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Date: October 21, 2004
 Refer To: ER2004-0578

Mr. John Young, Project Leader
 Permits Management Program
 NMED – Hazardous Waste Bureau
 2905 Rodeo Park Drive East
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SUBJECT: SEPTEMBER 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 September 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, scope of work for Resource Conservation and Recovery Act CMS at the Laboratory, Task IX, Reports, Part A, Progress, 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 Operations

DM/DG/DH/jr



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Enclosures: 1. September 2004, CMS Progress Report (ER2004-0571)

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

This report summarizes Los Alamos National Laboratory (LANL) activities completed during September of fiscal year (FY) 2004 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. Note that work during September was affected by the LANL stand down that began on 7/19/04.

Description of Activities and Contacts

High Performing Team (HPT) Activities – The HPT did not meet in September 2004.

The next HPT meeting is tentatively scheduled for October 2004. If field work at the TA-16-340 Complex has started, this meeting may be held at LANL and will include a tour of the 'Fishladder' work. 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. The jute matting in the TA-16-260 drainage needed some minor repairs that will be accomplished in October.

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 Canon de Valle is moderately wet, due to the monsoonal 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. Many of the other locations that had become wet during March and April, including Fishladder seep, and surface locations in Martin Spring Canyon and Canon 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.

Recent stable isotope data from Burning Ground and Martin springs were evaluated. Results are consistent with the data presented in the Phase III RFI Report.

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, is complete. 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. At 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 September 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– A presentation of the TA-16-260 work was made at the RRES-RS colloquium on September 9, 2004.

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 significant amounts of water.

Key Personnel Issues

None.

Projected Work for October 2004

RFI Reports and CMS Report

- Issuing of revised RFI report

BMPs

- Continued inspection of existing BMPs following significant precipitation events. Repairs to jute matting in TA-16-260 drainage.

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.
- Update to annual readiness review
- Quarterly sampling

Ecological Risk Pilot

- None

CMS Bench and Pilot Studies

- None

Public and Stakeholder Involvement

None