



100

100-100000-1000

**Field Summary Report  
For  
Best Management Plan**

At

PRS 33-008(c) & AOC-33-001

TA-33

Los Alamos National Laboratory

Environmental Restoration Project

September 20, 1999

OCT 22 1999

          pic

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### 3.0 AOC C-33-001

The field team's activities included: Polychlorinated Biphenols clean up of asphalt area within the Main Site area of TA-33. The area was located between building TA-33-114 and TA-33-113. Field team proceeded with the cleanup using the SPV 500-trailer vacuum. The trailer was positioned in the middle of the PRS where the hose radius of 40 ft. The team began with the area closest to the transformer pads next to building TA-33-114 then continued to pickup any sediment that was present in low laying depression on the asphalt. Special emphasis was placed within cracks or potholes that had developed over the years. Also a low-grade slope from building TA-33-114 east between TA-33-113 and 33-39 was followed that could potentially carry off surface sediment during storm events through this low-grade slope.

The vacuumed material was collected into a 55-gallon drum. A total volume of 55 gallons of material was collected. The Personal Protective Equipment and sampling spoon used were placed in the drum. The drum was labeled as PCB waste with a radiological sticker per the WCSF. The drum was stored at building 33-40. Also the High Efficiency Particulate Air Filter from the vacuum was handled as waste per the WCSF.

One homogeneous sample was collected from the waste stream as outlined in the WCSF for TCLP organics and TCLP inorganics. No field analysis was conducted on the sample. Sample RE33-99-0068 was collected on 09/15/99 at 1630 and was submitted to Sample Management Office on the following day.

#### *3.1 Satellite Accumulation Area*

An SAA was established for the vacuumed material, PPE, sampling supplies, and HEPA filter. Two PCB waste labels were registered for the material and the HEPA filter with ESH-19. The drummed material has PCB ID # 3842 & Chemical Waste Disposal Request ID. # 2126198. The HEPA filter has PCB ID # 3843 & Chemical Waste Disposal Request ID. # 2126195. Both items were stored with appropriate labeling on site at structure TA-33-40 on pellets and protected from the weather.

### 4.0 LIST OF APPENDIXES

Appendix 1	Best Management Plan
Appendix 2	Field logbook and related miscellaneous items.
Appendix 3	Sample Collection log and Chain of Custody Forms
Appendix 4	Photographs
Appendix 5	Site Specific Health and Safety Plan (SSHASP) Inspection sheet and monitoring data sheets

**DRAFT**

**BEST MANAGEMENT PLAN**

**FOR**

**PRSs 33-008(C) AND C-33-001**

**TA-33**

**LOS ALAMOS NATIONAL LABORATORY**

**ENVIRONMENTAL RESTORATION PROJECT**

**DECEMBER 22, 1998**

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## 1.0 Rationale and Objective of Best Management Practice Plan

This plan discusses clean-up activities to be conducted as a best management practice (BMP) activity for potential release sites (PRSs) 33-008(c) and C-33-001 at Technical Area (TA-33). Activities associated with this BMP include removal of debris from a watercourse, removal of potentially-contaminated soil, and placement of retention structures and catchments. This BMP will be conducted to remove the immediate hazards. Final phase II sampling and remedies (if appropriate) will be implemented at a later date.

## 2.0 Site Description and Characterization Data

TA-33 is located in the southeastern section of Los Alamos National Laboratory (LANL). The inactive sites at Main Site were found to contain debris and PCB contaminated sediments. Site descriptions and characterization data are presented below.

### 2.1 PRS 33-008(c)

PRS 33-008(c) is a non-HSWA site consisting of a debris pile in a drainage channel located approximately 100 ft east of Building TA-33-39 at Main Site (Figure 2-1). The drainage channel carries most of the runoff from Main Site which flows under the PRS through a 2-ft diameter culvert into a small tributary of Chacabuco Canyon. The channel is densely vegetated from about 70 ft east and down-drainage of the culvert. Except for major runoff events, the channel bed is dry.

Erosion around the culvert and channel banks has exposed a section of the debris pile just below the culvert containing bottles, metal turnings, battery cores, glass, etc. The 1993 Phase I investigation at PRS 33-017 included samples from the drainage area at PRS 33-008(c). Results from this investigation indicated nickel, lead, cadmium, silver, and zinc were present at concentrations greater than background levels but less than screening action levels (SALs). Samples in the drainage close to the culvert were analyzed as part of the 1996 Phase I investigation at PRS 33-008(c). Results from this investigation indicated the presence of cadmium, chromium, mercury, nickel, lead, and many organic compounds at concentrations exceeding SALs. Silver, arsenic, barium, selenium, antimony, uranium, and zinc were detected at concentrations greater than background levels but less SALs. The erosion matrix score for this site is 56. There is no site ranking score for this PRS.

### 2.2 PRS C-33-001

PRS C-33-001 is a non-HSWA site consisting of an area of PCB contamination originating from former power transformer TA-33-124. This transformer, believed to be the source of contamination, was mounted over a concrete pad on the East side of building TA-33-114 at Main Site (Figure 2-2). It was installed in the 1950's and was replaced in 1992. No active leaks were noted during a LANL transformer assessment in September 1985. The concrete pad is surrounded by a paved parking area between adjacent buildings. The parking area is fairly level and most of stormwater and sediments drain into two drains.

A Phase I investigation was conducted at C-33-001 in 1996. Sediment samples were collected to the north of the pad and from on top of, and within, cracks in the asphalt to the east of the concrete pad. The asphalt was not sampled. Results from the sediment sampling indicated PCBs are present at concentrations greater than the SAL.

## 3.0 Objective of Best Management Practice Plan

The objective of the BMP is to reduce the potential for exposure to contamination that could pose a significant risk to human health or the environment. The BMP at PRS 33-008(c) will remove

debris and prevent further migration of potential contaminants. This will meet the requirements set by New Mexico State Water Quality Control Commission regulations which prohibit "refuse in a natural watercourse or in a location or manner where there is a reasonable probability that the refuse will be moved into a natural watercourse by leaching or otherwise." The BMP at C-33-001 will remove contaminated sediment and prevent further migration of remaining contamination. Phase II Investigations will be conducted at these PRSs at a later date. These investigations will entail collecting samples to bound the contamination, and if necessary, removing more contamination.

#### 4.0 Best Management Practice Plan

##### 4.1 PRS 33-008(c)

The BMP at 33-008(c) will consist of

- 1 removing debris from the drainage channel, and
- 2 installing erosion control measures.

##### Removal of Debris

Debris will be removed from the drainage channel in the area of PRS 33-008(c). This area is estimated to include a distance of approximately 70 feet downstream from the culvert to where the drainage becomes heavily vegetated (Figure 2-2).

Debris will be screened for radioactivity before being picked up by the field crew. Radioactivity will be measured using direct reading instruments such as the ESP-1/HP 260 or E-600 with beta/gamma probe (or comparable instruments). Field personnel will have Laboratory Radworker II and dosimetry training. All personnel who operate the radiological instruments will be trained Radiation Screening Personnel. Information such as debris type, radioactivity, and depth (for subsurface debris) will be documented in the field notebook. Hazardous waste is not anticipated, however if the field team finds lead debris (lead metal is easily identified in the field), this material will be temporarily stored until it may be screened using X-ray fluorescence and possible off-site laboratory analysis.

All debris will be stored in a centralized area that will be determined by the TA-33 facility manager. At the centralized area, the debris will be segregated into appropriate waste types. A Radiation Control Technician will take smears of the radioactive waste to determine if contamination is removable. The waste will be stored in heavy industrial grade bags or other appropriate waste containers until it is transported to disposal facilities.

The majority of the debris is anticipated to be non-hazardous and non-radioactive waste. This waste will be disposed of at a municipal landfill. Non-hazardous non-radioactive material will be recycled when possible. Radioactive debris will be disposed of at TA-54.

##### Installation of Erosion Control

Following the removal of the debris, erosion control measures will be taken along the sides of the channel where the potential for erosion exists (Figure 2-2). A polyjute® erosion control blanket, or equivalent, will be used to provide a barrier against wind and rain erosion and to prevent migration of sediments. The barrier will be placed on the ground surface and will be secured with straw and native boulders.

##### 4.2 AOC C-33-001

The BMP at C-33-001 will consist of removing sediment from the asphalt surface.

Sediment will be removed from the asphalt parking lot area between adjacent buildings at Mam Site (Figure 2-2). The sediment will be vacuumed directly into 55-gallon drums or other temporary

storage containers that meet the TSCA requirements. Two composite samples will be collected from the drums and submitted to an off-site laboratory for PCB analysis. The soil will be handled and disposed of appropriately, based on analytical results.

**5.0 Monitoring and Confirmatory Activity**

Details are presented in Section 4.0 of this plan.

**6.0 Maintenance and Inspection**

Maintenance and inspections of the erosion controls will be conducted on a monthly basis along with the other BMPs at TA-33. Inspections will be documented in the BMP data base. The erosion control at 33-008(c) will be maintained and inspected until the time that the Phase II Investigation or remedy (if appropriate) is implemented.

**7.0 Estimated Waste Volumes and Types**

The anticipated waste types and volumes for the IAs are presented in the table below:

PRS	MATRIX	VOLUME	WASTE TYPE
33-008(c)	solid debris	< 1 yard <sup>3</sup>	industrial
33-008(c)	solid debris	< 0.1 yard <sup>3</sup>	radioactive
C-33-001	sediment	< 2 yard <sup>3</sup>	PCB
C-33-001	water	< 1 yard <sup>3</sup>	PCB

**8.0 Estimated Schedule**

The anticipated schedule and costs for the BMPs are presented in the table below:

TYPE ACTION	TASK	SCHEDULE
33-008(c)	readiness review - planning	July 19, 1999
	remove debris from the watercourse, install geomat in drainage and on walls of drainage.	July 20, 1999
	report writing, RPF	July 30, 1999
	waste management	July 30, 1999
C-33-001	readiness review - planning	July 19, 1999
	vacuum	July 20, 1999
	report writing	July 30, 1999
	waste management	July 30, 1999



# Field Logbook

1911-1912

E-31-99

- Today's activities: Field Team will perform work at PRS. 33-0086, the drainage channel behind main site. The work will consist of debris pick-up and storage. Crew will be working under SS#45P 246. Today's crew will consist of S. Wimer & E. Allen (T) Tom Karl will meet us at Th-33. At 1000, Steve Dennis will also meet us there.
- 0900 Crew departs office to drill yard to pick supplies,
- 1000 Crew arrives at Th-33, move supply trailer from South Site to PRS. 33-0086 behind main site. Crew set up trailer, read siting and sign.
- 1045 Crew call S. Alexander (SM for Th-33) about setting up a satellite storage area for haz-waste, he informs us that next building 33-36 will be fine. T. Karl arrives on site.
- 1055 Crew begins pick-up of debris, T. Karl has been screening all material picked up.
- 1100 Steve Dennis & Clarita Trujillo arrive on site. Steve is from ESH-18 & Clarita is from ESH-1 oversight.
- 1110 Steve instructs crew on installation of Geo-ridge berms to be placed in drainage. T. Karl speaks with Clarita about items screened and results from screening.
- 1135 Steve and Clarita depart site
- 1145 T. Karl departs site, crew will continue to gather debris and place in bags for storage in drum.
- 1230 Crew continues pick up.
- 1300 crew will now install Geo-ridge berms
- 1330 crew continues installation of Geo-ridge. First Geo-ridge was installed 20 ft. below culvert across drainage channel. As instructed by Steve and he left behind.
- 1430 Second Geo-ridge was installed approx. 200 ft. down gradient from culvert in drainage channel.
- 1500 Crew finishes field work and will set up a satellite storage area for collected debris near building 33-36, a satellite storage was set up online with Lynn Wimer's assistance.



9-1-99

Today activities: Satellite Storage area; smear taken  
of lead projectiles, & smear taken from loader  
and dump truck. Crew is consist of T. Karl & E. Alcon.  
SS#45P # 247. D. Lyons will also be part of crew.

0830 D. Lyons & E. Alcon depart office for TA-33.

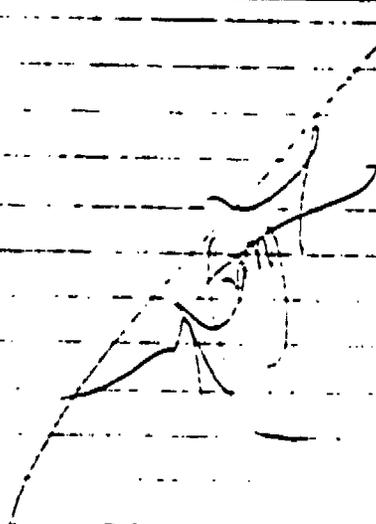
0900 Crew arrive at TA-33, relabel 33-00961 drum with debris and  
secure with lock.

0945 crew departs site for office.

1300 T. Karl & E. Alcon return to TA-33 to collect smears from  
loader & dump truck, also smears taken from lead  
projectiles.

1500 crew departs site back to office.





9:25

today activities: the collection of swans from project.

PR3 33-005C, work with the swans from project. The

will consist of 1. kill & skinning.

and delivered swans taken from project. The swans

1030 kilograms and swans from PR3 33-005C.

1130 The swans in 33-005C, swans from

1140 The origin work on projects by swans from project

and laying out for screening with labels in water.

212 probe for choice instrument for screening.

1200 Projects, screening swans, with double tape projects

around projects and 20 with # and some that

total of twenty-two projects in water

305 screening complete. If the twenty-three screens

if projects was spots of red of different areas

of metals. Then then took swans of all the

projects for lab work.

1350 Cur swans from site and made 200 to PR3

33-005C) to collect a wood sample from

debris collected from water course.

1410 Wood sample collected from waste debris and with

DE taken to Red Lion for analysis on Friday

1420 New reports. 11-33 for Red Lion.

1430 Cur pellets from sample.

1440 Cur report for office.

11/11/77

6-15-99

Today's activities: PCB Cleanup on AOC 33-001 at Tr-33  
 main site parking lot asphalt using the SPV 500 vacuum  
 crew will consist of S. Wimer & E. Alcorn. SHASP 205  
 will be followed by SUP for this type of work.

0815 Crew mob equipment & supplies and depart for site.

0900 Crew picking up transfer bag for used Hepa Filter.

0930 Crew pickup Vacuum from north yard and depart  
 for Tr-33.

1015 Crew arrive at Tr-33. <sup>6-15-99</sup> Tr-33 Facility Manager on site.

1030 S. Wimer conducts Tail gate briefing and review site.

1100 Crew will begin Vacuuming of asphalt parking lot.

1105 Vacuum was inspected and discovered it was not  
 properly sealed from previous job. (RE: Air hole - Tech 6,  
 crew will take equipment back to have it properly sealed.

1195 Crew departs for Tr-16 with Vacuum.

1215 Crew arrive at RES informs MK Staff of problem.  
 They quickly respond by having a member of their crew  
 begin to seal the vacuum.

1315 Decon is complete, and Tr crew departs for  
 Tr-33 to begin work, Linda Hala was call and  
 informed of status of work.

1345 Crew arrive at site and set-up equipment.

1400 Crew begin vacuuming.

1500 Vacuuming continues, down 1/2 full.

1540 Vacuuming continues, down 3/4 full.

1615 Vacuuming continues, down 3/4 full.

1630 Sample RE 33-99 - 0668 collected from drum for  
 organics TCLP & inorganics TCLP.

1640 Drum 90% full. PPE & Sampling Spoons are placed in drum.  
 Drum is labeled as PCB Waste with EST-19 PCB = 0.

SE-42 SE-43 will be used for HEPA Filter.

1700 Sample will be secured in trailer and will be  
 Submitted to Lab now.

1715 Crew leave site, and report for dinner.

*[Signature]*

Sample Collection

CCC

Los Alamos National Laboratory Environmental Restoration Program

SAMPLE COLLECTION LOG FOR SAMPLE ID RE33-99-0068

Date 7/15/99 Time 14:30 Sample Type Soil  
 Technical Area 33 Operable Unit 1122 Sample Location Acc-33-001  
 QA/QC Type None  
 Composite:  Yes  No Name (Print) Elmer Alcon  
 Composite Type: None Signature [Signature]  
 Grabs:

Location ID	Stake ID	Start Depth	End Depth	Units	Vol	Units	Comments
<u>1</u>	<u>N/A</u>	<u>0 N/A</u>	<u>0 N/A</u>		<u>0</u>		

These Samples were collected using LANL ER SOP 06.09

ID	Analysis	Container	Preservative	C of C	Control No.
01	METTCLP	125 ml Polyethylene	None		1122-99-0014
<del>02</del>	<del>PCE</del>	<del>125 ml Glass</del>	<del>None</del>		<del>1122-99-0014</del>
<del>03</del>	<del>RVCROSSAE RVCROSSC RYNE</del>	<del>Resealable Poly Bag</del>	<del>None</del>		<del>1122-99-0014</del>
04	SVOATCLP	125 ml Glass	None		1122-99-0014
05	VOATCLP	125 ml Glass	None		1122-99-0014

Weather 40°F Overcast, no wind  
 Sample Description Asphalt material sediment

Field Screening

Loc ID	Depth	Screening Method	Result	Units	Comments
--------	-------	------------------	--------	-------	----------

Photo (Roll, Frame, Azimuth, Subject, Participants):

Roll 1, Frame 24

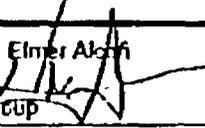
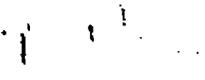
Comments:

Media Code: sediment, asphalt material

RE33-99-0068

Los Alamos National Laboratory Environmental Restoration (Los Alamos, NM 87545)  
CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

Technical Area 33	Send Lab Report to John McCann	Field Unit Leader John McCann
Operable Unit 1122	M992	(505)665-1091
Date 09/15/99	LANL Destination SMO	Turnaround 5 days
OU Contact John McCann	LANL Contact Stephanie Hageberg	Lab Report Required 09/20/99
Contact Phone No (505)665-1091	LANL Mail Stop	Charge Code MR3A13035003

Relinquished by: Elmer Alon (Signature):  Affiliation: IT Group	Date: 9-16-99	Relinquished by: (Signature): Affiliation:	Date:	Relinquished by: (Signature): Affiliation:	Date:
Received by: (Signature):  Affiliation:	Time: 1333	Received by: (Signature): Affiliation:	Time:	Received by: (Signature): Affiliation:	Time:
POSSIBLE HAZARD IDENTIFICATION: (please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances): Radiological___ Highly Toxic___ Flammable___ Skin Irritant___ Non-Hazard___ Other___			SCREENING METHOD: RadVan SAMPLE DISPOSAL: Disposal by Lab		
Comments:					

Field Unique Sample #/ID	Cont ID	Date & Time Collected	Sample Container Volume/Material	Matrix	Preserv	ANALYSIS REQUESTED: (SMD Order Codes)	REMARKS (Conditions of receipt, etc.)
RE33-99-0068	01	09/15/99 1630	125 ml Polyethylene	Soil	None	METTCLP	
RE33-99-0068	04	09/15/99 1630	125 ml Glass	Soil	None	SVOATCLP	
RE33-99-0068	05	09/15/99 1630	125 ml Glass	Soil	None	VOATCLP	



Client: ET - Gale E. Hark

Address: Los Alamos

Phone #: 661-5229  
Part #: 661-5222

Date: 9-7-99

Purchase Order #:

Job #:

Contact:

Date	Time	Sample ID	Type	Number of readings	Radiochemistry						Gamma Spectroscopy						
					Alpha	Beta	Re 226	Re 228	Td. Rad.	SPM S-90	Nal. Irrad.	Am Pu/Ce Mn/U	Radon	Subst	Td. Gamma	Other	
9-29	1045	1															
"	"	2															
"	"	3															
"	"	4															
"	"	5															
"	"	6															
"	"	7															
"	"	8															
"	"	9															
"	"	10															

Requested by: (Signature)		Date	Time	Requested by: (Signature)		Date	Time
<i>[Signature]</i>		5-7-99	1322	<i>[Signature]</i>		9-7-99	1332



## Sample Results

To: Linda Fluk  
IT

Fax: 661-5222

Date: 9/3/99

Pages: 5 (including cover)

American Radiation Services of NM  
1903 Central Ave.  
Los Alamos, NM 87544

Phone: 663-0363  
Fax: 663-0365

Have a Great Day!

1999-09-03 10:00 AM



1903 Central Ave. • Los Alamos, New Mexico 87544

(505) 663-0363 • Fax (505) 663-0365

04/01/92 • 04/01/92 • 04/01/92

**American Radiation Services of New Mexico**

**Laboratory Analysis Report**

**Prepared For:**

University of California  
Los Alamos National Laboratory  
Attn: Stephen Bolivar, EES-13, H865  
REF: G50960019-82  
PO Box 1663  
Los Alamos, NM 87545  
Phone: 667-1868  
Fax: 665-9972

  
Steven P. Wish  
General Manager

**Note:** American Radiation Services of New Mexico assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



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(505) 863-0363 • Fax (505) 863-0365

010 11111111 11111111

ARSNM Tracking Number:	ARSNM-99-0068	COC Number:	N/A
Client I.D.:	PRS-33-008	ARSNM Sample I.D.:	ARSNM-99-0388
Date Sampled:	9/2/99	Date Received:	9/2/99
Time Sampled:	1415	Time Received:	1411
Type of Sample:	solid	Date of Report:	9/3/99
Contact Person:	Linda Fluk	Charge Code:	MR3A13035003

Analysis Description	Analysis Result	Analysis Error +2 Sigma	Detection Limit	Analysis Units	Analysis Test Method	Analysis Date & Time	Analysis Technician
Trinium	151.52	1.12	0.77	pCi/gm	EPA 906M	9/3/99 0357	rw

Notes: Percent Moisture = 1.74%

  
Weylan Meitz

Cost Per Sample: 159.09

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



### Notes:

#### Comments:

- 1.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 2.0) The data in this report are within the limits of uncertainty specified in the reference method unless specified.
- 3.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix.
- 4.0) Derived Air Concentrations and Effluent Release Concentrations are obtained from 10 CFR 20 Appendix B.
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228. (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234. (Gamma Spectroscopy only).
- 8.0) All Gamma spectroscopy was performed utilizing high purity germanium detectors (HPGE).

#### Method References

- 1.0) EPA 600/4-80-032, Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Waste Water, 18th, 1992.
- 3.0) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, (9/86). (Updated through 1995).
- 4.0) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300

#### Definitions:

- |       |                 |  |
|-------|-----------------|--|
| 1.0)  | BDL             | Analyte not detected because the value was below the detection limit.                  |
| 2.0)  | ND              | Not detected above the detection limit.  |
| 3.0)  | Detection Limit | The minimum amount of the analyte that ARS can detect utilizing the specific analysis. |
| 4.0)  | B               | Method Blank   |
| 5.0)  | D               | Method Duplicate   |
| 6.0)  | MS              | Matrix Spike   |
| 7.0)  | S               | Spike  |
| 8.0)  | RS              | Reference Spike  |
| 9.0)  | *SC             | Subcontracted out to another qualified laboratory                                      |
| 10.0) | NR              | Not Referenced   |





# Sample Results

AMERICAN RADIATION SERVICES OF NEW MEXICO

To: Linda Fluk  
IT

Fax: 661-5222

Date: 9/8/99

Pages: 10 (including cover)

American Radiation Services of NM  
1903 Central Ave.  
Los Alamos, NM 87544

Phone: 663-0363  
Fax: 663-0365

Have a Great Day!



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(505) 663-0363 • Fax (505) 683-0365

1010 • 1010 • 1010 • 1010

**American Radiation Services of New Mexico**

**Laboratory Analysis Report**

**Prepared For:**

**University of California  
Los Alamos National Laboratory  
Attn: Stephen Bolivar, EES-13, H865  
REF: G50960019-82  
PO Box 1663  
Los Alamos, NM 87545  
Phone: 667-1868  
Fax: 665-9972**

  
**Steven P. Wish  
General Manager**

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(505) 863-0363 • Fax (505) 863-0365

NEW MEXICO

ARSNM Tracking Number: ARSNM-99-0070      COC Number: N/A  
 Client I.D.: Background-1      ARSNM Sample I.D.: ARSNM-99-0394  
 Date Sampled: 9/7/99      Date Received: 9/7/99  
 Time Sampled: 1045      Time Received: 1332  
 Type of Sample: solid      Date of Report: 9/8/99  
 Contact Person: Linda Fluk      Charge Code: MR3A13035003

Analysis Description	Analysis Result	Analysis Error -2 Sigma	Detection Limit	Analysis Units	Analysis Test Method	Analysis Date & Time	Analysis Technician
Tritium	21.17	0.92	2.17	pCi/100ml	EPA 906M	9/8/99 0357	sw

Notes: done *Flow board of truck*

*Waylan Metz*  
 Waylan Metz

Cost Per Sample 0.00

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



1902 Central Ave. - Los Alamos, New Mexico 87544

(505) 863-0363 - Fax (505) 863-3365

NEW MEXICO

ARSNM Tracking Number:	ARSNM-99-0070	COC Number:	N/A
Client I.D.:	2	ARSNM Sample I.D.:	ARSNM-99-2395
Date Sampled:	9/7/99	Date Received:	9/7/99
Time Sampled:	1045	Time Received:	1332
Type of Sample:	solid	Date of Report:	9/8/99
Contact Person:	Linda Fink	Charge Code:	MR3A13035013

13035013

Analysis Description	Analysis Result	Analysis Error -2 Sigma	Detection Limit	Analysis Units	Analysis Test Method	Analysis Date & Time	Analysis Technician
Tritium	ND	N/A	2.09	pCi/ml	EPA 906M	9/7/99 1107	SW

Notes: none  
*Metal*

*Waylan Meeks*  
 Waylan Meeks

Cost Per Sample: 159.09

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



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NEW MEXICO

ARSNM Tracking Number:	ARSNM-99-0070	COC Number:	N/A
Client I.D.:	3	ARSNM Sample I.D.:	ARSNM-99-0396
Date Sampled:	9/7/99	Date Received:	9/7/99
Time Sampled:	1045	Time Received:	1332
Type of Sample:	solid	Date of Report:	9/8/99
Contact Person:	Linda Fluk	Charge Code:	MR3A13035003

1903 Central Ave. Los Alamos, NM 87544

Analysis Description	Analysis Result	Analysis Error +2 Sigma	Detection Limit	Analysis Units	Analysis Test Method	Analysis Date & Time	Analysis Technician
Tritium	BDL	N/A	2.13	pCi/gm	EPA 906M	9/7/99 2248	SW

Notes: none  
*Fluk*

*Wayne Metz*  
Wayne Metz

Cost Per Sample: 159.09

NOTE: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



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(505) 663-0363 • Fax (505) 663-0365

NEW MEXICO

ARSNM Tracking Number: ARSNM-99-0070      COC Number: N/A  
 Client I.D.: 4      ARSNM Sample I.D.: ARSNM-99-0397  
 Date Sampled: 07/99      Date Received: 9/7/99  
 Time Sampled: 1045      Time Received: 1332  
 Type of Sample: solid      Date of Report: 9/8/99  
 Contact Person: Linda Fluk      Charge Code: MR3A13035003

FORM 100 (REV. 11/94)

Analysis Description	Analysis Result	Analysis Error +2 Sigma	Detection Limit	Analysis Units	Analysis Test Method	Analysis Date & Time	Analysis Technician
Trinium	BDL	N/A	2.11	pCi/gram	EPA 906M	9/8/99 0031	rw

Notes: none  
 Glass

*Waylan Meads*  
 Waylan Meads

Cost Per Sample: 159.09

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



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NEW MEXICO

ARSNM Tracking Number: ARSNM-95-0070      COC Number: N/A  
 Client I.D.: 5      ARSNM Sample I.D.: ARSNM-95-0398  
 Date Sampled: 9/7/95      Date Received: 9/7/95  
 Time Sampled: 1045      Time Received: 1335  
 Type of Sample: solid      Date of Report: 9/8/95  
 Contact Person: Linda Fluk      Charge Code: MR3A13035003

Linda Fluk - 9/8/95

Analysis Description	Analysis Result	Analysis Error = 2 Sigma	Detection Limit	Analysis Units	Analysis Test Method	Analysis Date & Time	Analysis Technician
Trimam	ND	N/A	2.08	pCi/cm <sup>3</sup>	EPA 905M	9/8/95 02:14	SM

Notes: none

*Wood*

*Waylan Metz*  
Waylan Metz

Cost Per Sample: 159.09

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



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NEW MEXICO

ARSNM Tracking Number:	ARSNM-99-0070	COC Number:	N/A
Client I.D.:	Blank-6	ARSNM Sample I.D.:	ARSNM-99-0399
Date Sampled:	9/7/99	Date Received:	9/7/99
Time Sampled:	1045	Time Received:	1332
Type of Sample:	Solid	Date of Report:	9/8/99
Contact Person:	Linda Fluk	Charge Code:	MR3A13035003

Analysis Description	Analysis Result	Analysis Error -2 Sigma	Detection Limit	Analysis Units	Analysis Test Method	Analysis Date & Time	Analysis Technician
Trinium	ND	N/A	2.10	pCi/STP	EPA 909M	9/8/99 0357	sw

Notes: none

*Waylan Metz*  
Waylan Metz

Cost Per Sample: 0.00

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in any form requires the written consent of the client.



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### Notes:

#### Comments:

- 1.0) Soil and Sludge analysts are reported on a wet basis or an as received basis unless otherwise indicated.
- 2.0) The data in this report are within the limits of uncertainty specified in the reference method unless specified.
- 3.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix.
- 4.0) Derived Air Concentrations and Effluent Release Concentrations are obtained from 10 CFR 20 Appendix B.
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228. (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234. (Gamma Spectroscopy only).
- 8.0) All Gamma spectroscopy was performed utilizing high purity germanium detectors (HPGE).

#### Method References:

- 1.0) EPA 600/4-80-032, Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980
- 2.0) Standard Methods for the Examination of Water and Waste Water, 18th, 1992.
- 3.0) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, (9/86). (Updated through 1995).
- 4.0) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Waste, March 1983
- 5.0) HASL 300

#### Definitions:

- |       |                 |  |
|-------|-----------------|--|
| 1.0)  | BDL             | Analyte not detected because the value was below the detection limit.                  |
| 2.0)  | ND              | Not detected above the detection limit.  |
| 3.0)  | Detection Limit | The minimum amount of the analyte that ARS can detect utilizing the specific analysis. |
| 4.0)  | B               | Method Blank   |
| 5.0)  | D               | Method Duplicate   |
| 6.0)  | MS              | Matrix Spike   |
| 7.0)  | S               | Spike  |
| 8.0)  | RS              | Reference Spike  |
| 9.0)  | *SC             | Subcontracted out to another qualified laboratory.                                     |
| 10.0) | NR              | Not Referenced   |

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.

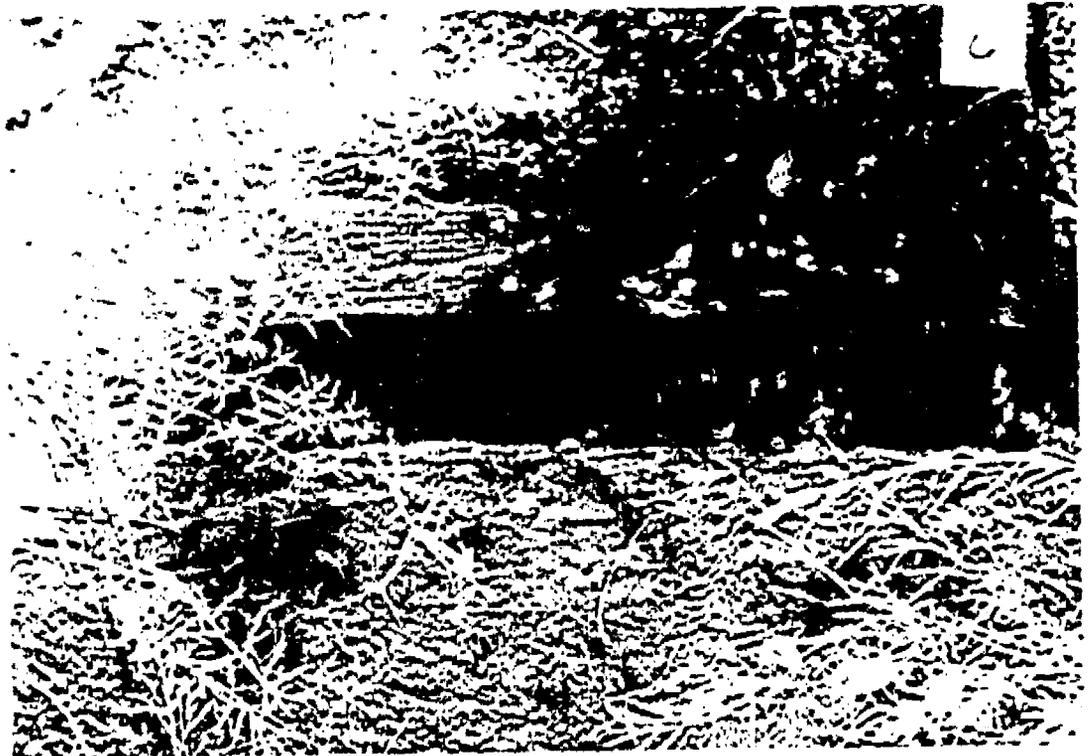


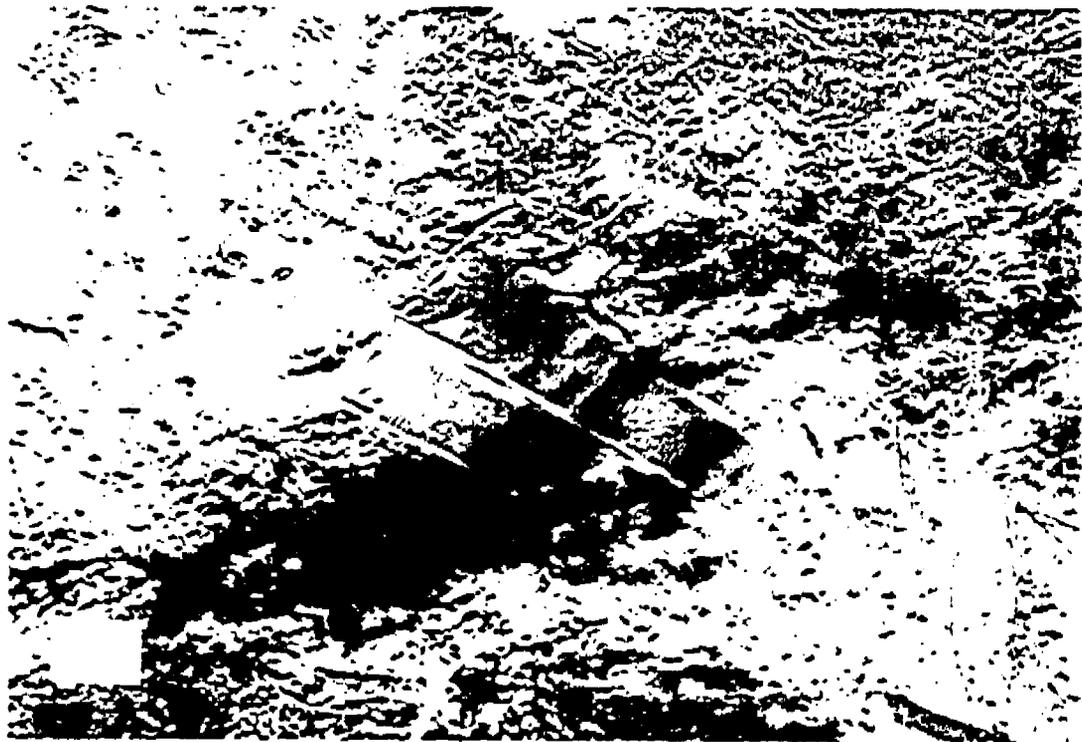


SITE NAME 33-008(c) AOC 33-001 SITE ID TA-33  
 PHASE Best Management Practice FIELD UNIT IT Corp

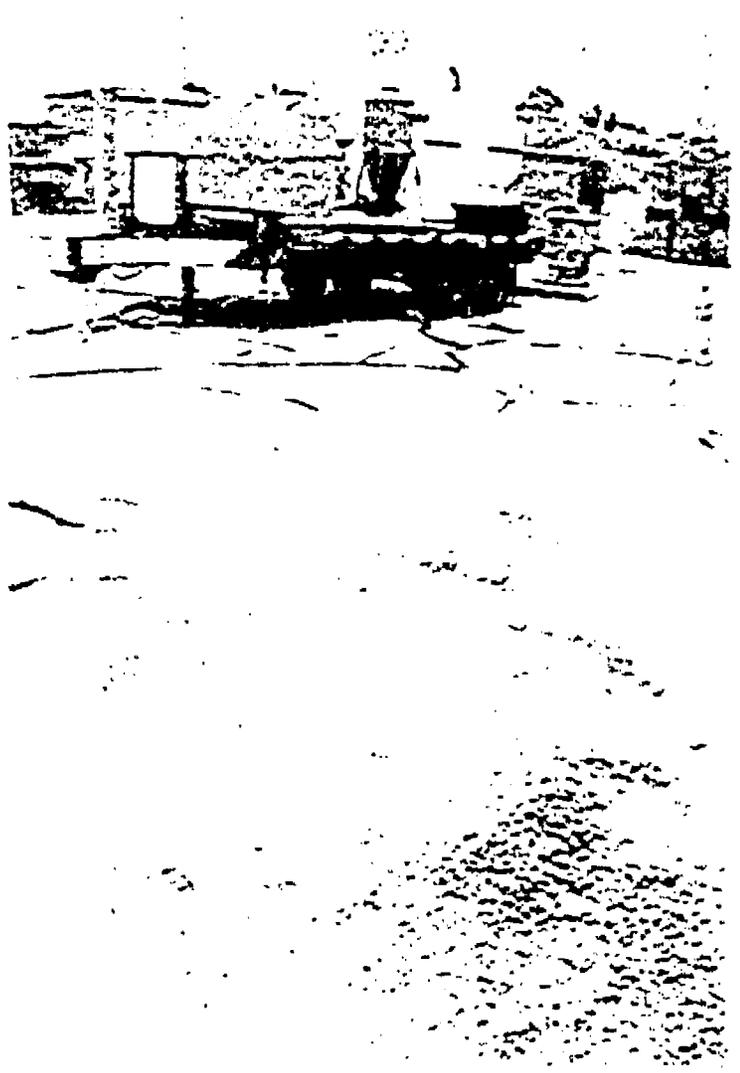
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2	1	2	08/31/99			Drainage Chan	33-008(c)	Prep work for Geo-Ridge
3	1	3	08/31/99			Drainage Chan	33-008(c)	Prep work for Geo-Ridge
4	1	4	08/31/99			Drainage Chan	33-008(c)	Upper Geo-Ridge in place
5	1	5	08/31/99			Drainage Chan	33-008(c)	Upper Geo-Ridge in place
6	1	6	08/31/99			Drainage Chan	33-008(c)	Upper Geo-Ridge in place
7	1	7	08/31/99			Drainage Chan	33-008(c)	Lower Geo-Ridge in place
8	1	8	08/31/99			Drainage Chan	33-008(c)	Lower Geo-Ridge in place
9	1	9	08/31/99			Drainage Chan	33-008(c)	Lower Geo-Ridge in place
10	1	10	08/31/99			Drainage Chan	33-008(c)	Lower Geo-Ridge in place
11	1	11	09/15/99			Drainage Chan	33-001	View of Transformers
12	1	12	09/15/99			Drainage Chan	33-001	Vacuum in place
13	1	13	09/15/99			Drainage Chan	33-001	Closeup of Asphalt
14	1	14	09/15/99			Drainage Chan	33-001	Site view
15	1	15	09/15/99			Drainage Chan	33-001	Vacuum in Action
16	1	16	09/15/99			Drainage Chan	33-001	Vacuum in Action

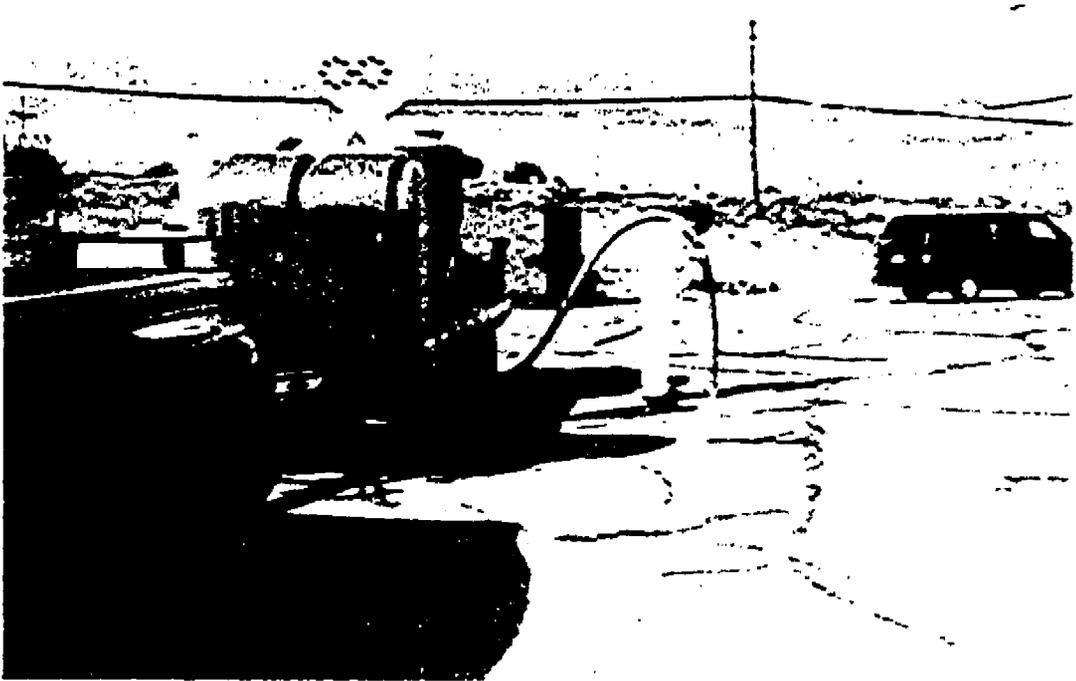
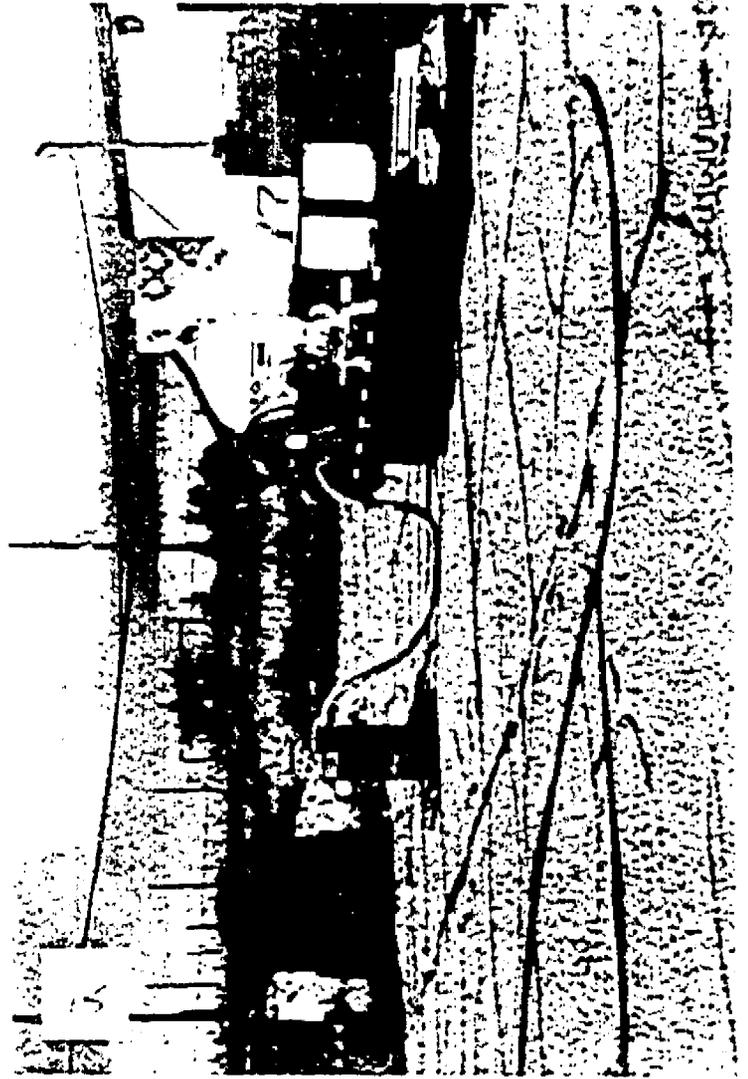
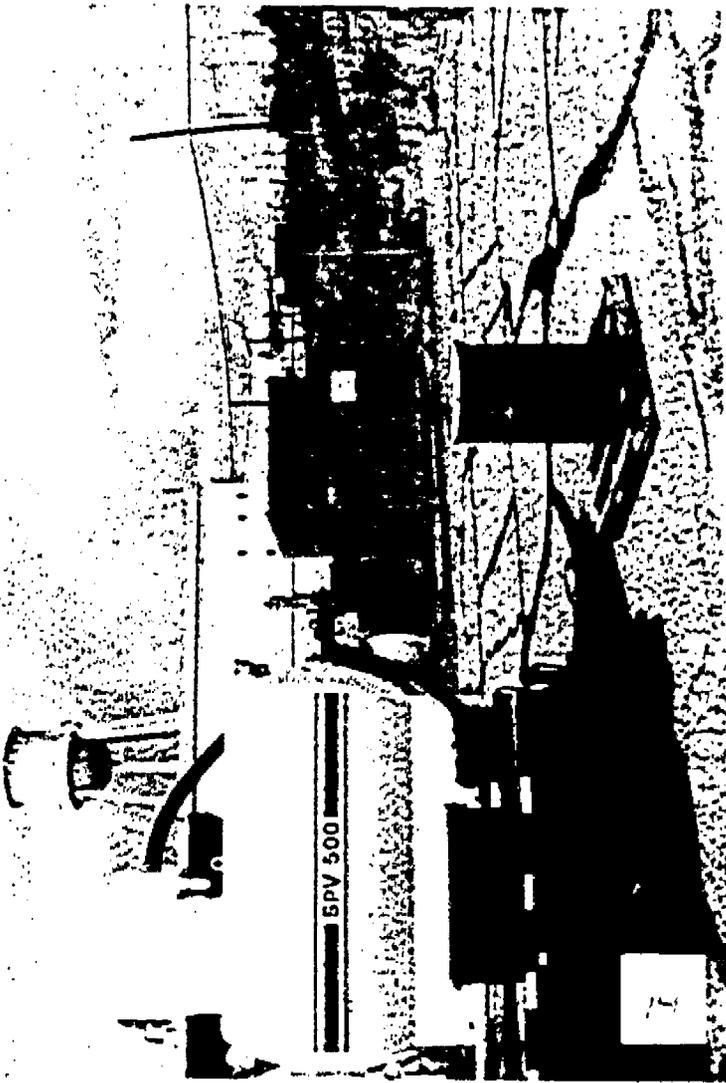












SSHASP  
- -

Data Sheets





## 2.0 TASK HAZARD ANALYSIS (THA) / WORK PACKAGE

PROJECT NAME: Soil Removal at TA-33

TASK (No.): 1

ESTIMATED DATE(S) & DURATION OF WORK *(by month is sufficient):* 5/99-8/99

### 2.1 TASK (No.1) DESCRIPTION

The scope of this project is to remove PCB contaminated soil originating from the former power transformer TA-33-124. This scope will be accomplished using the SPV 500, or other vacuum truck. The SPV 500 is a large vacuum mounted on a truck. All of the visible sediment on the concrete pad under the former location of the transformer and the surrounding asphalt parking lot will be removed using the vacuum and put directly into drums. The SPV 500 or other vacuum system has an attachment that makes it possible to transfer the soil directly from the vacuum to a drum. Before the soil has been removed BMP's may be installed to prevent migration of contaminated soil from the site. Once all of the soil has been removed the SPV 500 or equivalent will be decontaminated. Samples of the waste in the drums will be collected and sent to an off-site analytical laboratory for waste characterization purposes.

#### 2.1.1 KEY PERSONNEL HAVING TASK-SPECIFIC H&S RESPONSIBILITY\*

PM	<u>Linda Fluk</u>	Phone/Pager <u>661-5229</u>
FTL	<u>Kristi Beguin or Elmer Alcon</u>	Phone/Pager <u>661-5200/104-5176</u>
FAPL	<u>Warren Neff</u>	Phone/Pager <u>665-9259</u>
ER/ ESH-5 Rep.	<u>Trung Nguyen</u>	Phone/Pager <u>667-7905/996-1891</u>
ER/ ESH-1 Rep.	<u>John Elliott</u>	Phone/Pager <u>665-7461/104-6472</u>
Contacts:		
Operations	<u>Peter Bussolini</u>	Phone/Pager <u>667-0370</u>

001 - 11/15/99 - 3011

## 2.1.2 HAZARD ASSESSMENT

Radiological: N/A

High Explosives (HE): N/A

### Safety:

- Heavy Lifting HAR = minor Unlikely to occur but if exposure did happen could result in irreversible damage.
- Working around Heavy equipment HAR of Major Unlikely to occur but if exposure did occur results could be life threatening.
- Pinch Points/Rotating Parts HAR = Major Unlikely to occur but if exposure did occur results could be life threatening.
- Unsanitary working conditions(i.e., site sanitation/ Housekeeping) could possibly result in serious injury/ illness or death , HAR of Minor to serious

### Physical:

- Walking on terrain in /around work site where slips, trips and falls could result in possible reversible injury : HAR = Minor.
- Exposure to excessive noise associated with the use of heavy equipment is unlikely to occur contributing to irreversible injury , HAR = negligible to minor.
- Heat Stress HAR of Major. Unlikely to occur but if incident did occur result could be life threatening.
- Injury from lightning strike could possibly result in death : HAR= minor too serious.

### Chemical:

- PCB's HAR of Negligible Unlikely to occur but if exposure did occur results would be minor.
- Preservatives for water samples: HAR of negligible Unlikely to occur but if exposure did occur results would be minor.

### Biological:

- Hanta Virus, Bloodborne Pathogens, Snakes, and Insect bites, HAR of Minor Incident very likely to occur but if it could result in irreversible damage. Refer to IT/ICF Kaiser Bloodborne Pathogen Program.

## 2.1.3 HAZARD COMMUNICATION

Individuals who may be exposed to hazardous substances must be informed of the physical, chemical and toxicological properties of the substances and the means and methods for preventing, detecting, mitigating, and/or protecting themselves from exposure before they are allowed to access an area or perform a task where exposure may occur. It is IT's policy that whenever feasible a less toxic product should be substituted for a more toxic one, especially for products having a carcinogen.

MSDSs for each hazardous chemical product brought to the project site are to be kept readily available to anyone who may be exposed to the product, and shall be shared with other employer's employees onsite who may be affected by the hazardous product. As deemed necessary by the SSO to administer requirements of this SSHASP and for compliance with applicable requirements (e.g., HAZCOM, and/or employee H&S

briefing), some or all of the following resources are to be kept readily available for reference by project personnel:

- ACGIH Threshold Limit Values (TLVs) for Chemical Substances and Physical Agents and Biological Exposure Indices (published annually)
- Chemical Substance Hazard Assessment and Protection Guide (compiled and edited by Urie Environmental Health Inc.; most recent publication - 1994/5)
- Guide to Occupational Exposure Values (compiled by ACGIH, published annually)
- NIOSH Pocket Guide to Chemical Hazards (most recent publication - June 1997)

LABORATORY - J0274

## 2.1.4 SITE CONTROL

Workers must work in groups of at least two people ( buddy system) and have a means of direct communication or maintain contact at all times. Posting and demarcation will be in accordance with 29 CFR 1926.200 and 1910.145.

## 2.1.5 ADMINISTRATIVE and ENGINEERING (A&E) CONTROLS

Applicable LANL LIRs/LPRs/ LIGs/ Ars will be determined on job specific basis:

**Biological:** Inform personnel to stay away from areas that may contain mouse droppings. If droppings are noticed contact facility coordinator and building manager to complete cleanup. Personnel will be briefed to stay away from areas that snakes and other animals may inhabit. Personnel that may perform 1<sup>st</sup> Aid/CPR will be bloodborne Pathogen trained in accordance with ICF/IT BBP program.

**Heat Stress and Lightning:** Protection from lightning strikes and heat stress will be in compliance with ER Project HASP Appendix G and will be reviewed in a daily tailgate safety meeting

**Physical:** Personnel will be briefed prior to start of work where potential slip, trip, and fall hazards may be present.

- Use caution and be observant when walking in areas of potential concern. Minimize the threat of slick/ obstructed surfaces and use appropriate PPE.
- Compliance with 29 CFR 1910.95. As appropriate, implement engineering/ administrative controls or use appropriate PPE to reduce excessive noise levels. Whenever voice communications must be raised between personnel located within approximately 3 feet of each other ( or less) , the noise level(s) is likely exceeding the PEL. Conduct noise monitoring as deemed necessary in the absence of any previous representative data.

**Safety:** Personnel will use proper lifting techniques and the buddy lifting system when lifting heavy or large objects. Personnel will be briefed prior to start of work where pinch points and rotating parts are. Personnel will stand clear of vehicles and heavy equipment when in operation unless the personnel is in direct eye contact with the operator and is "spotting" for the operator.

- Determine the estimated location(s) of utilities . Notify utility owners of intended work and request surface demarcation(s) of underground utilities. Work shall be conducted under the guidance of LANL Excavation Permit and LANL " Electrical Safety " LIR 402- 600
- Compliance with 29 CFR 1926.300, 301, and 302 ( Subpart I) Tools and hand power.
- Compliance with 29 CFR 1926 Subpart F and 1926.150 and 151, as applicable. Fire extinguishers shall be maintained and readily accessible on site and ready for use at all times. Typical size / type will be 10 lb. ABC dry -chemical.
- If necessary, implement engineering controls (i.e., wet methods, dust suppression agent, ventilation) in compliance with 29 CFR 1926.55(b), 1926.57 and 1910.1000, as applicable, to prevent / minimize dispersion of dust in air. Also use proper PPE/ RPE.
- Compliance with OSHA housekeeping standards ( 29 CFR 1926.25 and 250 ( c) ) . As necessary , subcontractor to provide and maintain sanitary potable water supply and portable toilet facilities at clean site location (29CFR 1926.51). Project personnel will also be advised or practicing good personnel hygiene.
- Compliance with LIR 402-600.01.01, Electrical Safety as necessary.

Ergonomics ( lifting): Implement training for appropriate lifting techniques. Use equipment or the buddy system whenever possible. Do not manually lift any loads in excess of 50 pounds; use two ( or more) people to lift and carry heavier loads or use mechanical lift assist equipment ( i.e., dolly, forklift, etc). Make sure that path of travel is clear. Position any load to be lifted directly in front of body. Bend knees and grasp load underneath with both hands and raise primarily using legs (not back). To extend possible , carry the load in a manner that does not obstruct vision or intended access to where you step while transporting load.

**Site Materials:**

- Use appropriate PPE ( chemical protective clothing and /or eye, rubber gloves and /or face protection) as deemed necessary for the corresponding task(s) . Portable emergency eyewash shall be located on site within 10 seconds and < 100 feet travel distance of any source of hazardous chemical splash. Unit will provide 15 minutes continuous flushing. Unit will be inspected weekly and flushed according to manufacturer's instruction . Reference ANSI Z358.1.1990.

Will task affect other LANL operations, employees, or tasks?                      Yes \_\_\_\_\_ No   X  

If yes for other than emergency response matters, explain precautions taken and contacts notified:

**2.1.6 MEDICAL/RADIOLOGICAL SURVEILLANCE**

- Bloodborne Pathogens: Any occupational exposure; 29CFR 1910.1030 (f) for first-aid/ CPR responders only.
- Noise > 80 dBA : 29 CFR 1910.95
- Fitness for duty statement

## 2.1.7 EXPOSURE MONITORING

**TABLE 2.1.7-1  
DIRECT-READING INSTRUMENT REQUIREMENTS**

Hazardous Condition/ Substance	Task(s)	Instrument	Procedure	Location and Frequency of Monitoring	Action Level(s)	Response Action(s)	Action Level Rationale
<b>PHYSICAL CONDITIONS</b>							
X Noise	All noise producing tasks	Noise level meter	ER Project Guidance Manual	Only monitor non LAML employees, contact Focus Area HIS Rep if LAML employees need monitoring Noise measurements required when voice must be raised to communicate between two persons located < 3 feet of each other, monitor hearing zone(s) of employees affected by excessive noise 1st day of occurrence & whenever operations change warranting monitoring. Initial measurement and at 30 minute intervals while excessive noise condition persists	85 dBA	X Action Level Implement appropriate engineering control(s), if unable to lower noise levels below AL, demarcate/post zones of excessive noise and limit access only to employees having sufficient hearing protection training, medical surveillance, and hearing protection per this SSIASP	OSHA 29 CFR 1910.95 for non- LAML employees, IT/CF Kaiser Hearing Conservation Program

PHYSICAL CONDITIONS (cont'd)							
* Heat/Cold Stress	Whenever temperature reaches 85degrees, and employees are in PPE	Heart rate monitoring		See ER Project HHS Activities manual	85degrees when working in PPE	[Refer to Appendix G of the HIASP]	[Refer to Appendix G of the HIASP]
INDUSTRIAL HYGIENE (CHEMICALS)							
* Total Airborne Dust	Whenever dust becomes visible during ER activities at this site	Mist ram	* ER Project Guidance Manual	Other At the exhaust for the SPV 500 or other vacuum device	2.5mg/m3	action level (AL) in employee breathing zone. Implement dust suppression methods to control dust levels below AL. If unable to lower levels below AL, demarcate/post zones of excessive exposure and limit access only to employees having sufficient chemical specific PPE, training, and medical surveillance per this SSIHASP.	See ER Project HHS Activities manual

**2.1.8 PERSONAL PROTECTIVE EQUIPMENT (PPE)**

- **Face and Eyes:** Safety glasses w/side shields when working/sampling. In compliance with ANSI Z87-1989.
- **Hands:** Gloves for personnel handling soil or chemicals will be nitrile. General site workers leather when lifting equipment, cutting, etc.
- **Body:** Kleenguard for personal hygiene.
- **Foot:** Steel-toe safety shoes required. In compliance with ANSI Z-41-1991
- **Ears:** If noise levels exceed OSHA levels plugs/muffs with NRR of at least 32 will be worn.

**2.1.9 DECONTAMINATION**

**Personnel Decontamination:**

Hands must be washed prior to smoking, eating, drinking, or chewing.

**Equipment Decontamination:**

All equipment will be decontaminated prior to being released from the site. Equipment decontamination will be accomplished using dry decontamination as a primary / initial means. If dry decontamination is insufficient, spray washing will be used as an alternative decontamination method.

## 2.1.10 SPILL CONTAINMENT PLANS (task-specific)

A spill kit will be kept on site. All equipment will be throughout inspected before use. Procedures will be followed in accordance with the LANL Spill Prevention Containment and Control (SPCC) Plan.

## 2.1.11 EMERGENCY PLANS

See Section 1.4 of this SSHASP for Emergency Action Response Plan

## 2.1.12 ADDITIONAL INSTRUCTIONS/PROCEDURES

Applicable LIRs.

- 401.10 .01.0 – Stop Work and Restart
- 402.100.01.0 – Signs, Labels, Tags
- 201.00.04.0 – LANL Incident Reporting Process

Inspection	Inspector	Task(s)
<input type="checkbox"/> Job Site, Material and Equipment (in accordance with 29 CFR 1926.20(b)(2))	SSO	All
<input type="checkbox"/> General Sanitation (i.e., potable and non-potable water, toilets, washing facilities, eating and drinking areas, vermin control, and/or change rooms; in accordance with 29 CFR 1926.51)	SSO	All
<input type="checkbox"/> Materials handling, storage, use and disposal (in accordance with 29 CFR 1926.250 and 252)	SSO	All
<input type="checkbox"/> Signs, Signals and Barricades (in accordance with 29 CFR 1926.200)	SSO	All
<input type="checkbox"/> Motor vehicles and mechanized equip. (in accordance with Subpart O of 29 CFR 1926)	SSO, OP or CP as required	All
<input type="checkbox"/> PPE (Section 7 and 29 CFR 1926.95)	User	All
<input type="checkbox"/> Incident/emergency response equipment (prior to each use and at least monthly)	SSO	All
<input type="checkbox"/> Fire fighting equipment (per 29 CFR 1926.150(a) and (c))	SSO	All
<input type="checkbox"/> Tools - hand and power (in accordance with Subpart I of 29 CFR 1926)	User and SSO	All
<input type="checkbox"/> Electrical equipment (per 29 CFR 1926.403(b) and/or 416(f)(8))	OP or CP as required	All

OP = Qualified Person; CP = Competent Person (per 29 CFR 1926.32(f) or (m))

2025 RELEASE UNDER E.O. 14176

## RECORDKEEPING

In addition to recordkeeping requirements of Section 13 of the HASP, the HS records specified below shall be completed in accordance with Section 13 of the HASP and kept onsite as indicated below.

RECORDKEEPING REQUIREMENTS		
Record/Form	Requirement Reference	Keep Onsite
<input type="checkbox"/> HASP	HASP Section 1	X
<input type="checkbox"/> This SSHASP	HASP Section 1	X
<input type="checkbox"/> Completed Modification Forms	HASP Section 7	X
<input type="checkbox"/> SSOs Daily Logbook	HASP Section 13.1	X
<input type="checkbox"/> Documentation of Training Requirements	HASP Section 10	
<input type="checkbox"/> Documentation of Medical Surveillance	HASP Section 11	
<input type="checkbox"/> Exposure Monitoring Records	Section 6 of the HASP and applicable exposure monitoring methods in the ER Project Guidance Manual	X
<input type="checkbox"/> HS Inspection Records	HASP Section 12.1	X

### 2.1.13

### TRAINING REQUIREMENTS

Types of training: R = Read training; C = Classroom training; F = Field training; AN = As necessary per the HASP or applicable (regulatory or employer) requirement

Training Requirement	Type	Personnel to be Trained
HASP	R	All
SSHASP (HASP Section 10.1.1)	R	All
Pre-Job Start HS Briefing (HASP Section 10.1.1)	F or C	All
Task HS Briefing	F or C	All
HS Tailgate Mtes. (as necessary, at least weekly) (HASP Section 10.1.2)	F	All
SSO	C	SSO
1st Aid/CPR (Amer. Red Cross or equiv.; compliance with HASP Section 10.1.3)	C	SSO
Bloodborne Pathogens (Employer's program & 29 CFR 1910.1030)	C	SSO
PPE (Employer's program & HASP Section 7.1)	F	All
Employer's Hazard Communication Program (Employer's program & 29 CFR 1910.1200)	R	All

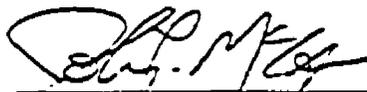


Los Alamos National Laboratory  
**ENVIRONMENTAL RESTORATION (ER)**  
**SITE-SPECIFIC HEALTH & SAFETY PLAN (SSHASP)**

Project Name: Soil Removal at TA-53 (AOC C-33-001) SSHASP Number 255

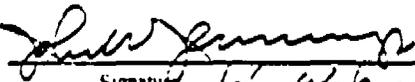
The LANL ER Health and Safety Plan (HASP) supplements this SSHASP and shall be complied with as applicable. Copies of the HASP and this SSHASP are to be readily accessible for review onsite by individuals who may be exposed to hazards resulting from work conducted under the scope of this SSHASP. Personnel performing work under the scope of this SSHASP are required to sign the LANL ER Work Authorization and Health & Safety Briefing Acknowledgement page signifying that they are aware of the hazard information documented herein and will abide by requirements of these plans to eliminate or lessen the risk of injury or illness from exposure to the identified hazards.

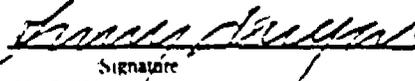
**APPROVALS / CONCURRENCE**

 Warren Neff LANL 8-16-99  
 Signature Name/Title Company Date  
 Focus Area Project Leader Approval

 Scott Wimer IT 8/12/99  
 Signature Name/Title Company Date  
 H&S Responsible Line Manager Approval

Scott Den-Baars IT  
 Signature Name/Title Company Date  
 Responsible Line Manager Approval

 Peter Bussolini LANL 8/19/99  
 Signature Name/Title Company Date  
 Facility Manager Concurrence

 Trung Nguyen LANL 8/19/99  
 Signature Name/Title Company Date  
 ER/ESH-5 Representative Concurrence

 John Elliott LANL 8/17/99  
 Signature Name/Title Company Date  
 ER/ESH-1 Representative Concurrence

Comments of the above reviewers have been incorporated as stipulated or resolved with written record and copy to the respective reviewer.

Robert Monsalve-Jones IT 8-12-99 M892 661-5220  
 Preparer's Name Signature Company/LANL Group Date Mailstop Phone

Los Alamos National Laboratory  
 ENVIRONMENTAL RESTORATION (ER)  
 SITE-SPECIFIC HEALTH & SAFETY PLAN (SSHASP)

Project Name: Soil Removal at TA-33 (AOC C-33-001) SSHASP Number 255

The LANL ER Health and Safety Plan (HASP) supplements this SSHASP and shall be complied with as applicable. Copies of the HASP and this SSHASP are to be readily accessible for review onsite by individuals who may be exposed to hazards resulting from work conducted under the scope of this SSHASP. Personnel performing work under the scope of this SSHASP are required to sign the LANL ER Work Authorization and Health & Safety Briefing Acknowledgement page signifying that they are aware of the hazard information documented herein and will abide by requirements of these plans to eliminate or lessen the risk of injury or illness from exposure to the identified hazards.

APPROVALS / CONCURRENCE

	Warren Neff	LANL	
Signature	Name/Title	Company	Date
Focus Area Project Leader Approval			

	Scott Wimer	IT	
Signature	Name/Title	Company	Date
H&S Responsible Line Manager Approval			

	Scott Den-Baars	IT	2/18/99
Signature	Name/Title	Company	Date
Responsible Line Manager Approval			

	Peter Bussolini	LANL	
Signature	Name/Title	Company	Date
Facility Manager Concurrence			

	Trung Nguven	LANL	
Signature	Name/Title	Company	Date
ER/ESH-5 Representative Concurrence			

	John Elliott	LANL	
Signature	Name/Title	Company	Date
ER/ESH-1 Representative Concurrence			

Comments of the above reviewers have been incorporated as stipulated or resolved with written record and copy to the respective reviewer.

Robert Monsalve-Jones	IT	M892	661-5220	
Preparer's Name	Signature	Company/LANL Group	Date	Mailstop Phone

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100 - HPS-001 - 001

## LIST OF ACRONYMS AND ABBREVIATIONS

AL.....	Action Level
ANSI.....	American National Standard Institute
APR.....	Air-Purifying Respirator
°C.....	Degrees Centigrade
CFR.....	Code of Federal Regulations
CGI.....	Combustible Gas Indicator
CP.....	Competent Person
CPR.....	Cardiopulmonary Resuscitation
CRZ.....	Contamination Reduction Zone
HASP.....	Health and Safety Plan
DAC.....	Derived Air Concentration
dBA.....	Decibels (A-Weighted Scale)
DOE.....	U.S. Department of Energy
DOT.....	U.S. Department of Transportation
DPL.....	Decommissioning Project Leader
EPA.....	U.S. Environmental Protection Agency
ER.....	Environmental Restoration
ESH.....	Environmental, Safety and Health
ESH-1.....	Health Physics Operations Group
ESH-2.....	Occupational Medicine Group
ESH-5.....	Industrial Hygiene and Safety Group
ESH-12.....	Policy and Program Analysis Group
eV.....	Electron Volts
EZ.....	Exclusion Zone
°F.....	Degrees Fahrenheit
Fibers/cc.....	Fibers Per Cubic Centimeter
FID.....	Flame Ionization Detector
GET.....	General Employee Training
HAZWOPER.....	Hazardous Waste Operations
HEPA.....	High Efficiency Particulate Air
HPT.....	Health Protection Technician
HS.....	Health and Safety
IARC.....	International Agency for Research on Cancer
IDLH.....	Immediately Dangerous to Life or Health
IP.....	Ionization Potential

100 - 1000000 - 10000

JS .....	Job Superintendent
LAMC .....	Los Alamos Medical Center
LANL .....	Los Alamos National Laboratory
LEL .....	Lower Explosive Limit
LIG .....	Laboratory Implementation Guidance
LIR .....	Laboratory Implementation Requirement
mg/Kg .....	Micrograms Per Kilogram
mg/m <sup>3</sup> .....	Milligrams Per Cubic Meter
mm .....	Millimeters
MSDS .....	Material Safety Data Sheet
MUC .....	Maximum Use Concentration
NIOSH .....	National Institute for Occupational Safety and Health
NRR .....	Noise Reduction Rating
OSHA .....	Occupational Safety and Health Administration
PAH .....	Polycyclic Aromatic Hydrocarbons
PCB .....	Polychlorinated Biphenyls
PEL .....	Permissible Exposure Limit
PF .....	Protection Factor
PID .....	Photoionization Detector
PPE .....	Personal Protective Equipment
PRS .....	Potential Release Site
RCT .....	Radiological Control Technician
RMMA .....	Radioactive Materials Management Area
RSP .....	Radiological Screening Personnel
RWP .....	Radiological Work Permit
SOP .....	Standard Operating Procedure
SSHASP .....	Site-Specific Health and Safety Plan
SSO .....	Site Safety Officer
SUP .....	Supervisor
SWMU .....	Solid Waste Management Unit
SWP .....	Special Work Permit
SZ .....	Support Zone
TA .....	Technical Area
THA .....	Task Hazard Analysis
TLD .....	Thermoluminescent Dosimeter

TLV ..... Threshold Limit Value  
TWA ..... 8-Hour Time-Weighted Average

---

## 1.0 PROJECT INFORMATION

### 1.1 PROJECT SCOPE

The scope of this project is to remove PCB contaminated soil originating from the former power transformer TA-33-124. This scope will be accomplished using the SPV 500, or other vacuum truck. The SPV 500 is a large vacuum unit with an inline high efficiency particulate air (HEPA) filter mounted on a truck. All of the visible sediment on the concrete pad under the former location of the transformer and the surrounding asphalt parking lot will be removed using the vacuum and put directly into drums. The SPV 500 or other vacuum system has an attachment that makes it possible to transfer the soil directly from the vacuum to a drum. Before the soil has been removed BMP's may be installed to prevent migration of contaminated soil from the site. Once all of the soil has been removed the SPV 500 or equivalent will be decontaminated, this may be accomplished using a power sprayer. Samples of the waste in the drums will be collected and sent to an off-site analytical laboratory for waste characterization purposes.

This work will be NON-HAZWOPER due to the low concentrations of chemical detected and there is no potential for employee exposure to reach the regulatory limit. This decision is based upon the activity that is planned (i.e. vacuuming the soil), exposure potential, the characteristics of PCBs in soil, and the low concentrations of PCBs detected in the soil that is being cleaned up. (see attachment).

### 1.2 KEY PERSONNEL HAVING PROJECT H&S RESPONSIBILITY

PM	<u>Linda Fluk</u>	Phone/Pager <u>661-5229</u>
FTL	<u>Kristi Beguin</u>	Phone/Pager <u>661-5226/104-5176</u>
FAPL	<u>Warren Neff</u>	Phone/Pager <u>665-9259</u>
ER/ ESH-5 Rep.	<u>Trung Nguyen</u>	Phone/Pager <u>667-7905/996-1891</u>
ER/ ESH-1 Rep.	<u>John Elliott</u>	Phone/Pager <u>665-7461/104-6472</u>
Contacts:		
Operations	<u>Peter Bussolini</u>	Phone/Pager <u>667-0370</u>

### 1.3 RELEVANT SITE INFORMATION

#### 1.3.1 Site Description/History:

PRS C-33-001 is a non-HSWA site consisting of an area of PCB contamination originating from a former power transformer TA-33-124. This transformer, believed to be the source of contamination, was mounted over a concrete pad on the East side of building TA-33-114 at Main Site. It was installed in the 1950's and was replaced in 1992. No active leaks were noted during a LANL transformer assessment in September of 1985. The site is a concrete pad surrounded by a paved parking lot between adjacent buildings.



## 1.4 PROJECT EMERGENCY ACTION/RESPONSE PLAN

Incident/emergency action requirements, equipment, and supplies as specified below and shall apply to each task. Response to an incident or emergency shall occur according to section 9.0 of ER HASP, this section, and 29cfr1926.36 and/or 29cfr1926(l). In the event of an incident or emergency, the SSO will function as the site emergency/incident coordinator, as necessary, and will arrange for the immediate notification of LANL emergency response personnel to take control of the scene and/or arrange for immediate notification of the appropriate authorities. Site will be posted with emergency contacts and routes to emergency routes to medical services including the Los Alamos ER and ESH-2 occupational medicine health clinic.

- **Site access is by:** Air and road
- **First-Aid/CPR** At least one field team member who is properly trained in first-aid and CPR must be present during site activities occurring at sites where emergency responders (e.g., fire department) are not within 4 minutes travel distance (access time). Designated primary first-aid providers Kristi Beguin, Robert Monsalvie-Jones, Scot Wimer, Elmer Alcon, or Dale Lyons. Only qualified providers will be allowed to render CPR and first aid.
- **Communications:** A cellular telephone will be located on-site. If the work area is inside a designated clearance area then a landline will be available if a cellular telephone is not allowed into the area.
- **Fire Extinguishing Equipment:** 10lb ABC will be kept on-site during the activity. Only fire extinguisher trained personnel will be allowed to use fire extinguishers.
- **Emergency Response Equipment:** Eye wash, First Aid Kit, BBP kit, will be available on site. Only first aid and bloodborne pathogens trained personnel will be allowed to use the first aid or bloodborne pathogen kits.
- **Facility Specific Training:** All personnel shall complete TA-33 facility specific training.
- **Muster area location:** Will be determined at the location.

## 1.5 PROJECT SPILL PLANS

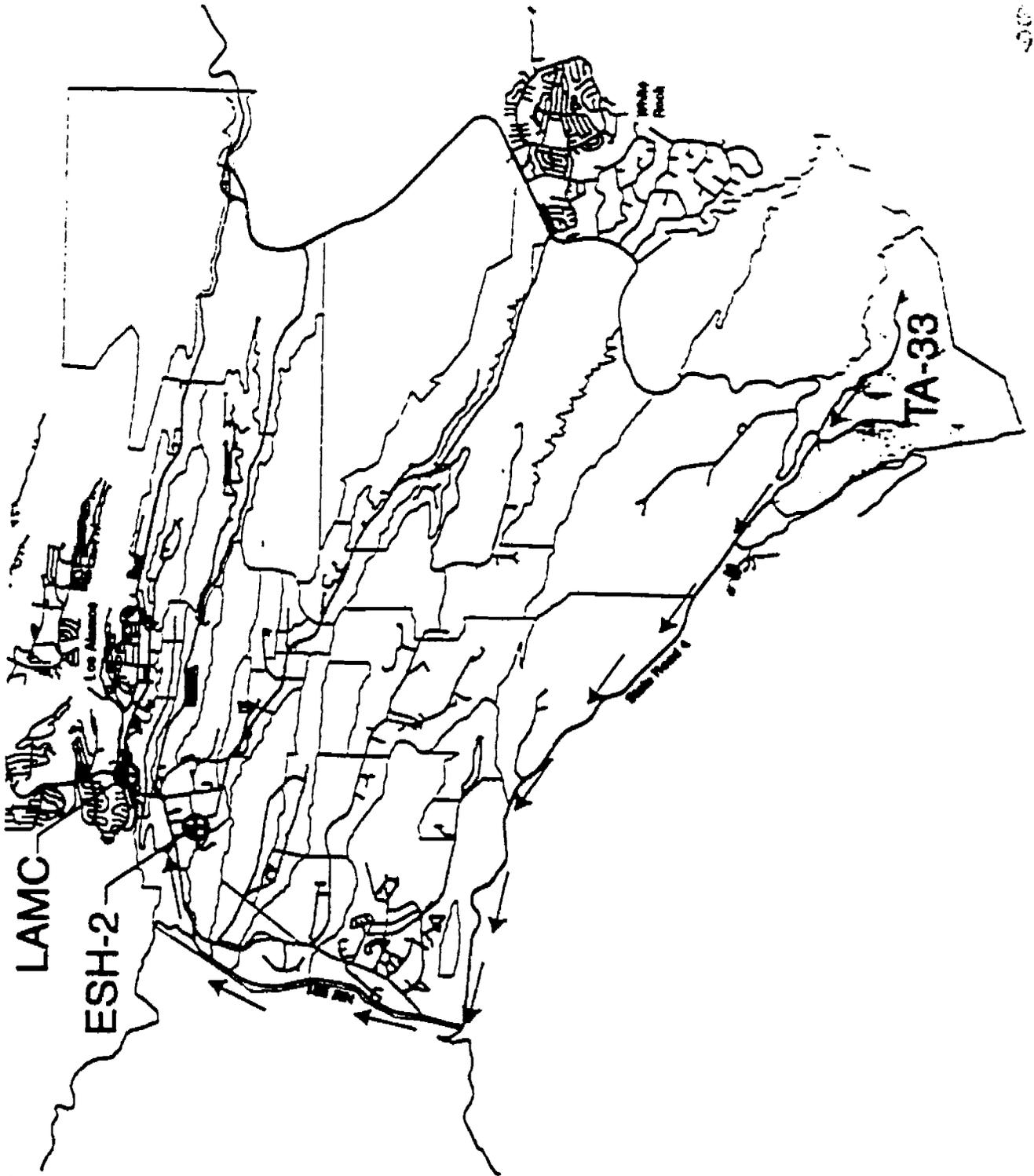
A spill kit will be maintained onsite. The TA-33 site SPCCP will be followed in case of a spill.

## 1.6 ADDITIONAL INSTRUCTIONS/PROCEDURES

- Only personnel that have received training in the operation and procedures of the SPV 500 will operate it.



# 1.8 Map of Emergency Route To Hospital/ESH-2 From Project Site



# HEAVY EQUIPMENT DAILY INSPECTION CHECKLIST

Field Unit: TA 57 SSHASP No. 25 Date: 11-16-77  
 Equipment Inspected: Tractor  
 Project Title: ACC 23-001 Project File: \_\_\_\_\_

Inspect all of the following for condition:	Comments
<input checked="" type="checkbox"/> Service brake (including trailer brake connection)	_____
<input checked="" type="checkbox"/> Parking system (hand brake)	_____
<input type="checkbox"/> Emergency stopping system (brakes)	_____
<input checked="" type="checkbox"/> Tires (check tread for wear and holes)	_____
<input checked="" type="checkbox"/> Horn	_____
<input checked="" type="checkbox"/> Steering mechanism	_____
<input checked="" type="checkbox"/> Coupling devices	_____
<input checked="" type="checkbox"/> Seat belt	_____
<input type="checkbox"/> Operating devices	_____
<input checked="" type="checkbox"/> Safety devices	_____
<input checked="" type="checkbox"/> Lights	_____
<input checked="" type="checkbox"/> Reflectors (if necessary)	_____
<input checked="" type="checkbox"/> Windshield wipers	_____
<input checked="" type="checkbox"/> Defroster (if necessary)	_____
<input checked="" type="checkbox"/> Fire extinguisher (20lb)	_____

Deficiencies/Corrective Actions  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Completed by \_\_\_\_\_  
(Print Name) (Title) (Signature)

✓ denotes good working order  
 □ denotes a deficiency  
 \* All defects shall be corrected before the vehicle is placed in service

Copyright © 1977 by National Safety Council



Hearing Protection Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Hearing Protection Available?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Employee Participating in Hearing Conservation Program?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
If not, Should Employee Participate in the Hearing Conservation Program?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

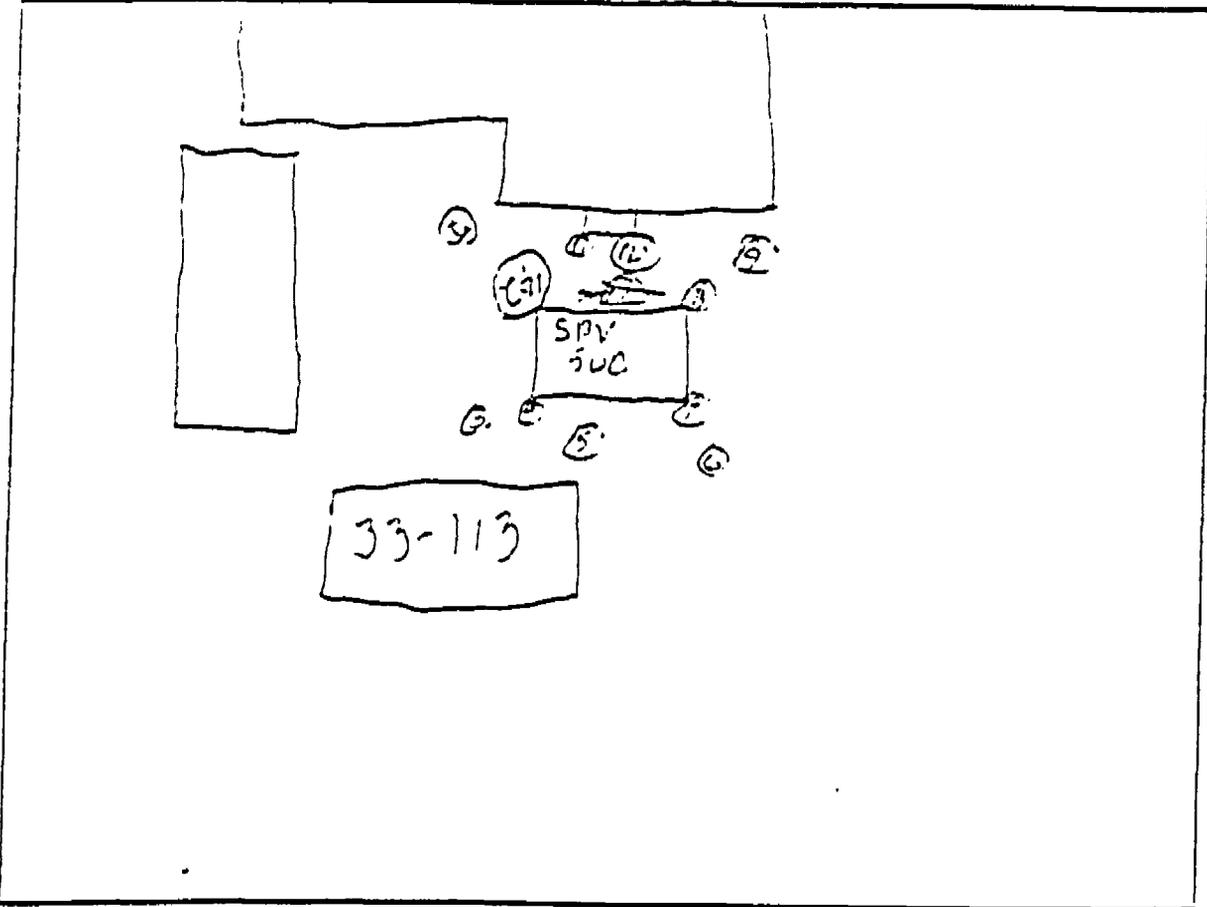
Microphone:  Pressure  Free Field

Calibration Performed Pre?  Yes  No Post?  Yes  No

Correction (db): 0

Site Diagram:

*Not to scale*



DAILY SAFETY INSPECTION CHECKLIST

ATTACHMENT 9-1

OU TA 93 SSHASP No. 255  
Project Title 11-01-90

Date 9 15 90

SITE CONTROL

- Site map posted on site
- Site Work zones identified
- Use of a buddy system
- Site communication
- Is the site secure from unauthorized entry?

ENGINEERING CONTROL, WORK PRACTICES, AND PPE

- Site hazards posted
- PPE properly selected
- Is there adequate PPE on site?
- Employees properly trained for PPE
- Do employees know how to don and doff PPE?
- PPE properly used
- PPE maintenance and storage
- PPE decontamination
- Limitations on equipment O&M or equipment equipment properly used
- Decontamination and personal hygiene procedures followed

SANITATION

- Toilet facilities available
- Hand and face washing available
- Potable water provided and labeled safe for drinking
- Non-potable water labeled not safe for drinking or washing

MONITORING

- Air monitoring conducted
- Review of previous monitoring maintained on site
- Is additional lighting provided when needed?

ILLUMINATION

EMERGENCY RESPONSE

- Site security and control
- Evaluation routes and procedures posted
- Emergency medical treatment and first aid procedures posted

Completed by Scott D. Smith

(Print Name)

(Title)

(Signature)

Scott D. Smith

1/1/92

ATTACHMENT 9-3

PPE INSPECTION CHECKLIST

OU      TA 33 SSHASP No. 255  
Project Title LEH (11/11/94)

Date 9/15/94

N/A Determine if the PPE has expired (if applicable).

Visually inspect the inside and outside of the material for:

- Imperfect seams
- Non-uniform coatings
- Tears
- Malfunctioning closures
- Punctures
- Worn areas or abrasion
- Missing parts
- Damaged parts
- Etched or scratched lenses
- Pinholes around fingers of gloves

Flex the material and check the inside and outside for:

- Cracks
- Shelf deterioration
- Non-uniform flexibility

Check for degradation by looking and feeling for:

- Discoloration
- Swelling
- Stiffness

Check stock quantity of PPE:

- Gloves
- Straps
- N/A Boots/bootties

Completed by Gerrit Wimmer 9476  
(Print Name) (Title)

[Signature]  
(Signature)

PPE INSPECTION CHECKLIST

Los Alamos National Laboratory  
**ENVIRONMENTAL RESTORATION (ER)**  
**SITE-SPECIFIC HEALTH & SAFETY PLAN (SSHASP) MODIFICATION**

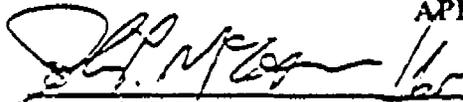
Project Name: Best Management Practice (Interim Actions): PRS-33-008(c)

SSHASP Name: Debris Removal and Erosion Control

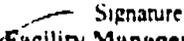
SSHASP No.: 246 Mod. #: 1

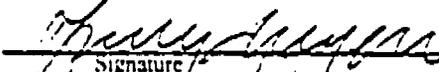
This SSHASP Modification modifies and/or supplements the associated SSHASP. Copies of this Modification are to be readily accessible for review onsite by individuals who may be exposed to hazards resulting from work conducted under the scope of this document. Personnel performing work under the scope of this Modification are required to sign the LANL ER Work Authorization and Health & Safety Briefing Acknowledgement page signifying that they are aware of the information documented herein and will abide by requirements of all applicable H&S plans to eliminate or lessen the risk of injury or illness from exposure to the identified hazards.

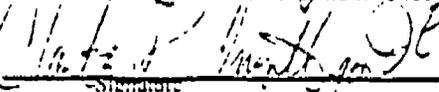
**APPROVALS / CONCURRENCE**

  
 Signature Name/Title Warren Neff EM/ER LANL Group Date 8-19-99  
 Focus Area Project Leader Approval

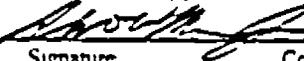
  
 Signature Name/Title Scott Wimer IT Company Date 8/19/99  
 IT H&S Responsible Line Manager Approval

  
 Signature Name/Title Peter Bussolini EML-25 LANL Group Date  
 Facility Manager Concurrence

  
 Signature Name/Title Trung D. Nguyen ESH-5 LANL Group Date 8/19/99  
 ER/ESH-5 Representative Concurrence

  
 Signature Name/Title John Elliott ESH-1 LANL Group Date 8/19/99  
 ER/ESH-1 Representative Concurrence

Comments of the above reviewers have been incorporated as stipulated or resolved with written record and copy to the respective reviewer.

Robert Monsalve-Jones  IT Corp. Aug 19, 99 M892 661-5217  
 Preparer's Name Signature Company/LANL Group Date Mailstop Phone

Los Alamos National Laboratory  
**ENVIRONMENTAL RESTORATION (ER)**  
**SITE-SPECIFIC HEALTH & SAFETY PLAN (SSHASP) MODIFICATION**

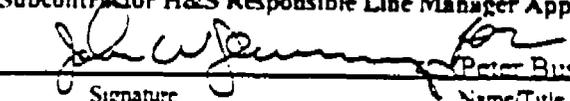
Project Name: Best Management Practice (Interim Actions): PRS-33-008(c)

SSHASP Name: Debris Removal and Erosion Control

SSHASP No.: 246 Mod. # 1

This SSHASP Modification modifies and/or supplements the associated SSHASP. Copies of this Modification are to be readily accessible for review onsite by individuals who may be exposed to hazards resulting from work conducted under the scope of this document. Personnel performing work under the scope of this Modification are required to sign the LANL ER Work Authorization and Health & Safety Briefing Acknowledgement page signifying that they are aware of the information documented herein and will abide by requirements of all applicable H&S plans to eliminate or lessen the risk of injury or illness from exposure to the identified hazards.

**APPROVALS / CONCURRENCE**

Signature	Warten Neff	EM/ER	
Focus Area Project Leader Approval	Name/Title	LANL Group	Date
	Scott Wimer	IT	5/12/99
Subcontractor, H&S Responsible Line Manager Approval	Name/Title	Company	Date
	Linda Fluk	IT	5/10/99
Subcontractor H&S Responsible Line Manager Approval	Name/Title	Company	Date
	Peter Bussolini	EM/ES	8/16/99
Facility Manager Concurrence	Name/Title	LANL Group	Date
N/A			
Operations Management Concurrence	Name/Title	LANL Group	Date
	Trung D. Nguyen	ESH-5	
ER/ESH-5 Representative Concurrence	Name/Title	LANL Group	Date
	John Elliott	ESH-1	
ER/ESH-1 Representative Concurrence	Name/Title	LANL Group	Date

## LANL ER WORK AUTHORIZATION AND HEALTH & SAFETY BRIEFING ACKNOWLEDGEMENT

The individuals who sign this acknowledgement are authorized by their respective health and safety responsible line manager (who has signed approval of this SSHASP Modification) to perform the tasks identified within the scope of this SSHASP Modification.

Project Title: Best Management Practice (Formerly Interim Actions): PRS-33-008(c)

SSHASP Name: Debris Removal and Erosion Control SSHASP No.: 246 Mod. #: 1

TA(s)/Location(s): TA-33

Briefing conducted by:

R. Monahan-T Health Physicist IT 11874  
Printed Name Title Employer or LANL Group Z Number

[Signature] 8-23-99  
Signature Date

I acknowledge that I understand this SSHASP Modification, including the hazards related to performing this work and the ways I can eliminate the hazards or protect myself from injury or illness on the job.

NAME	EMPLOYER/GROUP	Z NUMBER	SIGNATURE/DATE
<u>Flora Wilson</u>	<u>IT</u>	<u>119637</u>	<u>[Signature]</u> <u>8-23-99</u>
<u>Dale Lunn</u>	<u>IT</u>	<u>115899</u>	<u>[Signature]</u> <u>8/23/99</u>
<u>Tom Karl</u>	<u>IT</u>	<u>106717</u>	<u>[Signature]</u> <u>8-23-99</u>
<u>Louis Romero</u>	<u>IT Corp</u>	<u>110604</u>	<u>[Signature]</u> <u>8/24/99</u>
<u>S. H. Linnell</u>	<u>IT</u>	<u>116412</u>	<u>[Signature]</u> <u>8/24/99</u>
<u>Tom Karl</u>	<u>IT</u>	<u>106717</u>	<u>[Signature]</u> <u>8-23-99</u>
<u>Flora Wilson</u>	<u>IT</u>	<u>119637</u>	<u>[Signature]</u> <u>8-31-99</u>

## 1. Purpose:

The purpose of this modification is to update and provide personnel changes from the original site-specific health and safety plan (SSHASP). Changes are given below in Table 1 of this SSHASP Modification.

Table 1 Site-Specific Health and Safety Plan Modifications		
Location	Old Text	New Text
Cover Page, Project Name	Interim Actions	Best Management Practices
Page 1, Interim Actions	Interim Actions	Best Management Practices
Page 1, Interim Actions section, 1 <sup>st</sup> sentence	Interim Actions	Best Management Practices (BMS)
Page 3, section Hazard Controls: Chemical, 3 <sup>rd</sup> sentence	If found, it will be segregated...	If found, it may be segregated...
Page 3, section Hazard Controls: Radiological, 1 <sup>st</sup> sentence	....administrative trash.	....appropriate container.
Page 4, PPE:	Cotton coveralls,	Cotton coveralls or equivalent,
Page 4, section Task 2: Erosion control, 1 <sup>st</sup> sentence	...ground surface of the culvert, ...	...ground surface on the banks surrounding the culvert....
Page 6, Table 3-1, FTL	Kristi Begun	Elmer Alcon
Page 6, Table 3-1, SSO	Kristi Begun	Scott Wimer
Page 6, Table 3-1, RCT	Rich Baker	Tom Karl
Page 6, Table 3-1, Alternate SSO	Russ Johnson	Robert Monsalve-Jones
Page 8, Table 10	ESH-10 All Worker Memo	Delete row
Emergency Contacts and Phone Numbers: FTL	Kristi Begun	Elmer Alcon

Further clarification or additions are incorporated into this SSHASP 2246.

- 1) The H&S Responsible Line Manager Approval is changed to Scott Wimer.
- 2) HWSA is defined as Hazardous Waste Site
- 3) The data used to make the negative determination is included to this Modification #1 as an attachment to this document. The data include the soils analysis data from PRS-33-008(e) and the Marlow equation results from the SGS ThermoRetec SGS Uranium Separation Project.
- 4) Under the section **Hazard Analysis**, sub-section **Biological**: change to the following:

Biological: Hanta Virus, Bloodborne Pathogens, Snakes, and Insect bites. HAR of Minor. Incident very likely to occur but if it could result in irreversible damage. Refer to IT/ICF Kaiser Bloodborne Pathogen Program.

- 5) Under the section **Hazard Analysis**, sub-section **Physical**: add the following:  
Lifting and carrying equipment and materials resulting in reversible injury. . HAR of Minor.
- 6) Under the **Hazards Controls** section add the following:

**Safety:** A daily tailgate safety meeting will be held.  
Workers will be aware of sharp objects and only handle using work or leather gloves. Proper lifting techniques will be employed for the task. Lifting techniques will be reviewed during the tailgate safety meeting. Two man or "buddy" lifting techniques will be reviewed during the tailgate safety meeting.

**Physical:** All site workers and visitors will be warned of site hazards including slips, trips and falls in the work area. All workers will be observant of surface and location of where they are working.  
Lighting - Whenever lightning is spotted or thunder heard work will be suspended and field team members will seek shelter.  
Heat stress monitoring will be instituted when outside temperatures exceed 85 degrees Fahrenheit and workers are in level "C" or higher PPE and /or performing moderate or heavy work. Appropriate breaks to cool down and liquids will be provided. The IT/ICF Heat Stress Monitoring Program in the ICF ER Health and Safety Manual will be followed.  
Sunburn. Skin protection (sunblock) will be provided to all members of the field team. Hats are encouraged for head protection.

**Biological:** Inform personnel to stay away from areas that may contain mouse droppings. If droppings are noticed contact facility coordinator and building manager to complete cleanup. Personnel will be briefed to stay away from areas that snakes and other animals may inhabit. Personnel that may perform 1<sup>st</sup> Aid/CPR will be bloodborne Pathogen trained in accordance with ICF/IT BBP program.

**Chemical:** Nuisance and total dust - dust suppression methods will be employed if visible dust is encountered.

## MEDICAL/RADIOLOGICAL SURVEILLANCE

- Bloodborne Pathogens: Any occupational exposure; 29CFR 1910.1030 (f) for first-aid/ CPR responders only.
- Fitness for duty statement or physicians statement (annual physical).

- 7) Add a section "Emergency Response" and the following statement:

SSHASP No.: 246 Mod. No.: 1

THA 1-2

August 19, 1996

Task: Debris Removal and Emission Control

Incident/emergency action requirements and supplies will be available for the task. Response to an incident or emergency will follow Section 9.0 of ER HASP or the IT/CF-ER HASP. The emergency route to Los Alamos Medical Center will be on site during the task.

- 8) Add a section "Administrative Controls" with the following:
- Notify EHS-1 prior to the start of field operations.
  - Applicable LANL LIRs/LPRs/ LIGs/ ARs will be determined on job specific basis:
  - 401.10 .01.0 – Stop Work and Restart
  - 402.100.01.0 – Signs , Labels , Tags
  - 201.00.04.0 – LANL Incident Reporting Process
  - Daily tailgate safety meeting required.
  - Intermittent coverage by a site safety officer (SSO) required.

Los Alamos National Laboratory  
**ENVIRONMENTAL RESTORATION (ER) SHORT FORM**  
**SITE-SPECIFIC HEALTH & SAFETY PLAN (SSHASP)**

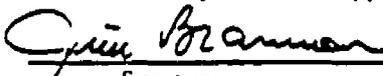
Project Name: Interim Actions, PRS-34-008 (c)

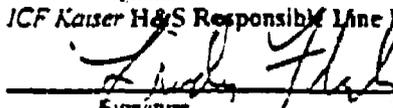
Location(s): TA-33 SSHASP no. 246

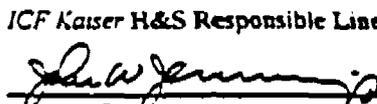
The LANL ER Health and Safety Plan (HASP) supplements this SSHASP and shall be complied with as applicable. Copies of the HASP and this SSHASP are to be readily accessible for review onsite by individuals who may be exposed to hazards resulting from work conducted under the scope of this SSHASP. Personnel performing work under the scope of this SSHASP are required to sign the LANL ER Work Authorization and Health & Safety Briefing Acknowledgement page signifying that they are aware of the hazard information documented herein and will abide by requirements of these plans to eliminate or lessen the risk of injury or illness from exposure to the identified hazards.

**APPROVALS / CONCURRENCE**

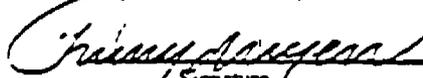
	<u>John McCann</u>		
Signature	Name/Title	LANL Group	Date
Focus Area Project Leader Approval			

	Jim Brannon	ICF Kaiser	3/29/99
Signature	Name/Title	Company	Date
ICF Kaiser H&S Responsible Line Manager Approval			

	Linda Fluk	ET Corp ICF Kaiser	3/24/99
Signature	Name/Title	Company	Date
ICF Kaiser H&S Responsible Line Manager Approval			

	Peter Bussolini	EMUSE	3/30/99
Signature	Name/Title	LANL Group	Date
Facility Manager Concurrence			

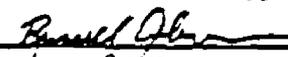
Signature	Name/Title	LANL Group	Date
Operations Management Concurrence			

	Trung D. Nguyen		4/12/99
Signature	Name/Title	ESH-5	Date
ER/ESH-5 Representative Concurrence			

	John Elliot		4/22/99
Signature	Name/Title	ESH-1	Date
ER/ESH-1 Representative Concurrence			

\* [Add/delete signature lines as necessary to address all affected parties H&S. Only H&S responsible line managers of personnel implementing this SSHASP sign in approval; all others sign in concurrence.]

Comments of the above reviewers have been incorporated as stipulated or resolved with written record and copy to the respective reviewer.

<u>Russell Johnson</u>		ET Corp ICF Kaiser	4/21/99		
Preparer's Name	Signature	Company/LANL Group	Date	Mailstop	Phone
			3/30/99	M892	661-5254

ICF Kaiser

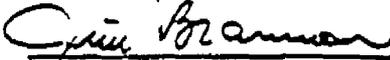
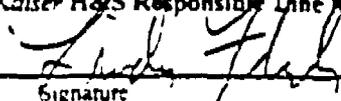
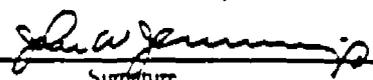
Los Alamos National Laboratory  
**ENVIRONMENTAL RESTORATION (ER) SHORT FORM**  
**SITE-SPECIFIC HEALTH & SAFETY PLAN (SSHASP)**

Project Name: Interim Actions PRS-33-008 (c)

Location(s): TA-33 SSHASP no. 246

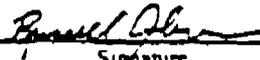
The LANL ER Health and Safety Plan (HASP) supplements this SSHASP and shall be complied with as applicable. Copies of the HASP and this SSHASP are to be readily accessible for review onsite by individuals who may be exposed to hazards resulting from work conducted under the scope of this SSHASP. Personnel performing work under the scope of this SSHASP are required to sign the LANL ER Work Authorization and Health & Safety Briefing Acknowledgement page signifying that they are aware of the hazard information documented herein and will abide by requirements of these plans to eliminate or lessen the risk of injury or illness from exposure to the identified hazards.

**APPROVALS / CONCURRENCE**

	John McCann	<u>ER</u>	<u>4-2-99</u>
Signature	Name/Title	LANL Group	Date
Focus Area Project Leader Approval			
	Jim Brannon	ICF Kaiser	<u>3/29/99</u>
Signature	Name/Title	Company	Date
ICF Kaiser H&S Responsible Line Manager Approval			
	Linda Fluk	ICF Kaiser	<u>3/24/99</u>
Signature	Name/Title	Company	Date
ICF Kaiser H&S Responsible Line Manager Approval			
	Peter Bussolini	<u>EMUSE</u>	<u>3/30/99</u>
Signature	Name/Title	LANL Group	Date
Facility Manager Concurrence			
*Operations Management Concurrence			
Trung D. Nguyen			
Signature	Name/Title	ESH-5	Date
ER/ESH-5 Representative Concurrence			
John Elliott			
Signature	Name/Title	ESH-1	Date
ER/ESH-1 Representative Concurrence			

*\* [Add/delete signature lines as necessary to address all affected parties H&S. Only H&S responsible line managers of personnel implementing this SSHASP sign in approval, all others sign in concurrence.]*

Comments of the above reviewers have been incorporated as stipulated or resolved with written record and copy to the respective reviewer.

Russell Johnson		<u>IT Corp</u>	<u>3/30/99</u>	<u>M892</u>	<u>661-5264</u>
Preparer's Name	Signature	Company/LANL Group	Date	Mailstop	Phone

## **Interim Actions: PRS 33-008 (c)**

This PRS and related activities are described in the "Draft Interim Action (IA) Plan for PRS 33-008 (c) and AOC C-33-001, TA-33" (December 1998). This SSHASP describes safety concerns and controls addressing two tasks at PRS 33-008c. The tasks are to be done sequentially and have similar hazards and safety controls; therefore, both tasks are addressed within this SSHASP. The work is described as non-intrusive. Erosion has exposed a section of debris just below the PRS, which is a drainage culvert approximately 70 foot long, containing soil and miscellaneous debris from historical processing operations from the main area.

### **Site Controls**

The work zone will be administratively controlled. The SSO or FTL is responsible for site access. Any visitors will be under escort. A CRZ will be established only if personnel are found with radiological contamination. For these consecutive tasks, an SSO is not required on site full time but will perform the tailgate health and safety briefings and intermittently monitor task progress as needed.

Facility Tenant Agreements for these tasks have been reviewed and are in place.

See Attachment for site map.

### **Emergency Response**

See Attachment for Emergency Call-Outs. At a minimum, at least one person will be current in CPR and First Aid training, including use of bloodborne pathogen kits.

### **Working Alone**

If an activity will be conducted by working alone the individual may work alone in accordance with LANL AR 1-8 Working Alone, and LIR 300-00-02.0 Documentation of Safe Working Practices. The individual must notify his or her line manager of an estimated return time. The individual must also carry some form of communication if working in a remote area in case of emergency such as a cellular phone or two-way radio. Phone numbers for emergency response will be carried by the individual.

Note: Many technical areas have security concerns regarding radio communications. Contact the facility manager before using cellular phones or two-way radios in security-controlled areas.

### **Training Requirements**

See Attachment (as Table 10)

SSHASP # 246

### Task 1: Pick up and Remove Debris

Miscellaneous debris will be picked up and removed out of the drainage channel and immediate area in the PRS, either by hand or shallow-depth shovel.

Based on previously obtained soil analysis data, IT Group makes a negative determination for lead. Debris will be centrally stored on-site in labeled containers as indicated below, as determined by the facility manager. This task is not expected to affect other LANL operations, employees, or tasks. If the ground will be penetrated in excess of 6 inches in depth, an approved LANL Excavation Permit will be required before beginning work.

#### **Hazard Analysis :**

##### **Chemical: minor hazard**

Although this is a non-HSWA site, previous analyzed soil samples (1996 Phase I) from this area indicated the presence of cadmium, chromium, mercury, nickel, lead, and organic compounds in the soil. Maximum soil concentration levels were checked for each contaminant found in previous sample analyses. Levels found were far below exposure limits; therefore IT Corp makes a negative determination.

Some visible non-respirable lead may be encountered. However, mishap probability is low and if occurred could result in minor injury/illness.

##### **Radiological: minor hazard**

Minor uranium and trace tritium may be present in the soil in the culvert, and may also potentially contaminate debris. Mishap probability is unlikely, but if occurred could result in minor injury/illness.

##### **Biological: minor hazard**

Rattlesnakes – minor hazard in early spring to summer months. Mishap probability is low but if occurred could result in significant injury/illness.

Hanta Virus – minor hazard. Mishap probability from being exposed to field mice fecal material, urine, or nests depends on time of year, rainfall patterns, and mouse population density. Probability is generally low in spring, but if occurred could result in major injury/illness

Insect bites/stings – minor hazard. Mishap probability from being stung by bees or wasps, or bitten by spiders could occur from spring through summer, and if occurred could result in minor injury/illness.

##### **Physical: minor to major hazards**

Cold stress: moderate hazard in winter, minor hazard in spring. Mishap

probability depends on weather severity, and if occurred could result in moderate to major injury/illness.

Heat stress: minor hazard in late spring, moderate hazard in summer. Mishap probability depends on weather severity, and if occurred could result in moderate to major injury/illness.

Sunburn: minor hazard in spring to moderate hazard in summer. Mishap probability depends on time of year, and if occurred could result in minor injury.

Slips/trips/falls: minor hazard. Mishap is possible with culvert debris or area snow or ice, and if occurred could result in major injury/illness.

Sharp objects/cuts/abrasions: minor hazard. Debris may contain broken glass, sharp metal pieces or shards. Mishap probability is possible and if occurred could result in significant injury/illness.

Lightning strike: minor hazard in early spring, major hazard in late spring through summer especially in open mesa areas. Mishap probability depends on time of year and weather patterns, and if occurred could result in major to catastrophic injury/illness.

#### **Hazard Controls:**

##### **Chemical**

Any soil adhering to debris will be cleaned off as much as possible before being placed in trash containers (heavy plastic bags). Visible lead (non-respirable) may exist with the debris. If found, it will be segregated from other waste and stored on-site in an appropriately labeled container.

##### **Radiological**

All debris will be screened by trained personnel for radiological contamination (approved alpha and beta/gamma detecting instrumentation) before being placed in administrative trash. Debris will be surveyed for tritium by smear/swipe at the facility storage site by an RCT or HPT. Any radiologically contaminated debris (per Table 6.1 of the HASP) will be segregated from administrative waste and placed in an appropriately labeled radwaste container.

The area is not posted as radiologically controlled. However, personnel will monitor themselves for contamination using approved portable instruments according to Table 6.1 of the HASP. Action levels for personal contamination shall be any detectable contamination.

For chemical control, if airborne dust levels present a problem due to wind, dust suppression techniques such as wet misting of the ground will be used.

PPE: Level D as per task number 1.

Decon: as per task number 1.

0301 • 00000001 • 000

### 3.0 ORGANIZATION, RESPONSIBILITIES, and AUTHORITY

Definition of HS roles, responsibilities, authorities, and lines of communication for key personnel identified below are defined in Section 3 of the HASP.

TABLE 3-1 KEY PERSONNEL HAVING HS RESPONSIBILITY			
Title	Name	Organization	Phone/Pager
<b>Facility Contacts</b>			
Facility Manager (TA-33)	Peter Bussolinii	LANL	667-0370
Facility Operations Safety Personnel	Scott Alexander	LANL	665-1550
<b>Field Project Management</b>			
Focus Area Project Leader (FAPL)	John McCann	LANL	665-1091
Alternate to FAPL	Warren Neff	LANL	665-9259
Field Team Manager (FTM)	Linda Fluk	IT Corp	661-5229
<b>Field Team</b>			
Field Team Leader (FTL)	Kristi Begum	IT Corp	661-5226
Alternate FTL	Linda Fluk	IT Corp	661-5229
Supervisor (other, specify)			
Site Safety Officer (SSO)	Kristi Begum	IT Corp	661-5226
Radiological Control Technician (RCT)	Rich Baker	IT Corp	661-5271
Trenching/Excavation Competent Person (CP)	NA		
Trenching/Excavation - Registered Professional Engineer (PE)	NA		
Other (specify):			
<b>Support Personnel</b>			
Focus Area HS Representative	Trung Nguyen	ESH-5	667-7905
Subcontractor HS Management Rep.	Dan Seely	IT Corp	661-5266
Other (specify):	John Elliott	ESH-1	665-7461
<b>Alternate Personnel</b>			
Alternate SSO	Russ Johnson	IT Corp	661-5254
Alternate Health Physics Support:	Tara Kart	IT Corp	661-5201
<input type="checkbox"/> RSP <input checked="" type="checkbox"/> RCT <input type="checkbox"/> HPT			

## 6.0 EXPOSURE MONITORING AND CORRESPONDING ACTIONS

In accordance with Section 6 of the HASP, personnel exposure monitoring requirements, action levels, and the corresponding actions to be taken are specified in the tables in this section (Tables 6-1, 6-2, and 6-3) for each task or group of tasks having different requirements.

### 6.1 DIRECT-READING INSTRUMENTS

Requirements for exposure monitoring using direct-reading instruments and the corresponding action levels and response actions are specified in Table 6-1 for each task or group of tasks having different requirements, action levels or responses. These requirements, levels, and actions are set in accordance with Section 6 of the HASP. Any exceptions or deviations from requirements of the HASP are noted where applicable.

TABLE 6-1 DIRECT-READING INSTRUMENT REQUIREMENTS							
Hazardous Condition/ Substance	Task(s)	Instrument	Procedure	Location and Frequency of Monitoring	Action Level(s)	Response Action(s)	Action Level Rationale
<b>HEALTH PHYSICS</b>							
<input checked="" type="checkbox"/> Radiation Gross $\alpha$ and gross $\beta/\gamma$ contamination	1 and 2	<input checked="" type="checkbox"/> $\beta/\gamma$ Eberlin ESP-1 with HP-260 probe or equiv  <input checked="" type="checkbox"/> $\alpha$ -Ludlum 139 with air proportion at probe or equiv	Per LANL RadCon Manual, training and RSAA	<input type="checkbox"/> Drilling As sample barrel comes out of borehole, after sample barrel is opened and prior to sampling soil	> Background	Field team member trained in ESH-1 procedures performs surveys (soil, core, personnel, etc.) Intermittent ESH-1 coverage	Standard levels set by ESH-1
	1 and 2			<input type="checkbox"/> Surface Sampling/Excavations Excavated soil, ground surface prior to disturbance, and excavated soil/material	> Background	Large area swipes for $\alpha$ (2000 cm <sup>2</sup> ) counted using field alpha screening instrument, direct frisk for $\beta/\gamma$	
		1		Smears/Swipes	<input type="checkbox"/> Non Invasive Activities Ground surface near source (as applicable based on potential for soil contamination)	$\alpha$ < 500 cpm/probe area $\beta/\gamma$ < 5,000 cpm/probe area	Notify ESH-1 of elevated readings Dedicated field team member trained in ESH-1 procedures performs surveys (soil, core, personnel, etc.) Increased intermittent ESH-1 coverage $\alpha$ swipes counted using Ludlum 2000 tray counter or equiv; direct frisk for $\beta/\gamma$
<input checked="" type="checkbox"/> Personnel Intermittent and prior to exiting PRS	> Background		Work may only proceed according to approved RWYP and with fulltime onsite ESH-1 technician (or equiv) in accordance with Sections 3.2.4 and 3.3.3 of the HASP				
			<input checked="" type="checkbox"/> Equipment Prior to decon and for release				
			<input checked="" type="checkbox"/> Other: Representative tritium swipes of debris before administrative release				

## 10.0 TRAINING

Training requirements are specified below by job title for each task or group of tasks having different requirements. Personnel shall be trained in accordance with Section 10 of the HASP and as specified below. Any exceptions or deviations from requirements of the HASP are noted below. Personnel performing the roles indicated below shall have completed and have current documentation of the training specified. The SSO, or the FTL or JS, shall verify that personnel have met the training requirements prior to authorizing individuals to enter controlled zones of the work site.

**TABLE 10  
TRAINING REQUIREMENTS**

(Sup = Supervisors; CP = Competent Person for that subject, R = Read training; C = Classroom training; F = Field training; AN = As needed per the HASP or applicable regulatory requirement depending upon the intended duties of the personnel role; ER = Employer required)

(Othr = Other categories - atop the columns below, replace "Othr" using titles in Table 4-1 and note corresponding acronym(s) in this block. Delete extra columns and widen remaining columns. Use codes ("R", "C", "F") to specify task-specific requirements in blank boxes and boxes with "AN".)

Applicable Task(s): (Specify the training requirements for each personnel role identified in Tables 4-1 and 9 using the letter codes defined above. Repeat this row and specifications for each task or group of tasks for which different training is required. For the most part mandatory training typical of most HAZWOPER work has already been indicated below. Enter any other applicable training requirements specific to the indicated task(s))

Training Requirement	Personnel Role																		
	FPL	FIM	FTL	SSO	RCT	HPT	RSP	WK											
HASP	R	R	R	R	R	R	R	R											
SSHASP	R	R	R	R	R	R	R	R											
Pre-Job Start HS Briefing	AN	F	F	F	F	F	F	F											
Daily HS Tailgate Migs	AN	F	F	F	F	F	F	F											
TA-33 Site Training (provided by facility)	R	R	R	R	R	R	R	R											
General Employee Training (GET) - LANL provided only <i>(Required for anyone on site &gt; 10 consecutive work days)</i>	C	C	C	C	C	C	C	C											
ESH-13 AN Worker Memo	R	R	R	R	R	R	R	R											
Employer's Hazard Communication Program (29 CFR 1926.59(e))	R	R	R	R	R	R	R	R											

FPL (Field Project Leader - equivalent to FAPL, Focus Area Project Leader)

FIM (Field Team Manager)

FTL (Field Team Leader)

SSO (Site Safety Officer)

RCT (Radiation Control Technician)

HPT (Health Protection Technician)

RSP (Radiation/Contamination Screening Personnel)

WK (Worker or Team Member)

Applicable Task(s):		1 and 2																	
Training Requirement	Personnel																		
	FPL	FIM	FIL	SSO	RCI	IIPI	RSP	WK											
Health Physics Checklist Indoctrination	AN	AN	AN	AN	C	C	AN	AN											
Rad. Worker II	C	C	C	C	C	C	C	C											
40 hr. HAZWOPER	AN	C	C	C	C	C	C	C											
24 hr. Supervised Fieldwork	AN	F	F	F	F	F	F	F											
24 hr. HAZWOPER																			
8 hr. Supervised Fieldwork																			
8 hr. Annual Refresher	AN	C	C	C	C	C	C	C											
8 hr. HAZWOPER Supervisor																			
SSO				F/C															
Health Physics Personnel (per LANL Rad Protection Program and RSAA)					F/C	F/C													
Standard First Aid	AN	AN	AN	C	AN	AN	AN	AN											
Bloodborne Pathogens (29 CFR 1910.1030)				C	AN	AN	AN	AN											
CPR	AN	AN	AN	C	AN	AN	AN	AN											
PPE (per Section 7.1 of HASP)	AN	AN	AN	AN	AN	AN	AN	AN											
Fire Extinguisher Use (per 29 CFR 1920.150(c)(1)(xi))				C															
Fire Fighting Equipment (29 CFR 1920.150)																			
Hearing Conservation (Per Section 4.2.2.7 of HASP)																			
Respiratory Protection - Level C (Per Section 7.1 of HASP and 29 CFR 1910.134(b)(1) and (e)(2))																			
Respiratory Protection - Level B (Per Section 7.1 of HASP and 29 CFR 1910.134(b)(1) and (e)(2))																			
Level B Equip. Supvr (Per Site Specific SOP - Per Section 7.1 of HASP and 29 CFR 1910.134(b)(1) and (e)(2))																			

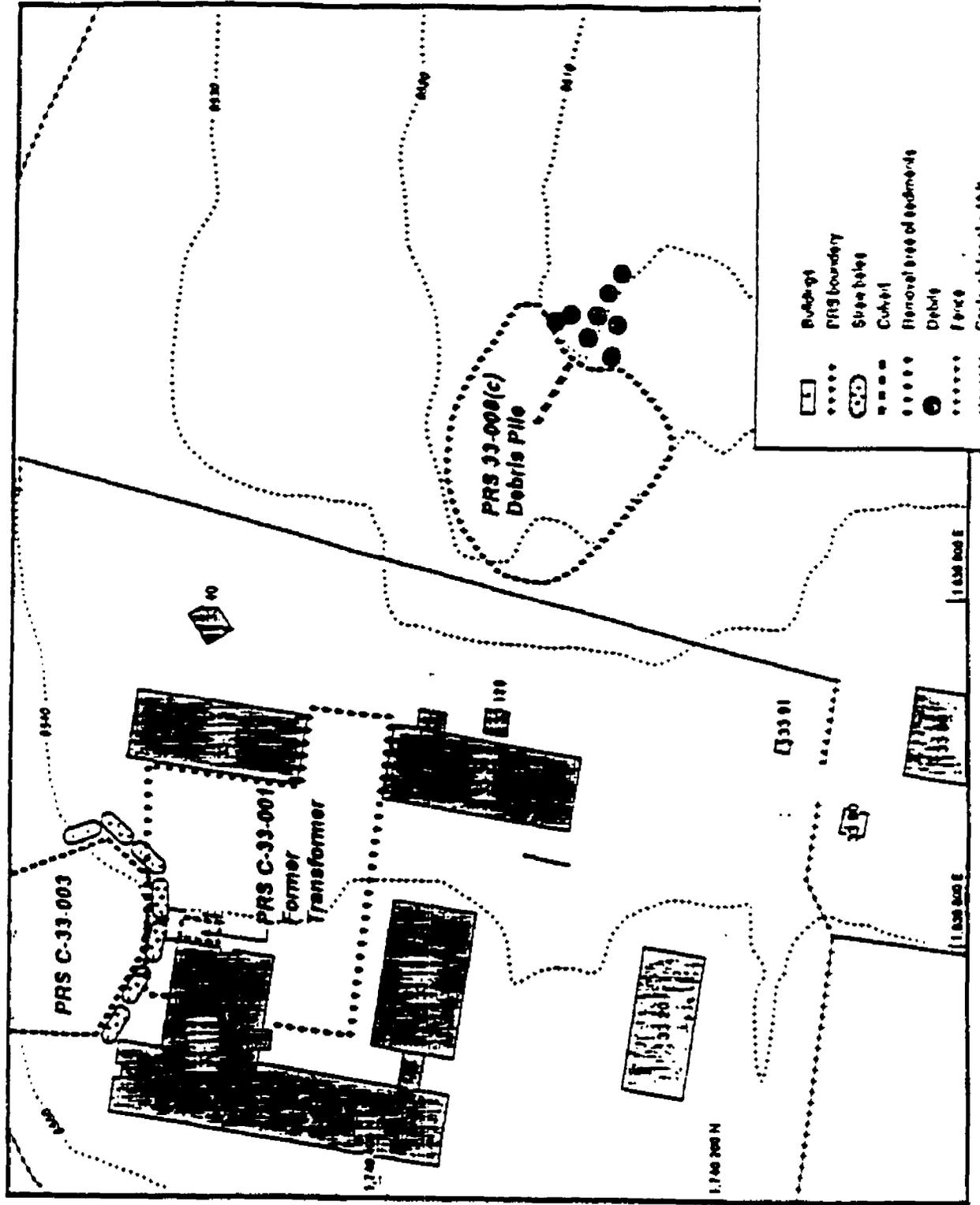
Applicable Task(s):	Personnel											
	FPL	FIM	FIL	SSO	RCT	DIPI	RSP	WK				
Training Requirement												
Plutonium Safety (LAW)												
Tritium Safety (LAW)												
Spot Test for High Explosives (HE) (contact DX or ESA Division)												
High Explosives (HE) Identification/Hazard Awareness Video (contact DX or ESA Division)												
RCRA Training												
DOT Training												
Sanitation (29 CFR 1926.51)												
Materials Handling, Storage, Use, Disposal (29 CFR 1926.250 and 252)												
Signs, Signals, Barricades (29 CFR 1926.209)	AN	R	R	R	R	R	R	R	R	R	R	
Traffic Flagging and Safety (29 CFR 1926.201)												
Stairways, Ladders (29 CFR 1926.1060(a) and 1033(b)(15) and 321(f))												
Tools - Hand and Power (29 CFR 1926.302(a)(1))	AN	R	R	R	R	R	R	R	R	R	R	
Excavation/Trenching Competent Person (29 CFR 1926.851(h)(1) and 321(f))												
Excavation/Trenching Protective Systems Competent Person (29 CFR 1926.852(a)(9) and 321(f))												
Confined Space Entry (per 29 CFR 1910.146(b))												
Confined Space Entry Supervisor (per 29 CFR 1910.146(g) and 321(f))												



Applicable Task(s): 1 and 2		Personnel																		
Training Requirement	FPL	FIM	FIL	SSO	RCI	IIFI	RSP	WK												
	Benzene (29 CFR 1926.1128)																			
Beryllium (LAML-AR 6-7)																				
Cadmium (29 CFR 1926.63)																				
Formaldehyde (29 CFR 1926.1110)																				
Lead (29 CFR 1926.62)																				
Vinyl Chloride (29 CFR 1926.1117)																				
Other (specify): Rad Screening Personnel (per RSAA)							CT													

Applicable Task(s): I and 2												
Training												
Requirement	IFL	FIM	FIL	SSO	RCT	IIPI	RSP	WK	Personnel			
Benzene [29 CFR 1926.1128]												
Beryllium [LAML-AR 6.7]												
Cadmium [29 CFR 1926.03]												
Formaldehyde [29 CFR 1926.1148]												
Lead [29 CFR 1926.02]												
Vinyl Chloride [29 CFR 1926.1117]												
Other (specify): Rad Screening Personnel (per RSA)										CT		

# ATTACHMENT A.



# EMERGENCY CONTACTS AND PHONE NUMBERS

(post on-site in Support Zone)      SSHASP 246

## MEDICAL EMERGENCY/FIRE:

Los Alamos Fire Dept. LANL      phone: 911  
Cellular phone: 667-7080

## HAZARDOUS RELEASE/SPILL:

LANL HAZMAT Team (EM&R) ..... 667-6211

LANL Occupational Medicine Clinic (ESH-2) ..... 667-0660  
Los Alamos Medical Center Hospital ..... 662-4201  
Security OS/Pro Force ..... 667-6534  
Los Alamos Police ..... 662-8224  
LANL Health and Safety - ESH-5 ..... 665-7221  
Focus Area HS Rep.: Trung Nguyen ..... 667-7905 / 996-1891  
LANL Radiation - ESH-1 ..... 667-7137  
LANL Health Physics-ESH-1: John Elliott ..... 665-7467 / 699-4055  
TA-33 Facility Manager: Peter Bussolini ..... 667-0370  
FAPL: John McCann, EM/ER ..... 665-1091  
Alternate FAPL: Warren Neff ..... 665-9259  
FTM: Linda Fluk ..... 661-5229  
FTL: Kristi Begun, ..... 661-5200/cell 699-1015

## Management Contacts:

IT Corp Contacts: P. Scott Den-Baars, ER-PM / 662-1200

Dan Seely, Tech Mgr., acting H&S Mgr./ 661-5266

## EMERGENCY REPORTING INFORMATION:

When calling for emergency services, have the following information available to report:

- Site name/location/phone #
- Number of personnel involved
- Caller ID
- Name and condition of affected employees
- Nature of emergency
- Actions taken, and assistance required

LANL HAZMAT Team (EM&R) ..... 667-6211





