TA-01

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OCT 2007
Hazardous Waste Bureau

National Nuclear Security Administration
Los Alamos Site Office, MS A316
Environmental Restoration Program
Los Alamos, New Mexico 87544
505-667-4255/FAX 505-667-5948

Date: October 1, 2007
Refer To: EP2007-0589

James P. Bearzi, Bureau Chief
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: Submittal of the Plan to Investigate the Source of Polychlorinated Biphenyls at LA-SMA-2

Dear Mr. Bearzi:

Los Alamos National Laboratory (the Laboratory) has assessed the New Mexico Environment Department's (NMED) requirements, outlined in a letter dated August 30, 2007, approving with direction the "Supplemental Investigation Report for Los Alamos and Pueblo Canyons." In this approval letter, NMED directs the Laboratory to submit a plan to "investigate the source of PCBs at LA-SMA-2." The implementation of the "Investigation Work Plan for Upper Los Alamos Canyon Aggregate Area," which was approved by NMED on November 6, 2006, will characterize potential sources of polychlorinated biphenyls (PCBs) in the area of former Technical Area (TA) 01. This letter outlines the initial plan for investigating the source of PCBs in LA-SMA-2.

All TA-01 solid waste management units (SWMUs) that are not administratively complete, including SWMU 01-001(f), will be investigated during this effort. Nearly 500 samples will be collected, all of which will be analyzed for PCBs. This effort will allow the Laboratory to assess historical PCB use in the area and to determine if residual concentrations persist. To identify potential sources of PCBs for LA-SMA-2, 43 of the TA-01 samples are to be collected within the footprint of SWMU 01-001(f) and associated outfall, located directly upgradient of and within the LA-SMA-2 watershed. In addition to the abovementioned samples, grab samples will be collected from soil located at the head of drainage areas within the LA-SMA-2 watershed and analyzed for PCBs. These drainage locations are not associated with a TA-01 SWMU or area of concern; however, data from the drainage area(s) may help identify the source of PCBs. Research will also be conducted to determine if any available data exist that will help identify the source of PCBs at LA-SMA-2.

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Samples will be collected using a spade and scoop or hand auger to characterize surface and near-surface contaminant sources with the potential to impact stormwater runoff. A hollow-stem auger drill rig may be used to collect samples from former subsurface sources that may have discharged to the canyon, such as sanitary sewers and storm drains.

The TA-01 sampling locations are shown on the attached plate. Note that the area of former TA-01 is now densely developed with roads, structures, and utilities, thus limiting the areas available for sampling. Furthermore, much of the area is privately owned, and therefore sampling is subject to approval by property owners.

The Laboratory believes that implementation of the approved Upper Los Alamos Aggregate Area work plan, scheduled to be implemented during fiscal year 2008, is the best first step to identifying the source of PCBs in the TA-01 area. Following review of PCB data, additional focused soil and/or stormwater sampling may be proposed, as necessary, to satisfy NMED's requirement to determine the source of PCBs at LA-SMA-2. If additional sampling is needed, it will be planned in conjunction with, and approved by, NMED.

If you have any questions, please contact Becky Coel-Roback at (505) 665-5011 (becky_cr@lanl.gov) or Cheryl Rodriguez at (505) 665-5330 (crodriguez2@doeal.gov).

Sincerely,

Susan G. Stiger, Associate Director
Environmental Programs
Los Alamos National Laboratory

Sincerely,

David R. Gregory, Project Director
Environmental Operations
Los Alamos Site Office

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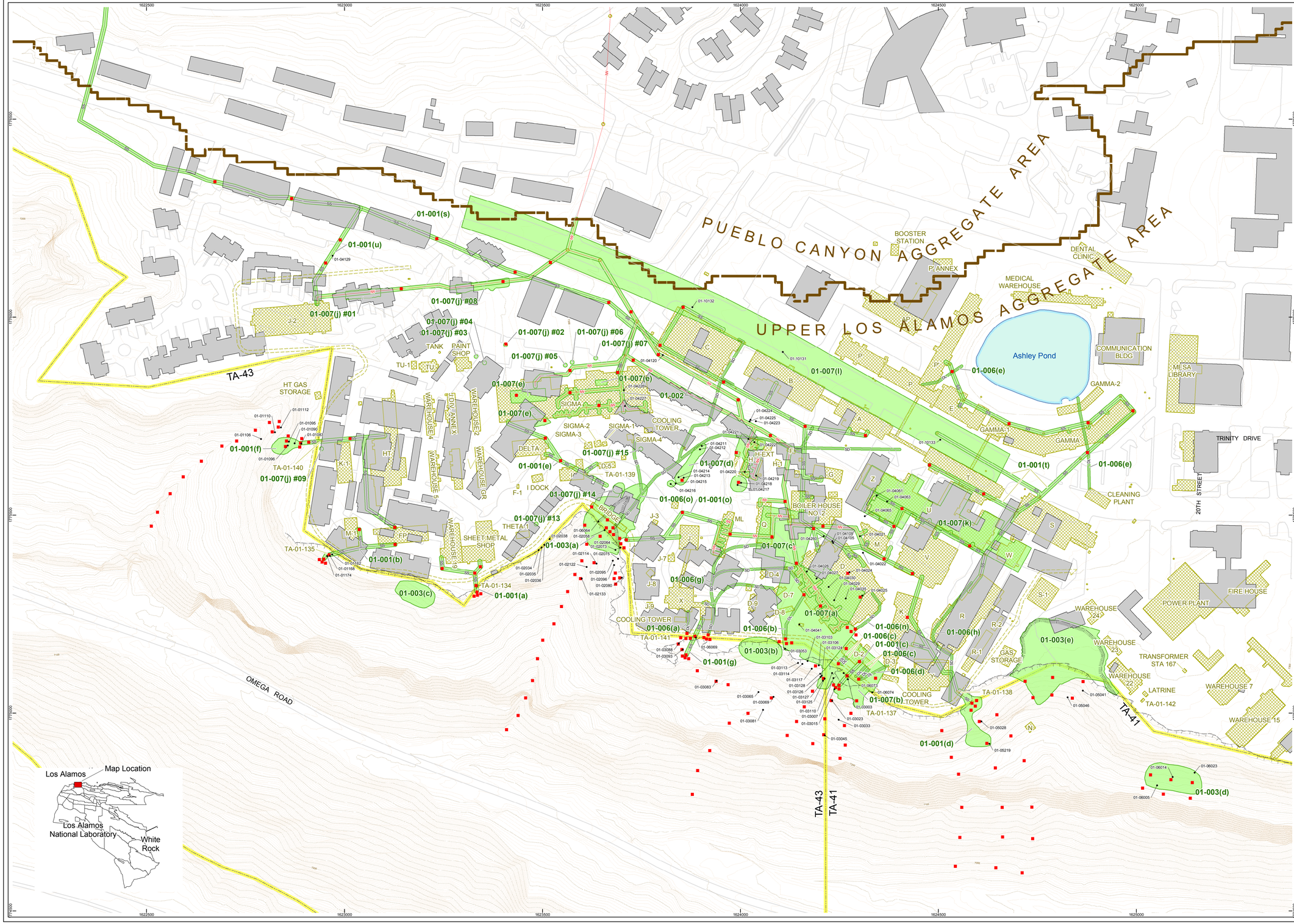

Proposed sample
Potential Release Site
Contour (feet)
Canyon rim (1990)
Paved road
Technical Area boundary
Current structure
Pond
Former building drain line
Former industrial waste line
Former sanitary sewer
Former storm drain
Canyon rim (circa 1963)
Former patrol road
Former structure (with id)

DATA SOURCES

ENVIRONMENTAL FEATURE DATA
Former Location of the Canyon Rim, Townsite South Rim; ENV Environmental Restoration & Surveillance Program, Proposed feature class FRMRTA01_canyonrim_arc, PMR05046; 1:2,500 Scale Data; 21 June 2005.
Former Acid Sewer (Industrial Waste) Features of Technical Area (TA) 01; ENV Environmental Restoration & Surveillance Program, Proposed feature class FRMRTA01_acidsewer_arc, PMR05046; 1:2,500 Scale Data; 28 September 2005.
Former Building Drain Lines of Technical Area (TA) 01; ENV Environmental Restoration & Surveillance Program, Proposed feature class FRMRTA01_bldgdrainlines_arc, PMR05046; 1:2,500 Scale Data; 14 September 2005.
Former Patrol Road, South Canyon Rim, Technical Area (TA) 01; ENV Environmental Restoration & Surveillance Program, Polygon Features, Not Controlled, ER_notcontrolled_ply, edition 2006-08; 1:2,500 Scale Data; 27 January 2006.
Former Sanitary Sewer Features of Technical Area (TA) 01; ENV Environmental Restoration & Surveillance Program, Proposed feature class FRMRTA01_sanitarysewer_arc, PMR05046; 1:2,500 Scale Data; 20 September 2005.
Former Storm Drain Features of Technical Area (TA) 01; ENV Environmental Restoration & Surveillance Program, Proposed feature class FRMRTA01_stormdrain_arc, PMR05046; 1:2,500 Scale Data; 19 September 2005.
Former Structures of Technical Area (TA) 01; ENV Environmental Restoration & Surveillance Program, Proposed feature class FRMRTA01_structures_ply, PMR05046; 1:2,500 Scale Data; 21 June 2005.
Location of the Canyon Rim, Townsite South Rim in 1991; ENV Environmental Restoration & Surveillance Program, Proposed feature class ER_TA01_canyonrim1991_arc, PMR05046; 1:2,500 Scale Data; 21 June 2005.
Potential Release Sites; Los Alamos National Laboratory, ENV Environmental Remediation and Surveillance Program, Draft Changes for SUID CC05007; 1:2,500 Scale Data; 21 June 2005.

INFRASTRUCTURE & CULTURAL FEATURE DATA
Hypsography, 2, 10, 20 and 100 Foot Contour Intervals; Los Alamos National Laboratory, ENV Environmental Remediation and Surveillance Program; 1991.
LANL Technical Areas; Los Alamos National Laboratory, KSL Site Support Services, Planning, Locating and Mapping Section; Development Edition of 05 January 2005.
Paved Road Arcs; Los Alamos National Laboratory, KSL Site Support Services, Planning, Locating and Mapping Section; Development Edition of 06 January 2005.
Ponds; County of Los Alamos, Information Services; 07 September 2004.
Structures; County of Los Alamos, Information Services; 08 September 2004.

N

0 100 200 300 400
Feet

1:1,400

State Plane Coordinate System, New Mexico Central Zone, US Feet, NAD 83

TA-01 FORMER AND PROPOSED SAMPLE LOCATIONS

LOS ALAMOS NATIONAL LABORATORY
Los Alamos, New Mexico 87545
22 February 2006

ENVIRONMENTAL REMEDIATION & SURVEILLANCE PROGRAM

Map Number PMR05046ZS
Created by Nicholas Pannerer
Revised by Dave Frank
8/24/2006
ERSS GIS Team

DISCLAIMER: This map was created for work processes associated with the Environment & Remediation Support Services division. All other uses for this map should be confirmed with LANL EP-ERSS staff.

LA-UR-06-5654