TA 16

Los Alamos
NATIONAL LABORATORY
EST. 1943

***Environmental Programs***
Corrective Action Project
PO Box 1663, Mail Stop M992
Los Alamos, New Mexico 87545

*Date:* June 30, 2006
*Refer To:* EP2006-0629

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

RECEIVED
JUN 2006
NMED Hazardous Waste Bureau

**SUBJECT: SAMPLING NOTIFICATION**

Dear Mr. Bearzi:

The Los Alamos National Laboratory (LANL) Environmental Programs – Corrective Actions Project (ENV-CAP) is planning to conduct an investigation at the 30s and 90s Line Ponds area within Technical Area (TA)-16 at LANL. The investigation will include drilling and sampling to determine nature and extent of contamination at the site. The attached table shows the number of samples within given Solid Waste Management Units and the analytical suites. Fieldwork should commence no earlier than mid-July 2006 and should be completed no later than December 2006.

Work will be conducted in accordance with the following documents:

Investigation Work Plan of SWMUs 16-007(a)-99 (30s Line) and 16-008(a)-99 (90s Line) at TA-16 (LAUR 05-1694).

Response to Notice of Deficiencies for Investigation Work Plan of SWMUs 16-007(a)-99 (30s Line) and 16-008(a)-99 (90s Line) at TA-16, Los Alamos National Laboratory, EPA-ID #NM0890010515, HWB-LANL-05-004 Revision 1.

If you have any questions, please contact John McCann at (505) 699-2204 or email jmccann@lanl.gov.

Sincerely,

Andrew Phelps, Associate Director
Environmental Programs
Los Alamos National Security, LLC

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AP/JF/JM/jr

Attachment: Table Summary of Borehole Drilling, Sampling, Field Screening, and Analyses Proposed for Consolidated SWMUs 16-007(a)-99 and 16-008(a)-99, 30s Line and 90s Line Ponds

Cy:
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M. Leavitt, NMED-SWQB
D. Pepe, NMED-OB
IM-9, MS A150
Corrective Actions File, MS M992
RPF MS M707

## Table

## Summary of Borehole Drilling, Sampling, Field Screening, and Analyses Proposed for Consolidated SWMUs 16-007(a)-99 and 16-008(a)-99, 30s Line and 90s Line Ponds

| Consolidated SWMU | Area Addressed | Borehole Total Depth (ft) | Geologic Units encountered | Minimum Number of Samples Estimated for On-site Field Screening | Minimum Number of Samples Estimated for Fixed Laboratory Analysis | Fixed Laboratory Analysis | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | VOCs (SW-846 8260B) | SVOCs (SW-846 8270C) | HE Compounds (per Table III-1 of Consent Order) | TAL Metals (incl. Mercury) (SW-846 6010B, SW-846 7471A) | Chromium VI (SW-846 7196A) | Cyanide (SW-846 9012A or 9010B) | Uranium (SW-846 6020) | TPH DRO (SW-846 8015M) | Nitrate (EPA Method 300) | Perchlorate (SW-846 8321A) | Anions (EPA Method 300) | Alkalinity (EPA Method 310.1) | Total Dissolved Solids (TDS) |
| 16-007(a)-99 | 30s Line Ponds | At least 5 ft below the fill/tuff interface | Fill Qbt 4 | 18 | 9 (3 per BH) | X | X | X | X | - | X | X | - | X | X | - | - | - |
| | | 150 ft | Fill Qbt 4 Qbt 3 | 33 | 15 (3 per BH) | X | X | X | X | - | X | X | - | X | X | - | - | - |
| | 30s Line Former Sumps | At least 5 ft below the fill/tuff interface | Fill Qbt 4 | 18 | 9 (3 per BH) | X | X | X | X | - | X | X | - | X | X | - | - | - |
| | 30s Line Former Buildings | | | 36 | 18 (3 per BH) | X | X | X | X | - | X | X | - | X | X | - | - | - |
| | ALL AREAS | n/a | Fill Qbt 4 Qbt 3 | n/a | 13 | X | X | X | X | - | X | X | - | X | X | - | - | - |
| | ALL AREAS | n/a | n/a | n/a | 13 | - | - | X (not extended suite) | X | - | - | - | - | - | - | - | - | - |
| | ALL AREAS | n/a | n/a | n/a | 13 | X | - | - | - | - | - | - | - | - | - | - | - | - |
| | ALL AREAS | TBD | TBD | n/a | 3 (1 per deep BH) | X | X | X | X | - | X | X | - | X | X | X | X | X |
| 16-008(a)-99 | 90s Line Pond | 20 ft | Fill Qbt 4 | 24 | 12 (3 per BH) | X | X | X | X | - | X | X | - | X | X | - | - | - |
| | | At least 5 ft below the fill/tuff interface | Fill Qbt 4 | 12 | 6 (3 per BH) | X | X | X | X | - | X | X | - | X | X | - | - | - |
| | | 150 ft | Fill Qbt 4 Qbt 3 | 33 | 15 (3 per BH) | X | X | X | X | - | X | X | - | X | X | - | - | - |

| Consolidated SWMU | Area Addressed | Borehole Total Depth (ft) | Geologic Units encountered | Minimum Number of Samples Estimated for On-site Field Screening | Minimum Number of Samples Estimated for Fixed Laboratory Analysis | Fixed Laboratory Analysis | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | VOCs (SW-846 8260B) | SVOCs (SW-846 8270C) | HE Compounds (per Table III-1 of Consent Order) | TAL Metals (incl. Mercury) (SW-846 6010B, SW-846 7471A) | Chromium VI (SW-846 7196A) | Cyanide (SW-846 9012A or 9010B) | Uranium (SW-846 6020) | TPH DRO (SW-846 8015M) | Nitrate (EPA Method 300) | Perchlorate (SW-846 8321A) | Anions (EPA Method 300) | Alkalinity (EPA Method 310.1) | Total Dissolved Solids (TDS) |
| | | 2 ft into tuff or auger refusal | Fill Qbt 4 | 48 | 32 (2 per BH) | X | X | X | X | - | X | X | - | X | X | - | - | - |
| | 90s Line excavated area (including Former Sumps and drainlines) | At least 5 ft below the fill/tuff interface | Fill Qbt 4 | 60 | 20 (2 per BH) | X | X | X | X | - | X | X | - | X | X | - | - | - |
| | | | | 54 | 18 (2 per BH) | X | X | X | X | - | X | X | - | X | X | - | - | - |
| | 90s Line Former Drum Storage Area | | | 6 | 3 | X | X | X | X | - | X | X | X | X | X | - | - | - |
| | 90s Line Former Buildings | | | 60 | 30 (3 per BH) | X | X | X | X | - | X | X | - | X | X | - | - | - |

## Table (continued)

| Consolidated SWMU | Area Addressed | Borehole Total Depth (ft) | Geologic Units encountere | Minimum Number of Samples Estimated for On-site Field Screening | Minimum Number of Samples Estimated for Fixed Laboratory Analysis | Fixed Laboratory Analysis | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | VOCs (SW-846 8260B) | SVOCs (SW-846 8270C) | HE Compounds (per Table III-1 of Consent Order) | TAL Metals (incl. Mercury) (SW-846 6010B, SW-846 7471A) | Chromium VI (SW-846 7196A) | Cyanide (SW-846 9012A or 9010B) | Uranium (SW-846 6020) | TPH DRO (SW-846 8015M) | Nitrate (EPA Method 300) | Perchlorate (SW-846 8321A) | Anions (EPA Method 300) | Alkalinity (EPA Method 310.1) | Total Dissolved Solids (TDS) |
| 16-008(a)-99 | 90s Line Geomorphic drainage channels | 2 ft into tuff or auger refusal | Fill Qbt 4 | 12 | 8 (2 per BH) | X | X | X | X | - | X | X | - | X | X | - | - | - |
| | | | | 24 | 16 (2 per BH) | X | X | X | X | - | X | X | - | X | X | - | - | - |
| | 90s Line Cañon de Valle discharge | | | 12 | 8 (2 per BH) | X | X | X | X | X | X | X | - | X | X | - | - | - |
| | | | | 12 | 8 (2 per BH) | X | X | X | X | X | X | X | - | X | X | - | - | - |
| | | | | 12 | 8 (2 per BH) | X | X | X | X | X | X | X | - | X | X | - | - | - |
| | ALL AREAS | n/a | Fill Qbt 4 Qbt 3 | n/a | 32 | X | X | X | X | X [e] | X | X | X | X | X | - | - | - |
| | ALL AREAS | n/a | n/a | n/a | 32 | - | - | X (not extended suite) | X | - | - | - | - | - | - | - | - | - |
| | ALL AREAS | n/a | n/a | n/a | 32 | X | - | - | - | - | - | - | - | - | - | - | - | - |
| | ALL AREAS | TBD | TBD | n/a | 3 (1 per deep BH) | X | X | X | X | - | X | X | - | X | X | X | X | X |