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Date: June 3, 2004
Refer To: ER2004-0308

Mr. John Young, Corrective Action Project Leader
Permits Management Program
NMED – Hazardous Waste Bureau
2905 Rodeo Park Drive East
Building 1
Santa Fe, NM 87505-6303



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

Dear Mr. Young:

Enclosed are two copies of the May 2004 CMS Progress report for PRS 16-021(c), the 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
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Los Alamos Site Operations

DM/DG/DH/th

Enclosures: May 2004, CMS Progress Report (ER2004-0307)



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Cy:(w/enc)

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

This report summarizes Los Alamos National Laboratory (LANL) activities completed during May 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.

Description of Activities and Contacts

High Performing Team (HPT) Activities – The 260 HPT did not meet during May 2004, although team members did meet informally at the Munitions cleanup training course that was held in Bernalillo, New Mexico from May 17-19.

The next HPT meeting is tentatively scheduled for June 21, 2004. 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. No BMP repairs were required in May.

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 samples at Martin and Burning Ground spring for stable isotopes. This sampling is now focused on capturing high-flow events.

The alluvial and intermediate wells were checked for presence and level of water. All of the five alluvial wells in Canon de Valle contained water, as did one of three alluvial wells in Martin Spring Canyon. All of the intermediate depth boreholes were dry. Both SWSC and Martin Springs are now dry.

Most of the locations that had become wet during March and April, including 90s Line Pond, 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. It appears that the hydrologic system has returned to the low-flow state that it has been in during the recent drought.

One precipitation sample was collected during this reporting period.

Sounding of boreholes CDV-16-2(i) and CDV-16-3(i) was accomplished only once during May due to 'red flag' fire conditions that limited access to the well heads. The water depth level in CDV-16-2(i) was ~ 1019 ft and the water depth level in CDV-16-3(i) was ~ 1350 ft. The levels were constant during May. The field team attempted to sample standing water in CDV-16-3(i), but was only able to collect 600 ml of sample, which is inadequate for a laboratory analysis for HE. A screening analysis will be completed.

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 to NMED in September. A response to the NOD on the RFI Report was submitted on January 28, 2004. An addendum to that response was submitted on February 25, 2004. Text was modified in March to reflect the latest NOD.*

Public and Stakeholder Involvement– None during this reporting period.

Percentage of CMS Completed

LANL estimates 100 % of the surface CMS has been completed to date. Note this percentage does not reflect the deep and intermediate boreholes being drilled per the CMS plan addendum. LANL estimates that 63 % of the deep groundwater CMS has been completed.

Problems Encountered/Actions to Rectify Problems

The fact that CDV-16-2(i) and CDV-16-3(i) are not producing water remains of concern. This means that nature and extent of groundwater contamination remains poorly constrained. LANL/DOE will continue to sound these boreholes and decide how to proceed over the next few months. Additional boreholes may be required.

Key Personnel Issues

None.

Projected Work for June 2004

RFI Reports and CMS Report

- None

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.
- Quarterly sampling

Ecological Risk Pilot

- None

CMS Bench and Pilot Studies

- None

Public and Stakeholder Involvement

None