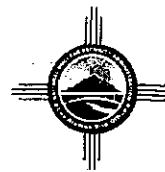




*Environmental Programs*  
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*National Nuclear Security Administration*  
Los Alamos Site Office, MS A316  
Environmental Restoration Program  
Los Alamos, New Mexico 87544  
(505) 667-4255/FAX (505) 606-2132

Date: APR 20 2011  
Refer To: EP2011-0165

James 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 Periodic Monitoring Report for Vapor-Sampling Activities at Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54, First Quarter Fiscal Year 2011**

Dear Mr. Bearzi:

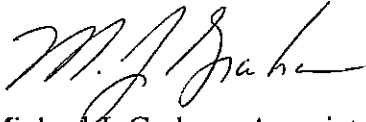
Enclosed please find two hard copies with electronic files of the Periodic Monitoring Report for Vapor-Sampling Activities at Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54, First Quarter Fiscal Year 2011.

Pore-gas concentrations of several volatile organic compounds (VOCs) continue to exceed the Henry's law screening value. A corrective measure evaluation (CME) report was submitted to the New Mexico Environment Department in October 2010. The CME identified the volatilization and vapor diffusion of VOCs through the subsurface to the groundwater as a potentially complete pathway. A remedial action objective was established in the CME to prevent groundwater from being impacted above a regulatory standard from diffusion of VOCs through soil vapor. A remedial strategy to address the VOC vapor plume was also presented in the CME.

The VOC pore-gas concentrations at MDA L have been identified as a problem warranting action. At this time, additional quarterly sampling provides minimal supporting information to the CME process, and the additional sampling results will not change the need for a remedial action to address the VOC plume beneath MDA L. Los Alamos National Laboratory (the Laboratory) proposes to complete the third quarter fiscal year 2011 periodic monitoring and reporting cycle and then proceed to an annual sampling and reporting cycle. The annual sampling would be performed in the third quarter of each fiscal year until the final remedy for MDA L is selected and implemented.

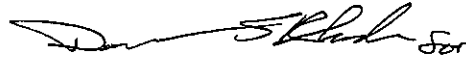
If you have any questions, please contact Jarrett Rice at (505) 500-5673 (wjrice@lanl.gov) or Suzy Schulman at (505) 606-1962 (sschulman@doeal.gov).

Sincerely,



Michael J. Graham, Associate Director  
Environmental Programs  
Los Alamos National Laboratory

Sincerely,



George J. Rael, Manager  
Environmental Projects Office  
Los Alamos Site Office

MG/GR/AB/JR:sm

Enclosures: Two hard copies with electronic files – Periodic Monitoring Report for Vapor-Sampling Activities at Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54, First Quarter Fiscal Year 2011 (LA-UR-11-2084)

Cy: (w/enc.)  
Neil Weber, San Ildefonso Pueblo  
Suzy Schulman, DOE-LASO, MS A316  
Jarrett Rice, EP-TA-54 Closure Project, MS M991  
RPF, MS M707 (w/ two CDs)  
Public Reading Room, MS M992

Cy: (Letter and CD and/or DVD only)  
Laurie King, EPA Region 6, Dallas, TX  
Steve Yanicak, NMED-DOE-OB, MS M894  
Daniel Romero, EP-ET, MS C3492084 (w/ MS Word files on CD)  
William Alexander, EP-BPS, MS M992

Cy: (w/o enc.)  
Tom Skibitski, NMED-OB, Santa Fe, NM (date-stamped letter emailed)  
Annette Russell, DOE-LASO (date-stamped letter emailed)  
Andy Baumer, EP-TA-54 Closure Project, MS C348 (date-stamped letter emailed)  
Michael J. Graham, ADEP, MS M991 (date-stamped letter emailed)