

TA-16

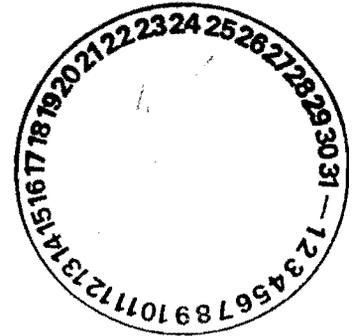


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Date: May 17, 2004
Refer to: ER2004-0273



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

SUBJECT: APRIL 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 April 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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DM/DG/DH/th



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Enclosures: March 2004, CMS Progress Report (ER2004-0244)

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

This report summarizes Los Alamos National Laboratory (LANL) activities completed during April 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 met briefly on April 12, 2004. Agenda items included a 260 update, a discussion of drilling activities, a discussion of upcoming work at the TA-16-340 complex and the TA-16 ponds, a brief discussion of the notice of deficiency (NOD) status of the 260 RFI and CMS Reports, and a discussion of public involvement activities.

LANL representatives provided updates on the CMS sampling investigations, including a discussion of quarterly sampling and an update on the status of the Canon de Valle hydrologic system. Additional details on these projects are provided below in this monthly progress report and in the March 2004 progress report.

LANL provided information on water levels in intermediate-depth boreholes CdV-16-2(i) and CdV-16-3(i) both of which are exhibiting fairly constant water levels of ~ 1019 ft and ~ 1350 ft, respectively. The HPT viewed the borehole video for CdV-16-2(i) and observed the significant amounts of water that appeared to be entering the borehole below 830 ft depth. LANL noted they would soon attempt to sample the standing water in the CDV-16-3(i) borehole and analyze it for HE.

LANL noted that the schedule for fieldwork at the TA-16-340 Complex is projected to start in late June or early July, following delayed decontamination and decommissioning (D&D) and ESA Division activities in the interior of the building. This schedule should allow NMED time to review the recently submit investigation work plan for the TA-16-340 Complex. LANL reiterated their desire to implement the RFI Workplan sampling for the TA-16 Ponds, which was handed out, in order to better formulate a cleanup plan for those sites. NMED suggested that completing such sampling would probably be acceptable. Further discussion on this issue will occur at the next HPT meeting. This sampling would occur in the late summer of 2004.

LANL inquired concerning the status of the notice of deficiency (NOD) for the Phase III TA-16-260 RFI Report and CMS Report. NMED representatives suggested that a second RFI NOD focused on ecological risk issues was likely. LANL requested that a draft of any NOD be faxed to LANL and DOE representatives as soon as feasible.

It was agreed that engaging in a public involvement activity in June should be a goal for the HPT.

The next HPT meeting is tentatively scheduled for May 17, 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 April.

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 two of three alluvial wells in Martin Spring Canyon. All of the intermediate depth boreholes were dry. Martin spring has become wet again as a result of spring snowmelt. Overall the hydrologic system is very wet.

Canon de Valle was wet throughout much of its length. The 90s Line pond contained water. Fish Ladder seep and Water Canyon at the Canon de Valle confluence were also wet.

One precipitation sample was collected during this reporting period.

Quarterly sampling within the Canon de Valle alluvial system was completed including a stream profile with laboratory samples.

Quarterly sampling at CDV-R-15-3 and CDV-R-37-2 was completed. The uppermost screened zone in the regional aquifer at CDV-R-37-2 continued to exhibit high turbidity.

Sounding of boreholes CDV-16-2(i) and CDV-16-3(i) was accomplished twice during April. 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 April.

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 62 % 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 six months. Additional boreholes may be required.

Key Personnel Issues

None.

Projected Work for May 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.

Ecological Risk Pilot

- None

CMS Bench and Pilot Studies

- None

Public and Stakeholder Involvement

None