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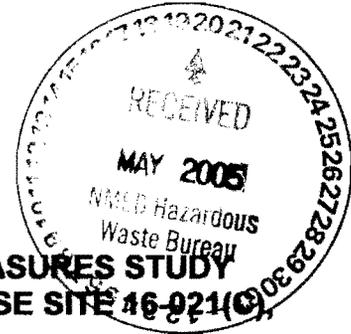


National Nuclear Security Administration
Los Alamos Site Office, MS A316
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Los Alamos, New Mexico 87544
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TH 16

Date: May 20, 2005
Refer To: ER2005-0315

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



**SUBJECT: SUBMITTAL OF APRIL 2005 CORRECTIVE MEASURES STUDY
PROGRESS REPORT FOR POTENTIAL RELEASE SITE 16-021(c),
THE 260 OUTFALL**

Dear Mr. Bearzi:

Enclosed are two copies of the April 2005 Corrective Measures Study
Progress Report for PRS 16-021(c), the 260 Outfall. The report is being submitted
in accordance with the approved CMS Plan for Potential Release Site 16-021 (c).

If you have any questions, please call Don Hickmott at (505) 667-8753 or
Lance Woodworth at (505) 665-5820.

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

DM/DG/DH/bms

Enclosures: April 2005 Corrective Measures Study Progress Report for
Potential Release Site 16-021(c), the 260 Outfall (ER2005-0281)



Cy (w/enc):

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Monthly Progress Report
Corrective Measures Study (CMS) for Potential Release Site (PRS) 16-021(c)-99
April 2005

This report summarizes Los Alamos National Laboratory (LANL) activities completed during April of fiscal year (FY) 2005 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 April 2005.

The next HPT meeting is tentatively scheduled for June 2005. Topics will include a TA-16-260 update, a discussion of the CMS report, public involvement, and updated information on 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. No BMP repairs were required in April, despite the high levels of precipitation.

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 collecting stable isotope samples at Martin and Burning Ground Springs.

The hydrologic system in Cañon de Valle is very wet, due to the heavy snowfalls. A significant amount of water is flowing over the weir at SWSC spring (250 ml/sec). Martin Spring is flowing at a rate of ~ 35 mL/sec and Burning Ground Spring is flowing at a rate of ~ 1500 mL/ sec..

The 90s Line Pond contains water, which has impacted planned drilling activities in the pond. Fishladder Seep, and downgradient surface locations in Martin Spring Canyon and Cañon de Valle all contain water. The alluvial wells in both Cañon de Valle and Martin Spring Canyon are wet.

Quarterly sampling of all locations containing water was completed in April. This sampling included a stream profile.

Two precipitation samples were collected during this reporting period.

The pump in CDV-16-1(i) has had its power hookup completed.

Sampling at CdV-R-15-3 was completed following a pump test. Field parameters are consistent with previous sampling of this well, with low turbidity (< 1 NTU) in all three regional aquifer screens.

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).
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 modifications were completed during December 2004 and submitted to NMED.

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 any significant amounts of water. CDV-16-2(i) will be redrilled in an attempt to isolate the source of water encountered during the initial installation.

Key Personnel Issues

None.

Projected Work for May, 2005

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.
- Maintenance of autosamplers
- Checking for levels and presence of water in alluvial and deep wells.
- Sampling of CDV-16-1(i)
- Precipitation monitoring
- Data analysis
- Groundwater modeling

Ecological Risk Pilot

- None

CMS Bench and Pilot Studies

- None

Public and Stakeholder Involvement

None.