assess possible inflow of perched groundwater during drilling of nearby R-25(c)] at Cañon de Valle regional aquifer well R-25; the EPA Region 6 tap water screening level is 0.209 $\mu\text{g/L}$.
- Phenol was detected at 38.3 $\mu\text{g/L}$ in an unfiltered sample collected from the sump for the 1063 ft. screen [sampled to assess possible inflow of perched groundwater during drilling of nearby R-25(c)] at Cañon de Valle regional aquifer well R-25; the New Mexico groundwater standard is 5 $\mu\text{g/L}$.

This letter is our written submission that indicates in the accompanying report and tables the chemical constituents that meet the seven screening criteria laid out in the Compliance Order on Consent, modified on May 13, 2008. The report identifies data collected since June 14, 2007, that meet these criteria.

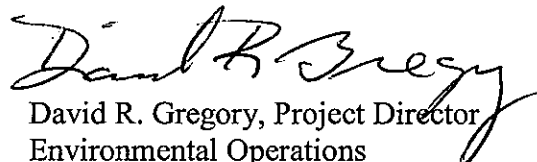
If you have questions, please contact Ardyth Simmons at (505) 665-3935 (asimmons@lanl.gov) or David Gregory at (505) 667-5808 (dgregory@doeal.gov).

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/AS/DR:sm

Enclosure: Report and accompanying tables: "Summary of New Los Alamos National Laboratory Groundwater Data Loaded in December 2008" (LA-UR-09-0220)

Cy: (w/enc.)

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