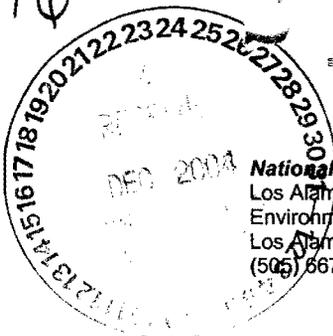




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TA 16



National Nuclear Security Administration
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 Los Alamos, New Mexico 87544
 (505) 667-7203/FAX (505) 665-4504

Date: December 21, 2004
 Refer To: ER2004-0717

Mr. James Bearzi, Chief
 NMED – Hazardous Waste Bureau
 2905 Rodeo Park Drive East
 Building 1
 Santa Fe, NM 87505-6303

SUBJECT: NOVEMBER 2004 CORRECTIVE MEASURES STUDY (CMS) PROGRESS REPORT FOR POTENTIAL RELEASE SITE (PRS) 16-021(c)-99, 260 OUTFALL

Dear Mr. Young:

Enclosed are two copies of the November 2004 CMS Progress report for PRS 16-021(c)-99, 260 outfall. This report is being submitted as part of the reporting conditions outlined in Section R, Task IX of Module VIII of the Laboratory's Hazardous Waste Facility Permit.

If you have any questions, please call Dave McInroy at (505) 667-0819 or Lance Woodworth at (505) 665-5820

Sincerely,

David McInroy, Deputy Project Director
 Remediation Services
 Los Alamos National Laboratory

Sincerely,

David Gregory, Federal Project Director
 Department of Energy
 Los Alamos Site Office

DM/DG/DH/jr

Enclosures: 1. November 2004, CMS Progress Report (ER2004-0703)



6521

Mr. James Bearzi
ER2004-0717

2

December 21, 2004

Cy:(w/enc)

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RPF, MS M707

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B. Rich, ADO, MS A104
C. Voorhees, NMED-OB

Monthly Progress Report
Corrective Measures Study (CMS) for Potential Release Site (PRS) 16-021(c)-99
November 2004

This report summarizes Los Alamos National Laboratory (LANL) activities completed during November of fiscal year (FY) 2005 on the CMS for PRS 16-021(c)-99, the 260 Outfall. Both the activities described in the CMS plan ([LA-UR-98-3918], approved by NMED-HWB on 9/8/99), and other related activities are described herein.

Description of Activities and Contacts

High Performing Team (HPT) Activities – The HPT did not meet during November, 2004.

The next HPT meeting is tentatively scheduled for January 2005. Topics will include a 260 update, a discussion of the ponds and TA-16-340 Complex fieldwork, planning for public involvement, and updated information on drilling.

RCRA Facility Investigation (RFI) Phase II Report and CMS Plan– No activities this month.

Best Management Practices (BMPs)– BMPs are inspected quarterly and following significant precipitation events.

CMS Hydrogeologic Investigations– CMS hydrogeologic investigations include ongoing Phase II RFI sampling as well as continuing investigations outlined in the CMS plan.

The ongoing Phase II RFI sampling program includes collecting stable isotope samples at Martin and Burning Ground springs; this sampling is now focused on capturing high-flow events.

The hydrologic system in Cañon de Valle is moderately wet, due to the significant fall rains. SWSC spring contains a small amount of water. Martin Spring is flowing at a rate of ~ 25 mL/sec. Burning Ground Spring is flowing at a rate of ~ 375 mL/ sec.

The 90s Line Pond contains water. This has impacted planned drilling activities in that pond. Many of the other locations that had become wet during March and April, including Fishladder Seep, and surface locations in Martin Spring Canyon and Cañon de Valle, except from Burning Ground Spring to just east of MDA-P, are now dry.

Two precipitation samples were collected during this reporting period.

CDV-16-1(i) has had the pump installed and is waiting on electrical hook-up by KSL.

A discussion of the path forward for CDV-16-2(i) and CDV-16-3(i) was held between LANL and Department of Energy (DOE) representatives. Current plans are to spend several days trying to overdrill CDV-2(i). If this is successful a new screened interval will be installed at depth. If this is unsuccessful, a new well will be drilled at a nearby location. CDV-16-3(i) will be sampled from the open borehole.

A discussion of modeling strategies for the deep groundwater CMS was held by LANL representatives. Current plans are to complete a streamlined performance assessment model similar to the one recently performed for Mortandad Canyon.

Ecological Risk Pilot–

The ecological risk pilot is complete and results are presented in the Phase III RFI Report.

CMS Bench and Pilot Studies– Write-up of bench and pilot studies, many of which were completed under the auspices of the Innovative Technology Remediation Demonstration (ITRD) program, have been completed. The ITRD HE program is focused on two DOE sites: LANL and Pantex. Ongoing studies include:

1. A study of the passive barrier technology of Stormwater Management, Inc., potentially useful for removing HE and barium from waters (LANL).
2. A study of in situ anaerobic bioremediation of HE using gas-phase carbon additions (Pantex).
3. Oxidation, reduction, and in-situ bioremediation studies of groundwater contamination (Pantex).

Interim Measure (IM) –

The IM Report was approved by NMED in a letter dated January 13, 2003. No new activities occurred during this reporting period.

RFI and CMS Report –

The CMS Report was completed and submitted to NMED on November 26, 2003; the RFI Report was completed and submitted in October of 2003. A response to the NOD on the RFI Report was submitted on January 28, 2004 and an addendum to that NOD response was submitted on February 25, 2004. An approval with modifications for the RFI was received on June 23, 2004, and a response to the approval was submitted to NMED on July 23, 2004. The RFI text is currently being modified to reflect the NOD and Approval with Modification comments.

Public and Stakeholder Involvement– None.

Percentage of CMS Completed

LANL estimates 100 % of the surface CMS has been completed (please note this percentage does not reflect either the deep or intermediate boreholes being drilled per the CMS plan addendum).

Problems Encountered/Actions to Rectify Problems

CDV-16-2(i) and CDV-16-3(i) are not producing water.

Key Personnel Issues

None.

Projected Work for December 2004

RFI Reports and CMS Report

- Issuing of revised RFI report

BMPs

- Continued inspection of existing BMPs following significant precipitation events.

CMS Hydrogeologic Investigations

- Site maintenance at the TA-16 trailers.
- Maintenance of autosamplers
- Checking for levels and presence of water in alluvial and deep wells. Sounding CDV-16-2 (i) and CDV-16-3 (i)
- Precipitation monitoring
- Data analysis.

Ecological Risk Pilot

- None

CMS Bench and Pilot Studies

- None

Public and Stakeholder Involvement

None