



Date: February 9, 2006
Refer To: ER2006-0109

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



SUBJECT: JANUARY 2006 MONTHLY PROGRESS REPORT FOR CORRECTIVE MEASURES STUDY FOR POTENTIAL RELEASE SITE 16-021(c)-99

Dear Mr. Young:

Enclosed are two hard copies of the January 2006 Corrective Measures Study (CMS) Progress Report for Potential Release Site (PRS) 16-021(c)-99, the 260 Outfall. The report is submitted according to the approved CMS plan for PRS 16-021(c)-99.

If you have questions, please call Don Hickmott at (505) 667-8753 (dhickmott@lanl.gov) or Woody Woodworth at (505) 665-5820 (lwoodworth@doeal.gov).

Sincerely,

David McInroy, Deputy Program Director
Environmental Remediation & Surveillance
Los Alamos National Laboratory

Sincerely,

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



DH/jk

Enclosure: Two hard copies with electronic files - January 2006 Monthly Progress Report
Corrective Measures Study for Potential Release Site 16-021(c)-99 (ER2006-0145)

Cy: (w/enc)

D. Hickmott, EES-6, MS D462 (bound copy with CD)
D. Gregory, DOE LASO, MS A316 (bound copy with CD)
P. Reneau, ENV-ECR, MS M992 (CD only)
L. King, EPA Region 6 (CD only)
ENV-ECR File, MS M992 (unbound copy with CD)
RPF, MS M707 (unbound copy with CD)
S-7, MS F674 (unbound copy without CD)

Cy: (w/o enc)

A. Dorries, ENV-ECR, MS M992
D. McInroy, ENV-ERS, MS M992
G. Lopez Escobedo, ENV-ERS, MS M992
B. Rich, ADTS, MS A104
D. Pepe, NMED-OB
IM-9, MS A150

Monthly Progress Report
Corrective Measures Study (CMS) for Potential Release Site (PRS) 16-021(c)-99
January 2006

This report summarizes Los Alamos National Laboratory (LANL) activities completed during January of fiscal year (FY) 2006 on the CMS for PRS 16-021(c)-99, the TA-16-260 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 January 2006.

The next HPT meeting is tentatively scheduled for February. Topics will include a TA-16-260 update, a discussion of intermediate-well drilling activities, a discussion of a drilling strategy to define the nature and extent of contamination of the TA-16-260 surge bed, and a discussion of the upcoming RFI Report for deep groundwater.

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. There were no significant precipitation events in January.

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

The ongoing Phase II RFI sampling program, currently focused on capturing high-flow events, includes quarterly stable isotope samples at Martin and Burning Ground Springs.

The hydrologic system in Cañon de Valle has begun to dry out due to no significant precipitation in November, December, and January. Martin Spring is flowing at ~50 mL/sec and Burning Ground Spring is flowing at a rate of ~200 mL/ sec. SWSC spring is dry.

The 90s Line Pond, Fishladder Seep, and downgradient surface locations in Martin Spring Canyon and Cañon de Valle are wet, but frozen. The alluvial wells in both Cañon de Valle and lower Martin Spring Canyon are wet. Surface water in Cañon de Valle was present from Burning Ground spring to just east of MDA P; however most of this reach was frozen. Water was likely present at the Cañon de Valle headwaters, the Water Canyon confluence, and the Fishladder Canyon confluence. Three alluvial wells have been installed in Fishladder Canyon as part of the TA-16-340 Complex investigations; the lower two of these are wet.

No well sampling occurred during January.

Ecological Risk Pilot–

The ecological risk pilot is complete; 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). Monitoring of barrier effectiveness has recommenced after several quarters of drought conditions during which Martin spring was dry.
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 Reports –

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 modifications were completed during December 2004 and submitted to NMED. An NOD on the CMS Report was received on May 16, 2005. A response to that NOD was submitted on June 15, 2005. LANL has responded to several recent NMED queries concerning the CMS Report.

Cross-sections associated with the contaminated surge bed in the TA-16-260 Pond area are being developed. These will be used to propose locations for additional boreholes to better define the location of that surge bed.

Initial sections for the RFI Report for TA-16 groundwater due in August 2006 were continued. Modeling was continued.

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

None.

Key Personnel Issues

None.

Projected Work for February 2006

RFI Reports and CMS Report

- Discussions regarding the CMS Report with NMED personnel.

BMPs

- Continued inspection of existing BMPs following significant precipitation events.

CMS Hydrogeologic Investigations

- Site maintenance at the TA-16 trailers.
- Checking for levels and presence of water in alluvial wells.
- Precipitation monitoring.
- Data analysis.
- Groundwater modeling.
- Work on groundwater RFI report.
- Submittal of a letter describing proposed drilling locations in the TA-16-260 Pond area

Ecological Risk Pilot

- None

CMS Bench and Pilot Studies

- None

Public and Stakeholder Involvement

None planned.