Information Concerning Angled Boreholes Associated with Past Environmental Investigations at Technical are 39

Results of Water Level Measurements 05-05-2009

Results of manual water level measurements in boreholes at TA-39-001(a) and 39-001(b)

Δ = depth

Date: 5/19/2009

Personnel: John Archuleta, Graydon Anderson

Top of Column measured

Site	Borehole	Diameter (inches)	Orientation	Water present?	TOC (ft)*	TD(ft)*	Comments
39-001(a)	DM-4	4	vertical	no	-	24.94	
	ASC-0	2	45°	yes	82.77	83.25	
	ASC-2	2	45°	yes	74.47	82.97	
	ASC-3	2	45°	-	-	-	PVC pipe cut by heavy equipment
	ASC-4	2	45°	yes	81.77	83.26	
39-001(b)	DM-6	4	vertical	no	-	61.80	
	ASC-11	2	45°	no	-	82.58	
	ASC-12	2	45°	yes	82.09	82.55	
	ASC-13	2	45°	yes	79.19	83.27	
	ASC-14	2	45°	yes	83.36	83.51	
	ASC-15	2	45°	yes	52.75	83.90	
	ASC-16	2	45°	yes	81.11	82.95	
	ASC-17	2	45°	yes	83.54	83.83	
	ASC-18	2	45°	yes	81.33	83.85	
	ASC-19	2	45°	yes	81.30	81.43	

* Heights for angled boreholes are "slant heights," measured by sighting water level tape along the top of the casing

Not representative of GW:

Draft Figures of SWMUs 39-001(a) and 39-001(b)

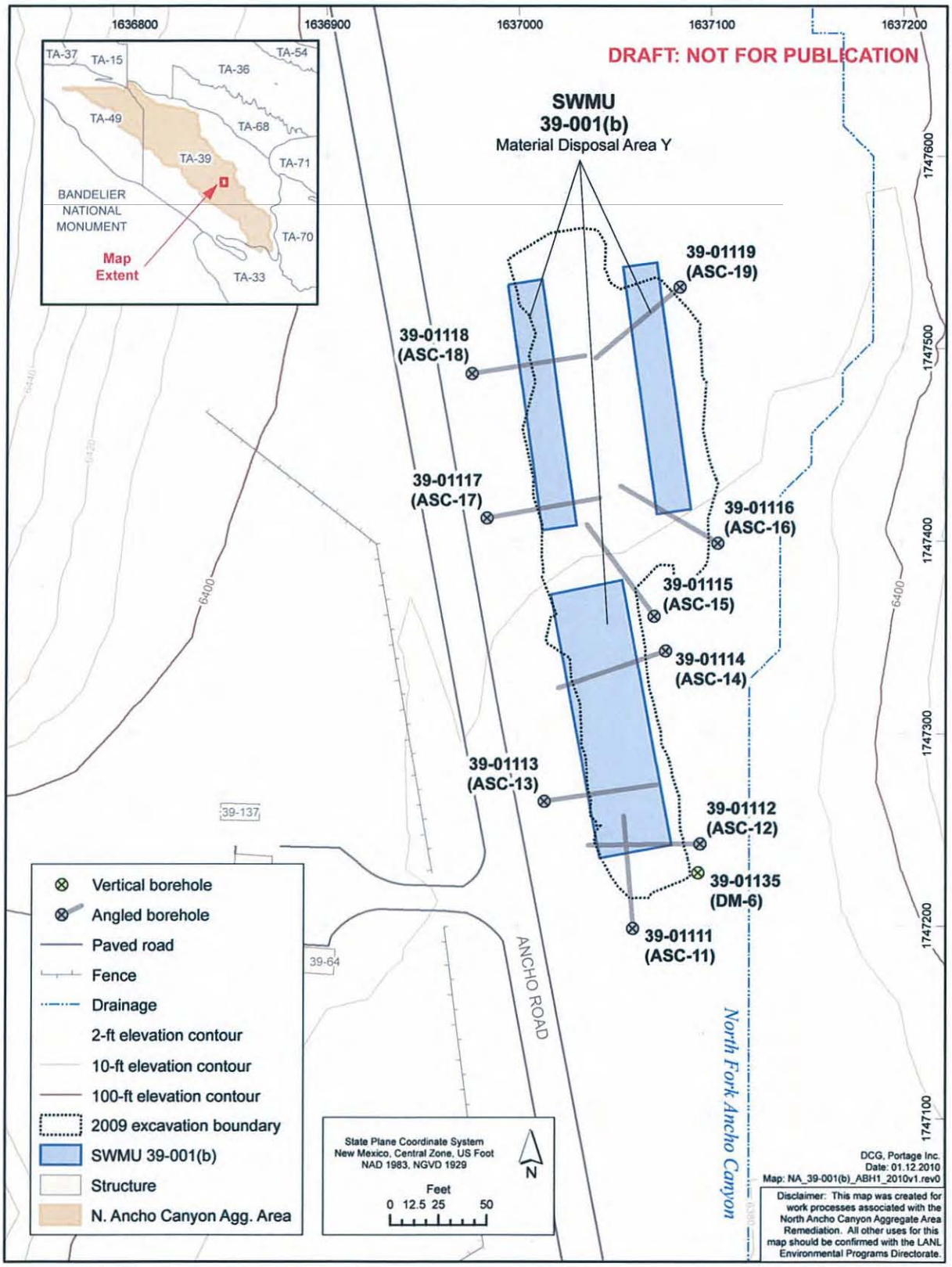
DRAFT: NOT FOR PUBLICATION
SWMU
39-001(b)
Material Disposal Area Y
39-01119
(ASC-19)
39-01118
(ASC-18)
39-01117
(ASC-17)
39-01116
(ASC-16)
39-01115
(ASC-15)
39-01114
(ASC-14)
39-01113
(ASC-13)
39-01112
(ASC-12)
39-01135
(DM-6)
39-01111
(ASC-11)
1636800
1636900
1637000
1637100
1637200
1747600
1747500
1747400
1747300
1747200
1747100
6400
39-137
39-64
ANCHO ROAD
North Fork Ancho Canyon
TA-37
TA-15
TA-54
TA-36
TA-49
TA-68
TA-39
TA-71
BANDELIER
NATIONAL
MONUMENT
TA-70
Map
Extent
TA-33
Vertical borehole
Angled borehole
Paved road
Fence
Drainage
2-ft elevation contour
10-ft elevation contour
100-ft elevation contour
2009 excavation boundary
SWMU 39-001(b)
Structure
N. Ancho Canyon Agg. Area
State Plane Coordinate System
New Mexico, Central Zone, US Foot
NAD 1983, NGVD 1929
Feet
0 12.5 25 50
N
DCG, Portage Inc.
Date: 01.12.2010
Map: NA_39-001(b)_ABH1_2010v1.rev0
Disclaimer: This map was created for work processes associated with the North Ancho Canyon Aggregate Area Remediation. All other uses for this map should be confirmed with the LANL Environmental Programs Directorate.

Figure X.X-X

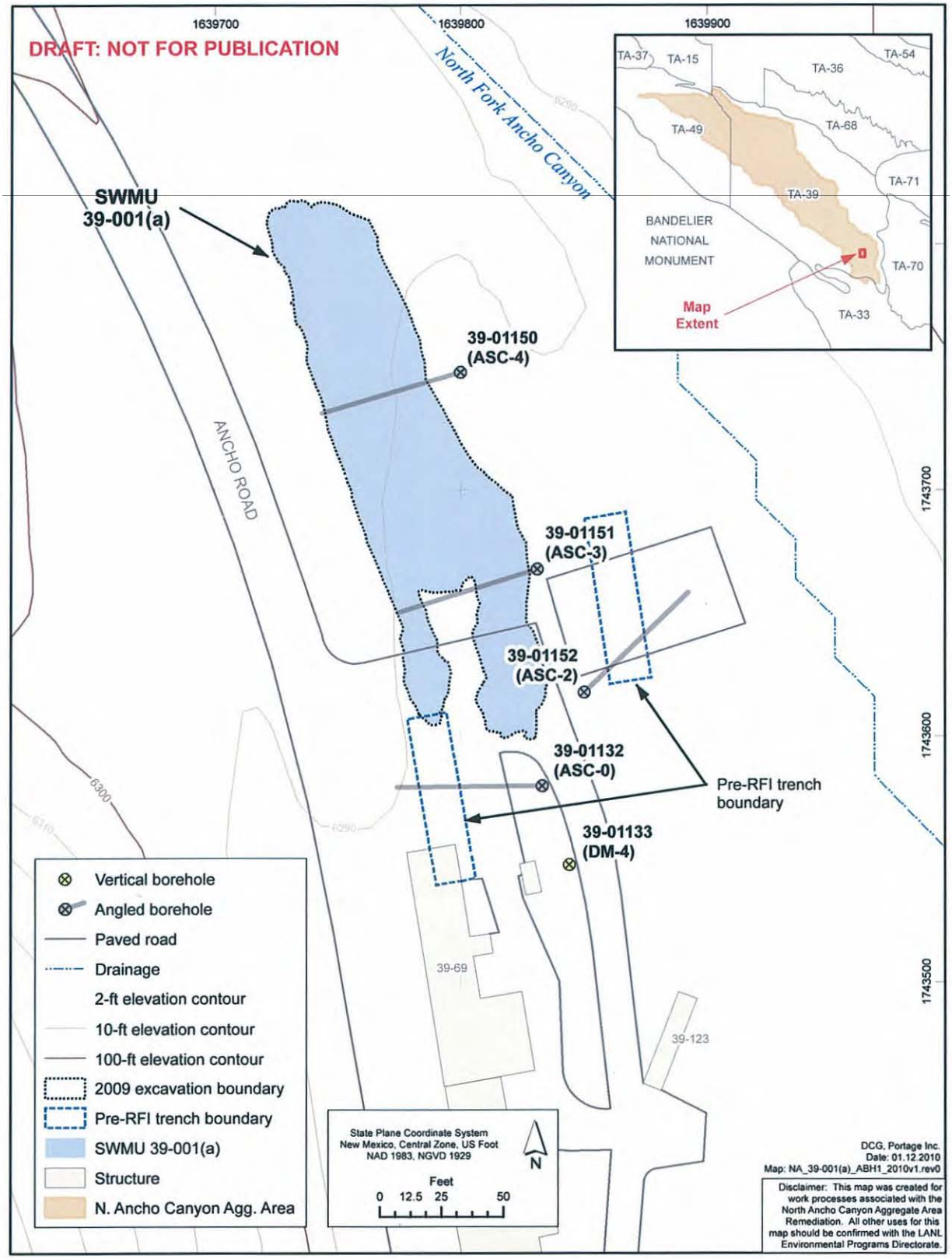
DRAFT: NOT FOR PUBLICATION
1639700
1639800
1639900
North Fork Ancho Canyon
SWMU
39-001(a)
39-01150
(ASC-4)
39-01151
(ASC-3)
39-01152
(ASC-2)
39-01132
(ASC-0)
39-01133
(DM-4)
Pre-RFI trench
boundary
ANCHO ROAD
1743700
1743600
1743500
6300
6290
39-69
39-123
TA-37
TA-15
TA-54
TA-36
TA-49
TA-68
TA-71
TA-39
BANDELIER
NATIONAL
MONUMENT
TA-70
Map
Extent
TA-33
Vertical borehole
Angled borehole
Paved road
Drainage
2-ft elevation contour
10-ft elevation contour
100-ft elevation contour
2009 excavation boundary
Pre-RFI trench boundary
SWMU 39-001(a)
Structure
N. Ancho Canyon Agg. Area
State Plane Coordinate System
New Mexico, Central Zone, US Foot
NAD 1983, NGVD 1929
N
Feet
0 12.5 25 50
DCG, Portage Inc.
Date: 01.12.2010
Map: NA_39-001(a)_ABH1_2010v1.rev0
Disclaimer: This map was created for work processes associated with the North Ancho Canyon Aggregate Area Remediation. All other uses for this map should be confirmed with the LANL Environmental Programs Directorate.

Figure X.X-X

1994 Field Season Report For Field Unit 2, TA-39

Ltr 682-7510
Comments given on May 24.

1994 Field Season Report for FU2, TA-39 (OU 1132)

Introduction

The 1994 sampling program was designed to determine if contamination was leaking from two Potential Release Sites (PRSs), designated as PRS 39-001(a) and 39-001(b). No penetration of the actual waste disposal areas was to occur. Drilling was conducted at TA-39 from May 27 to September 21, 1994. This drilling program was modified from the one described in the RFI Workplan for Operable Unit 1132, June 1993. How Modified?

Previous investigations conducted at these PRS locations included surface radiation surveys performed from September 8 to September 23, 1993, and Surface geophysical surveys performed September 7 through September 17, 1993.

PRS 39-001(a) is thought to consist of two buried Material Disposal Areas (MDAs) that were in operation from 1953 to approximately 1979. However, interpretation of the surface geophysical survey for this PRS indicated a different location for only one buried MDA pit, and did not indicate the presence of waste at the historically designated locations (Figure 1). The sampling program for this PRS was designed to investigate potential migration from three areas, the two historically designated pit locations, and the area interpreted to contain waste as identified by the surface geophysical survey.

PRS 39-001(b) encompasses three known, and possibly a fourth buried MDA pit. This PRS is also designated as MDA-Y. This MDA was in operation from approximately 1979 to 1989. Interpretation of the location of buried waste material from the surface geophysical survey agreed quite well with the historically designated pit locations (Figure 2).

Samples for laboratory analysis were collected using the following three methods:

- **Surface samples** (0 to 6 inch depth) were collected using stainless steel bowls and spoons, following LANL-ER-SOP-06.09, *Spade and Scoop Method for Collection of Soil Samples.*

- **Shallow subsurface samples** (6 inch to 3 foot depth) were collected by hand auger, in accordance with LANL-ER-SOP-06.10, *Hand Auger and Thin-Wall Tube Sampler.*

- **Deep subsurface samples** (greater than 3 feet depth) were collected by means of a drill rig with hollow stem auger and core-barrel tool, in accordance with LANL-ER-SOP-06.26, *Core Barrel Sampling for Subsurface Earth Materials.*

Drilling and Sampling Activities

PRS 39-001(a)

Field activities at PRS 39-001(a) began May 27, 1994, and consisted of collecting surface, subsurface and deep subsurface samples. Surface samples were collected at three locations, designated as S-29, S-30 and S-31. Subsurface samples were collected by hand auger, to a depth of three feet at the same locations as the surface samples (S-29 to S-31).

Deep subsurface samples were collected by drilling five 45 degree angle boreholes, each approximately 80 feet in length, to investigate the possibility of contaminant migration from beneath the base of the three suspected MDA pit locations. The designations for these boreholes are Angle Sample Core (ASC)-0 through ASC-4. These boreholes were cased with 2 inch diameter PVC casing to prevent collapse of the borehole, and to facilitate borehole geophysical

logging. One borehole, ASC-1, was abandoned when the casing broke during installation. Although this borehole could not be used for geophysical logging, the samples recovered were sent for laboratory analysis. An offset borehole, ASC-0 was drilled and cased for geophysical logging, to replace ASC-1.

Four vertical boreholes were drilled to a depth of approximately 40 feet in locations likely to intercept downgradient subsurface contaminant migration, if present. In addition, two vertical boreholes were drilled to a depth of 15 feet to investigate an anomaly suggested by the surface geophysical survey of the site. The designations for these boreholes are Sample Core (SC)-5 through SC-10. These boreholes were not cased, and the cuttings generated during drilling were returned to the borehole.

Three additional boreholes were completed as monitor wells, designated as Downgradient Monitor-Basalt (DMB-1), and Downgradient Monitor (DM-2) and DM-4. The locations for DMB-1 and DM-2 were chosen to intercept potential subsurface migration of groundwater for the entire canyon site operations occurring upgradient. Monitor well DM-4 was installed to measure water flow and potential contaminant migration in a clean, well sorted, pumice gravel deposit, discovered during drilling of ASC-0 and ASC-1, that would provide an excellent subsurface conduit for such flow if present. DMB-1 was hollow stem auger drilled to a depth of 119 feet, where refusal occurred. A diamond shoe core barrel was advanced 5 feet into bedrock to confirm that it was the expected basalt layer. Figure 1 shows the locations of boreholes and sampling at PRS 39-001(a).

Samples for laboratory analysis were collected at 5 foot intervals for all vertical boreholes. Samples for laboratory analysis were collected at 10 foot intervals for all 45 degree angle boreholes.

PRS 39-001(b)

Field activities at PRS 39-001(b) began July 26, 1994, and consisted of collecting surface, subsurface and deep subsurface samples. Surface samples were collected at nine locations, designated as S-20 through S-28. Subsurface samples were collected by hand auger.

Hand auger samples were collected to a depth of three feet at the same locations as the surface samples(S-20 to S-28).

Deep subsurface samples were collected by drilling nine 45 degree angle boreholes, each 80 feet in length, to investigate beneath the base of the three MDA-Y pit locations. The designations for these boreholes are Angle Sample Core (ASC)-11 through ASC-19. These boreholes were cased with 2 inch diameter PVC casing to prevent collapse of the borehole, and to facilitate geophysical logging.

Three additional vertical boreholes were drilled, two of which were completed as monitor wells, designated as Upgradient Monitor (UM-3), and Downgradient Monitor (DM-6). The third borehole, DM-5 was abandoned when the desired strata of investigation was not intercepted. The location for UM-3 was selected to provide upgradient subsurface groundwater information for the buried MDAs. The location for DM-6 was chosen to intercept potential subsurface migration of groundwater for MDA-Y. Figure 2 shows the locations of boreholes and sampling at PRS 39-001(b).

Samples for laboratory analysis were collected at 5 foot intervals for all vertical boreholes. Samples for laboratory analysis were collected at 10 foot intervals for all 45 degree angle boreholes.

Conclusions

There was no evidence discovered during this investigation to indicate that contamination is currently migrating from either PRS 39-001(a) or PRS 39-001(b). Evidence does exist, however, for possible migration pathways and perched aquifer zones. At PRS 39-001(a), a clean, well sorted pumice gravel deposit was intercepted by ASC-0 and ASC-1. To further investigate this deposit, a monitor well, DM-4, was installed to a depth of 25 feet, and screened in the pumice. It is possible that this deposit would function similar to a "French drain" under storm event conditions.

The deepest monitor well drilled during this investigation was DMB-1. This monitor well was designed to penetrate the Bandelier Tuff to the underlying basalt unit. The basalt layer was encountered at a depth of 119 feet, where refusal of the hollow stem auger occurred.

To verify that the basalt had been reached, a 5 foot rock core was taken by advancing a diamond shoe core barrel. The basalt recovered was vesicular (exhibiting a structure of approximately 40% gas pocket cavities), and very fractured. The fracture surfaces appeared to be iron stained, and both the cavities and fractures exhibited some secondary mineralization and sediment infilling, an indicator that some water transport has occurred in the basalt.

Saturated conditions at PRS 39-001(b) were encountered during drilling of three 45 degree angle boreholes, ASC-15, ASC-16 and ASC-18. Attempts to locate a monitor well to intercept this saturated layer failed, due to interference from buried waste debris. The evidence from two of the angle borings suggests a buried stream channel sand deposit that could possibly be a perched aquifer beneath the waste pits.

Depth

There has been no appreciable water in any of the five monitor wells at TA-39. Consequently, no groundwater sampling has been done.

APPENDIX A

BOREHOLE INFORMATION

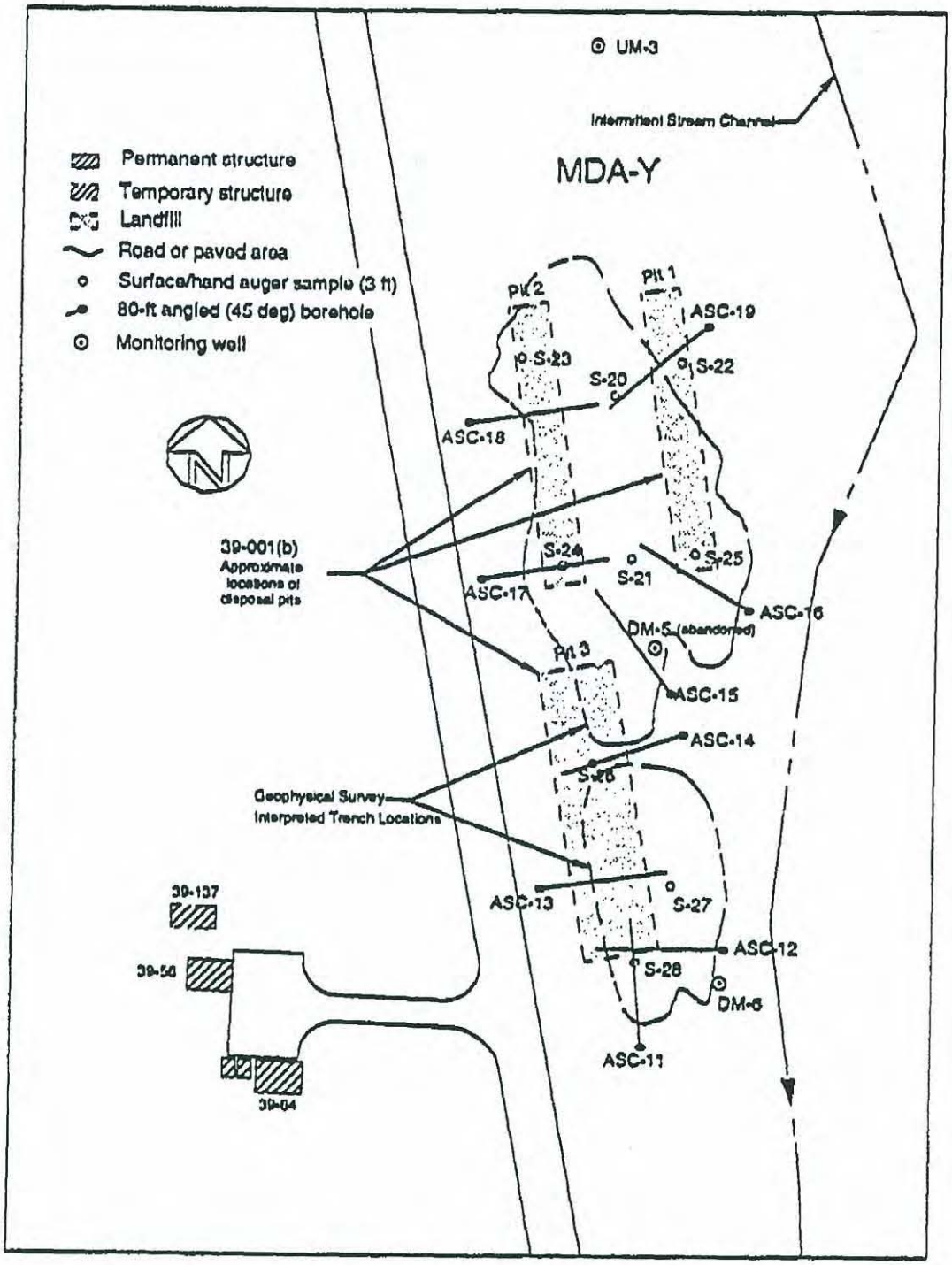

Figure 2 PRS 39-001(b) Approximate Sample and Borehole Locations

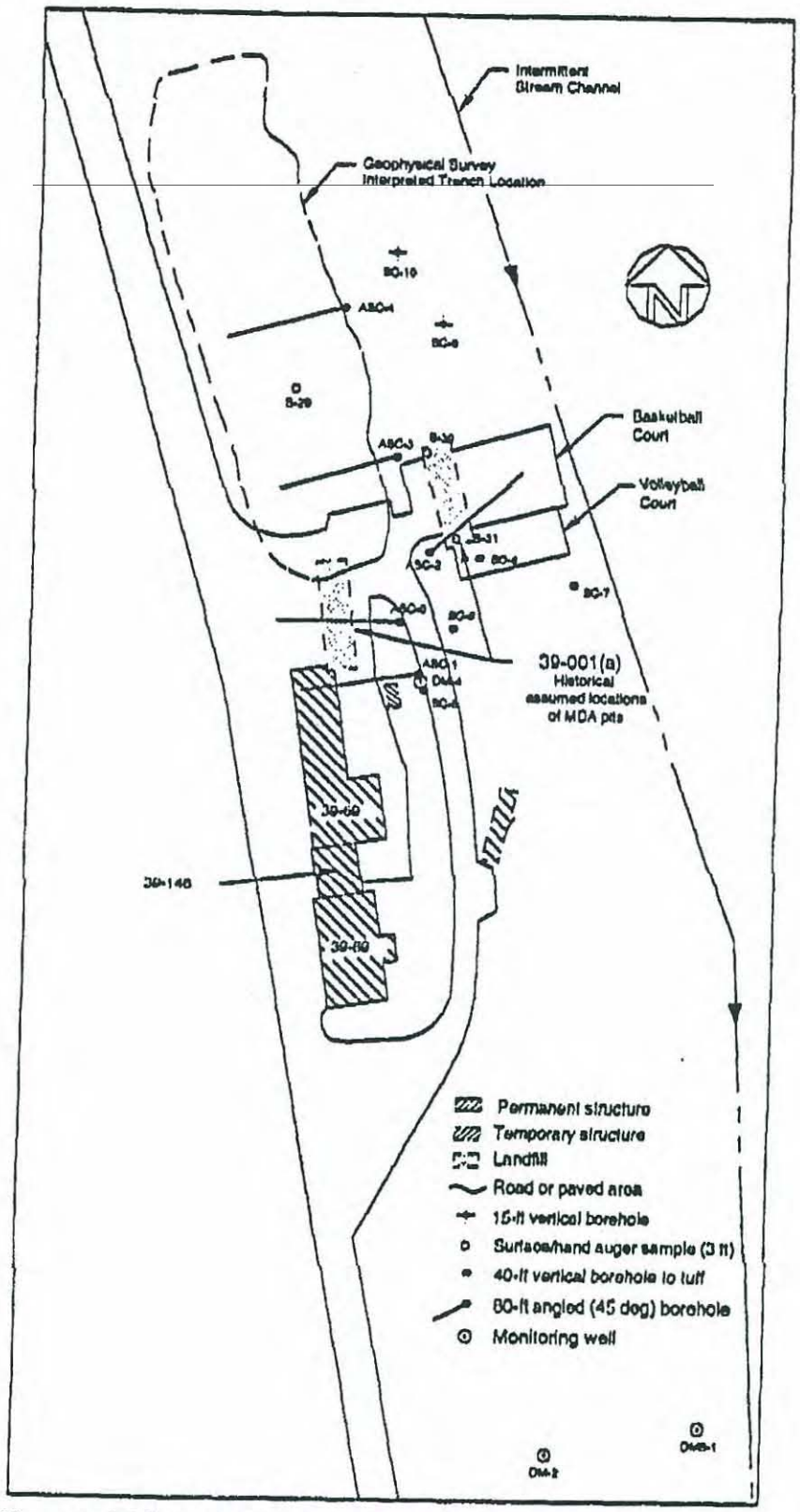

Figure 1 PRS 39-001(a) Approximate Borehole and Sample Locations

Los Alamos Environmental Restoration Records Processing Facility

ER Record I.D.# 62375

LOS ALAMOS NATIONAL LABORATORY
ENVIRONMENTAL RESTORATION
Records Processing Facility
ER Records Index Form

ER ID NO. 62375 *Date Received:* 3/23/98 *Processor:* TRW *Page Count:* 8

Privileged: (Y/N) N *Record Category:* P *Record Package No:* 302

FileFolder: ADDITIONS TO ESSINGTON RECORDS PACKAGE FOR RPF SUBMITTAL #ESSINGTON -4 RECORDS PACKAGE #302 SUBMITTAL #3/1994 FIELD SEASON REPORT FOR FU 2 TA -39 OU 1132

Correction: (Y/N) N *Corrected No.* 0 *Corrected By Number:* 0

Administrative Record: (Y/N) Y

Refilmed: (Y/N) N *Old ER ID Number:* 0 *New ER ID Number:* 0

Miscellaneous Comments:

N/A

THIS FORM IS SUBJECT TO CHANGE. CONTACT THE RPF FOR LATEST VERSION. (JUNE 1997)

Memorandum from Corinne Willison to T.E. Gould October 21, 1994

(3)

ICF KAISER

ICF KAISER ENGINEERS, INC.
1988 DIAMOND DRIVE
P.O. DOX 1220
LOS ALAMOS, NM 87544
505/661-5208
FAX: 505/661-5222

MEMORANDUM

To: T. E. Gould **Date:** October 21, 1994

From: Corinne P. Willison

Subject: **Amended Monthly Report for September 1994 for OU1132**

The sentences in **bold type** are the additions to the Monthly Report submitted on October 17, 1994.

PRS 39-001(b) - Landfill

The last three of the nine angle coreholes were drilled and cased. **Saturated soils were encountered in two of the angled coreholes (ASC-15 and ASC-18) at the 80-ft (45° angle) depth. It appears that a water zone may be located beneath the landfills, so attempts were made to find the water zone and construct a monitoring well.** An additional vertical corehole (DM-5) was drilled to 50 ft and samples were collected at 10 ft intervals. Since no saturated soils were found, the additional monitoring well (DM-6) was constructed downgradient from the landfills to a depth of 60 ft.

Attachment:

H. F. Grum, ICE KE
RPF MS M707
Project File 93069-028

ICF KAISER

ICF KAISER ENGINEERS, INC.
1988 DIAMOND DRIVE
P.O. BOX 1228
LOS ALAMOS, NM 87544
505/661-5288
FAX: 505/661-5222

MEMORANDUM

To: T. E. Gould **Date:** October 17, 1994

From: Corinne P. Willison

Subject: **Monthly Report for September 1994 for OU1132**

The drilling/sampling activities at PRS 39-001(a), PRS 39-001(b), and sampling of the stream channel at Ancho Canyon have been completed. Twenty-one coreholes and five monitoring wells were drilled and 282 samples were collected. Demobilization was conducted the last week of September. Geophysical logging of the coreholes still need to be completed.

PRS 39-001(b) - Landfill

The last three of the nine angle coreholes were drilled and cased. An additional vertical corehole was drilled to 50 ft and sub-surface samples were collected at 10 ft intervals. A monitoring well was constructed downgradient from the landfills to a depth of 60 ft.

Problems and Solutions

Several attempts were made to find a suitable location to drill a fifth monitoring well. The effort was to find a location that was clear of landfill debris and where saturated soils would be encountered. The location chosen did not have water (saturated soils) so the plan to develop a well (DM-5) at this location was abandoned, but the samples collected were submitted for analyses.

After a meeting with Brad Wilcox, Billie Wheat, Ed Essington, Ken Shisler, and myself, it was decided to drill the fifth monitoring well at a location downgradient (southeast) from the landfills and next to the stream channel. Again no (water) saturated soils were found during the drilling of the monitoring well (DM-5), but the decision was made to go ahead and construct the monitoring well anyway.

The depth to water of the five monitoring wells installed at PRS 39-001(a) and PRS 39-001(b) were investigated. No water was found.

Stream Channel Sampling

Seventeen locations along the stream channel were sampled. Thirty-four soil samples were collected from the banks and the channel, including 4 QA/QC samples.

INTERIM PROCEDURE

ER Record Return Form

Part I
(Completed by RPF)

The attached record(s) have been reviewed and determined to be incomplete for processing.

Originator Name Corinne P. Willison Date of Record 10/21/94

Organization ICF Kaiser Mail Stop M703

Date Returned to Originator 11/28/94 Please Return to RPF by 01/16/95

X 1. Incomplete (pages, attachments, or enclosures are missing).

___ 2. Not properly authorized (required signatures or initials are missing).

___ 3. Missing hard copy for machine-readable media.

___ 4. Incomplete records listing for records package. Information not properly identified.

___ 5. Document quality is poor; will not provide adequate image. If this is the "best available copy," return the document to the RPF.
Please initial _____ and date _____ here.

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Part II
(Completed by Originator)

Please take appropriate corrective action and return the record(s) and this form to the ER Records Processing Facility (RPF), MS M707.

Comments Attachment included
(Optional)

LANL-ER-AP-02.1.R1

Received by ER-RPF
DEC 05 1994
YEG

Los Alamos Environmental Restoration Records Processing Facility

ER Record I.D.# 45045

LOS ALAMOS

LOS ALAMOS NATIONAL LABORATORY
ENVIRONMENTAL RESTORATION
Records Processing Facility
ER Record Index Form
RPF USE ONLY

DATE RECEIVED: 12/05/94 PROCESSOR: YOA PAGE COUNT: 3

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PRIVILEGED Y/N: —

ELECTRONIC INDEX INITIALS:

MISCELLANEOUS:

This form is subject to change Indfrm 01/18/95

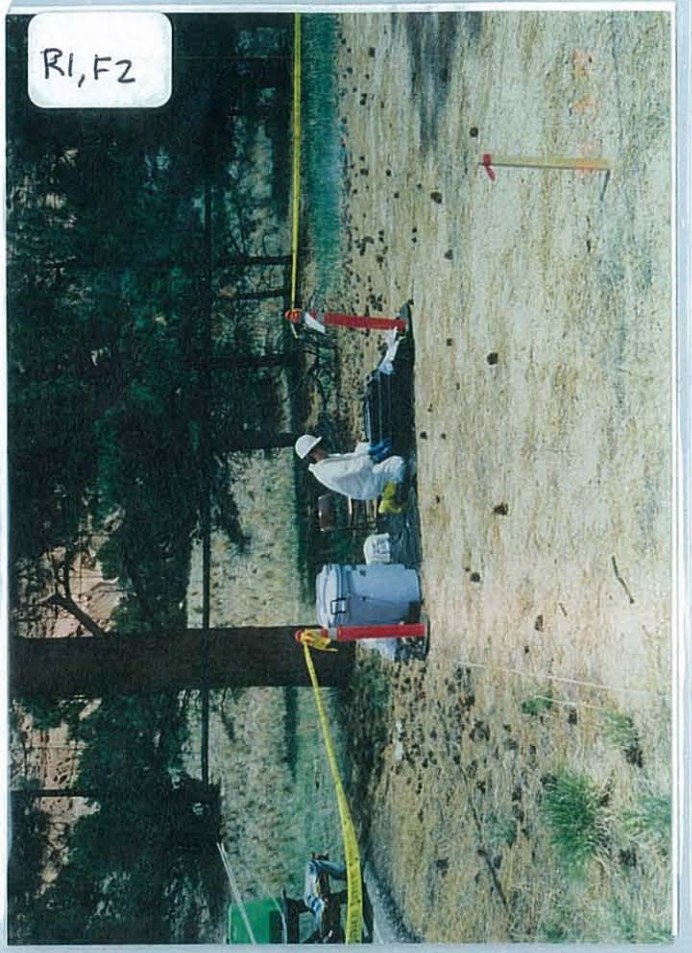
1994 Photographic Log and Photographs of Borehole Installations

'94 Photo Log

Frame No	Site	PRS Site	Location ID	Date	View Point	Assoc Sample ID	Field Stake No	Comments	Personnel
Roll 1									PANTEX ZOOM 90WR
1	TA39	39-001a	39-1146	19/May/94	S	--	SC-6	Vertical drilling at SC-6, across road from DM-4 and ASC-0.	S. Johnson, L. Gurule
2	TA39	39-001a	39-1146	19/May/94	SE	--	SC-6	Decon station operation, volleyball court area.	J. Ronquillo
3	TA39	39-001a	39-1146	19/May/94	SE	AAB0641	SC-6	Decon station operation, volleyball court area; decon of sample containers.	J. Ronquillo
4	TA39	39-001a	39-1146	19/May/94	SE	AAB0644	SC-6	Core inspection.	J. Ronquillo (Decon), W. Stevenson (SZ), L. Sandoval, D. Trujillo (SZ), P. Encinias, L. Gurule, B. Cole, S. Johnson.
5	TA39	39-001a	39-1146	19/May/94	N	--	SC-6	Support Zone; Core Trailer on Basketball Court.	--
6	TA39	39-001a	39-1146	19/May/94	N	--	SC-6	Extracting Core.	J. Ronquillo(Decon), W. Stevenson (SZ), K. Shisler (SZ), B. Cole, S. Johnson.
7	TA39	39-001a	39-1147	23/May/94	W	AAB0651	SC-7	Taking Surface Sample.	L. Sandoval, B. Cole
8	TA39	39-001a	39-1150	06/Jun/94	N	--	ASC-4	Drill Rig Set-up.	--
9	TA39	39-001a	39-1150	06/Jun/94	NW	--	ASC-4	Drill Rig Set-up.	--
10	TA39	39-001a	39-1151	08/Jun/94	N	--	ASC-3	Extracting Core.	J. Ronquillo, D. Trujillo, W. Stevenson, K. Shisler, B. Cole, M. Vallo.
11	TA39	39-001a	39-1151	08/Jun/94	S	--	ASC-3	Drilling.	C. Chamberlain, M. Vallo, J. Stewart, S. Johnson.
12	TA39	39-001a	39-1151	08/Jun/94	NW	--	ASC-3	ASC-3 Wellhead and Staging area for drummed cuttings from ASC-4.	--
13	TA39	39-001a	39-1151	08/Jun/94	SW	--	ASC-3	Decon of augers used at ASC-3.	L. Gurule.
14	TA39	39-001a	39-1151	08/Jun/94	S	--	ASC-3	Rad screening of Personnel out of EZ	D. Trujillo, B. Cole, L. Sandoval, W. Stevenson, K. Shisler.
15	TA39	39-001a	39-1151	08/Jun/94	S	--	ASC-3	Rad screening of Personnel out of EZ	D. Trujillo, B. Cole, W. Stevenson, K. Shisler, L. Sandoval.
25	TA39	39-001a	39-1152	13/Jun/94	NW	AAB0708	ASC-2	Field Activity.	D. Trujillo, P. Lucero, G. Baldonado, L. Gurule, C. Chamberlain, unknown.
26	TA39	39-001a	39-1152	13/Jun/94	NW	AAB0710	ASC-2	Drilling Operations.	P. Lucero, L. Gurule, W. Stevenson, G. Baldonado.
28	TA39	39-001a	39-1152	14/Jun/94	W	AAB0711	ASC-2	Sampling Core.	D. Trujillo, B. Cole. P. Ross, L. Sandoval, K. Shisler.
29	TA39	39-001a	39-1150	16/Jun/94	E	--	ASC-4	ASC-4 Wellhead.	--
30	TA39	39-001a	39-1151	16/Jun/94	E	--	ASC-3	ASC-3 Wellhead.	--
31	TA39	39-001a	39-1152	16/Jun/94	SW	--	ASC-2	ASC-2 Wellhead.	--
32	TA39	39-001a	39-1153	16/Jun/94	SW	AAB0720	ASC-1	Sampling Core.	D. Trujillo, L. Gurule, J. Stewart, L. Sandoval, P. Ross, K. Shisler.
33	TA39	39-001a	39-1153	21/Jun/94	W	AAB0724	ASC-1	Sampling and IH monitoring of Core.	D. Trujillo, B. Cole, L. Gurule, J. Stewart, P. Ross, K. Shisler.
34	TA39	39-001a	39-1153	21/Jun/94		AAB0726	ASC-1	Decon Area.	D. Trujillo, L. Sandoval. Photo Missing!
35	TA39	39-001a	39-1132	23/Jun/94		AAB0612	ASC-0	PCB Test Kit Screening.	D. Trujillo, P. Ross. Photo Missing!
36	TA39	39-001a	39-1122	29/Jun/94	SE	AAB0559	DMB-1	Opening Core Sampler.	L. Gurule.
Roll 2									
1	TA39	39-001a	39-1122	30/Jun/94	NW	AAB0566	DMB-1	Sampling Core.	P. Ross, D. Trujillo, J. Stewart, K. Shisler, G. Baldonado.
2	TA39	39-001a	39-1122	30/Jun/94	S	AAB0566	DMB-1	Sampling Core.	J. Stewart, P. Ross, D. Trujillo, K. Shisler, B. Cole.
3	TA39	39-001a	39-1122	30/Jun/94	S	AAB0566	DMB-1	Sampling Core.	P. Ross, D. Trujillo.
4	TA39	39-001a	39-1122	30/Jun/94	S	AAB0567	DMB-1	Sampling Core.	B. Cole, K. Shisler, D. Trujillo, P. Ross.
7	TA39	39-001a	39-1121	11/Jul/94	NW	AAB0531	DM-2	Photographing and sampling Core.	K. Shisler, L. Sandoval.
8	TA39	39-001a	39-1120	26/Jul/94	N	AAB0519	UM-3	Extracting Core.	D. Trujillo, L. Thurman, C. Chamberlain, B. Cole, K. Shisler.
9	TA39	39-001a	39-1104	28/Jul/94	S	--	--	Heat Stress Treatment.	P. Gomez, D. Trujillo, M. Walz.
10	TA39	39-001a	39-1120	28/Jul/94	E	AAB0523	UM-3	Taking Rinsate Sample.	G. Torres, J. Chamberlain, D. Trujillo.
11	TA39	39-001a	39-1120	28/Jul/94	E	AAB0523	UM-3	Taking Rinsate Sample.	G. Torres, J. Chamberlain.
12	TA39	39-001a	39-1112	09/Aug/94	E	AAB0426	ASC-12	Sampling Core.	L. Thurman.

Frame No	Site	PRS Site	Location ID	Date	View Point	Assoc Sample ID	Field Stake No	Comments	Personnel
13	TA39	39-001a	39-1112	09/Aug/94	SE	AAB0427	ASC-12	Extracting Core.	J. Stewart, C. Chamberlain, L. Thurman, L. Gurule, W. Stevenson, K. Shisler.
14	TA39	39-001a	39-1111	11/Aug/94	SSW	--	ASC-11	Drilling Operations.	J. Stewart, G. Baldonado, C. Chamberlain.
15	TA39	39-001a	39-1111	11/Aug/94	S	--	ASC-11	Extracting Core, HNU monitoring.	W. Stevenson, D. Trujillo, L. Gurule.
16	TA39	39-001a	39-1111	11/Aug/94	S	--	ASC-11	Decon Zone (Drilling Operations in background).	D. Trujillo, L. Gurule, J. Stewart, G. Baldonado, C. Chamberlain, L. Thurman.
17	TA39	39-001a	39-1111	11/Aug/94	S	--	ASC-11	Rad and HNU monitoring of Core sample.	K. Shisler, W. Stevenson, B. Cole, L. Gurule.
18	TA39	39-001a	39-1111	11/Aug/94	S	--	ASC-11	Rad screening of Core sample.	K. Shisler, B. Cole, W. Stevenson, D. Trujillo.
19	TA39	39-001a	39-1111	11/Aug/94	S	--	ASC-11	Photographing Core sample.	K. Shisler, D. Trujillo.
20	TA39	39-001a	39-1111	11/Aug/94	S	--	ASC-11	Decon of Core sampler tube.	L. Gurule.
21	TA39	39-001a	39-1114	17/Aug/94	N	--	ASC-14	Drilling and Decon operations.	L. Gurule, C. Chamberlain, J. Stewart.
24	TA39	39-001a	39-1115	19/Aug/94	N	AAB0455	ASC-15	Taking Sample.	L. Thurman.
25	TA39	39-001a	39-1115	22/Aug/94	N	--	ASC-15	Taking Sample.	L. Gurule, J. Stewart, B. Cole, K. Shisler.
26	TA39	39-001a	39-1115	23/Aug/94	S	AAB0464	ASC-15	Taking Sample.	J. Heiser, L. Gurule, J. Ronquillo.
27	TA39	39-001a	39-1115	23/Aug/94	N	--	ASC-15	Drill Rig.	--
Roll 3									
1	TA39	39-001a	39-1113	31/Aug/94	SW	--	ASC-13	Setting up Drill Rig at ASC-13, blocking road.	C. Chamberlain, J. Stewart, L. Gurule.
2	TA39	39-001a	39-1114	01/Sep/94	SE	--	ASC-14	ASC-14 Well head.	--
3	TA39	39-001a	Bldg. 56	01/Sep/94	SW	--	MDAY	Drum storage next to Bldg. 56.	--
4	TA39	39-001a	Bldg. 56	01/Sep/94	SW	--	MDAY	Drum storage next to Bldg. 56.	--
5	TA39	39-001a	MDAY	01/Sep/94	S	--	MDAY	Staging Area; moving Rig from ASC-13 to ASC-19.	J. Stewart.
6	TA39	39-001a	MDAY	01/Sep/94	N	--	MDAY	Water Truck, near ASC-13.	--
7	TA39	39-001a	MDAY	27/Sep/94	N	--	MDAY	Shed, ASC-17 Wellhead, Core Trailer.	--
8	TA39	39-001a	MDAY	27/Sep/94	NE	--	MDAY	ASC-13 Wellhead, Water truck, Support zone tent.	C. Chamberlain, G. Torres.
9	TA39	39-001a	MDAY	27/Sep/94	NE	--	ASC-15	Installing protective barrier around ASC-15.	L. Gurule, C. Chamberlain.
10	TA39	39-001a	MDAY	27/Sep/94	S	--	ASC-15	Installing protective barrier around ASC-15.	L. Gurule, C. Chamberlain.
11	TA39	39-001a	MDAY	27/Sep/94	S	--	ASC-11	ASC-11 Wellhead.	--
12	TA39	39-001a	--	27/Sep/94	NE	--	--	From basketball court, showing ASC-4 and ASC-3.	--
13	TA39	39-001a	--	27/Sep/94	SE	--	DMB-1	DMB-1 Wellhead.	--
14	TA39	39-001a	MDAY	27/Sep/94	N	--	ASC-19	ASC-19 Wellhead.	--
15	TA39	39-001a	--	27/Sep/94	SW	--	DM-2	DM-2 Wellhead.	--
16	TA39	39-001a	MDAY	27/Sep/94	E	--	MDAY	DM-6 and ASC-12 Wellheads, Drums, augers.	--
17	TA39	39-001a	Bldg.56	27/Sep/94	SE	--	--	TA39-56, Waste barrel storage area.	--
18	TA39	39-001a	--	27/Sep/94	SSW	--	--	Drill Rig leaving TA-39.	J. Stewart.


R1,F1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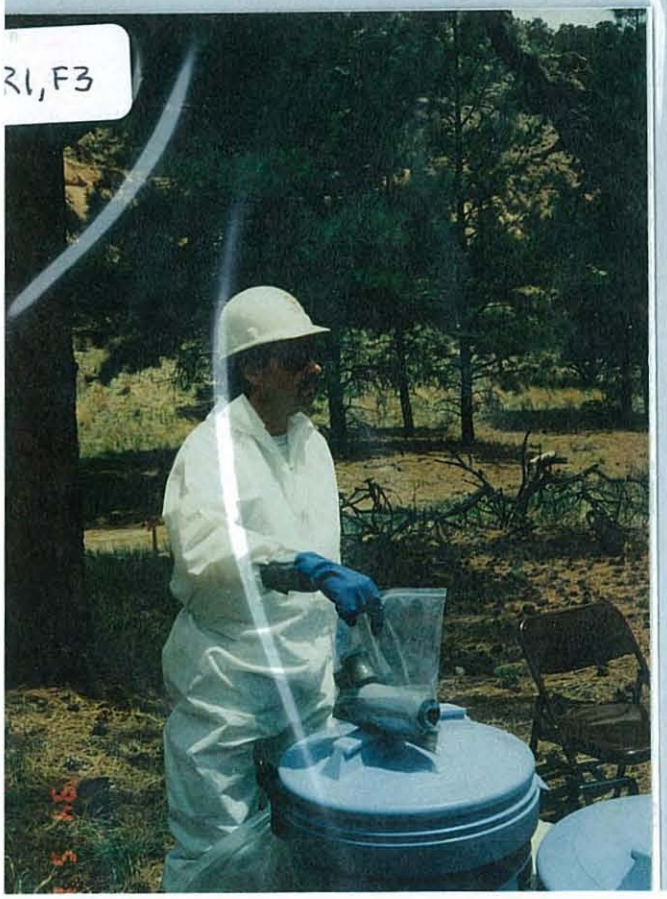
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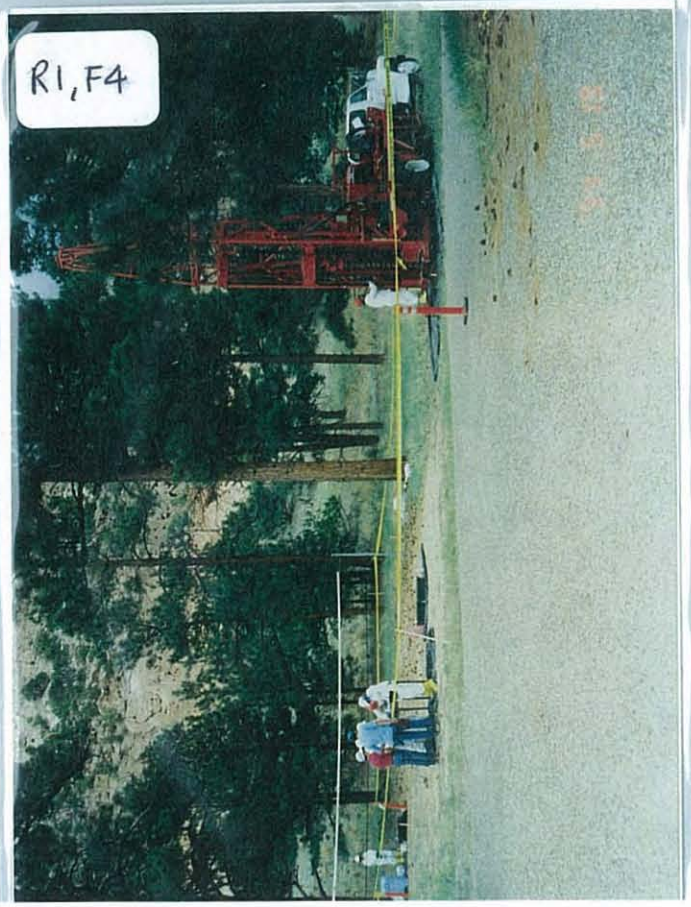
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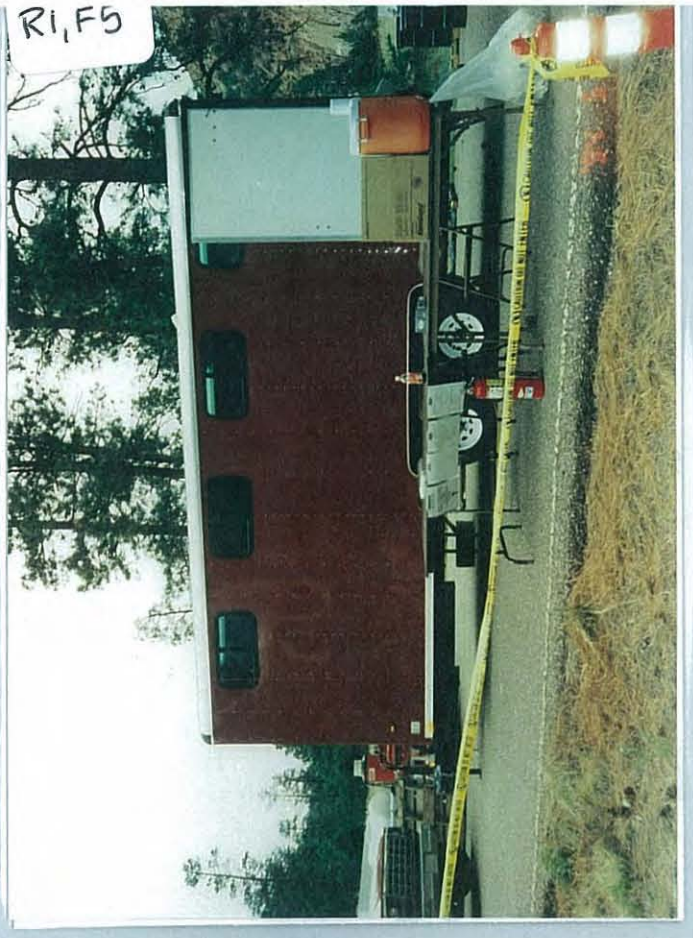
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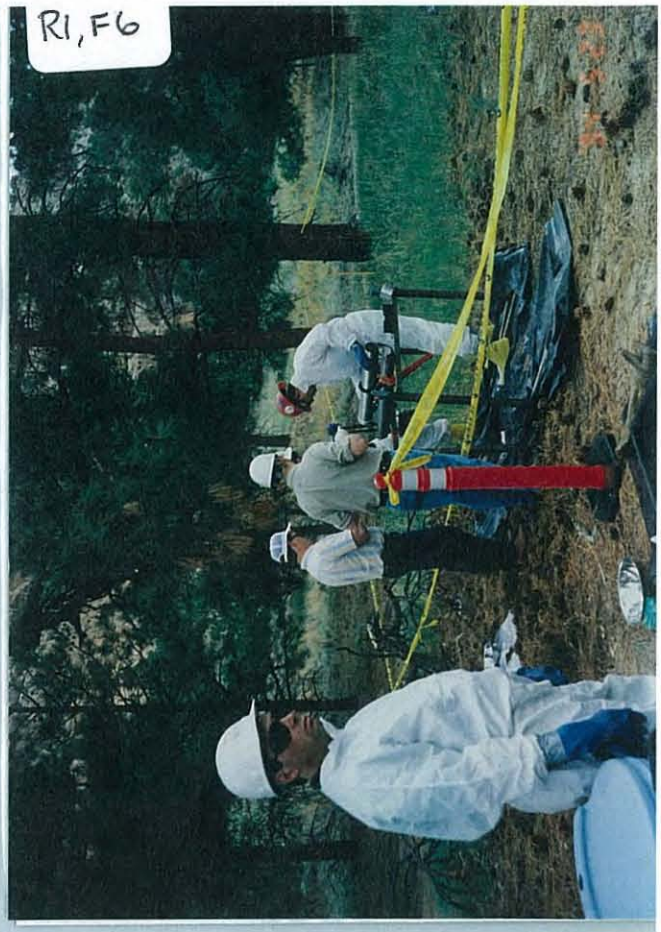
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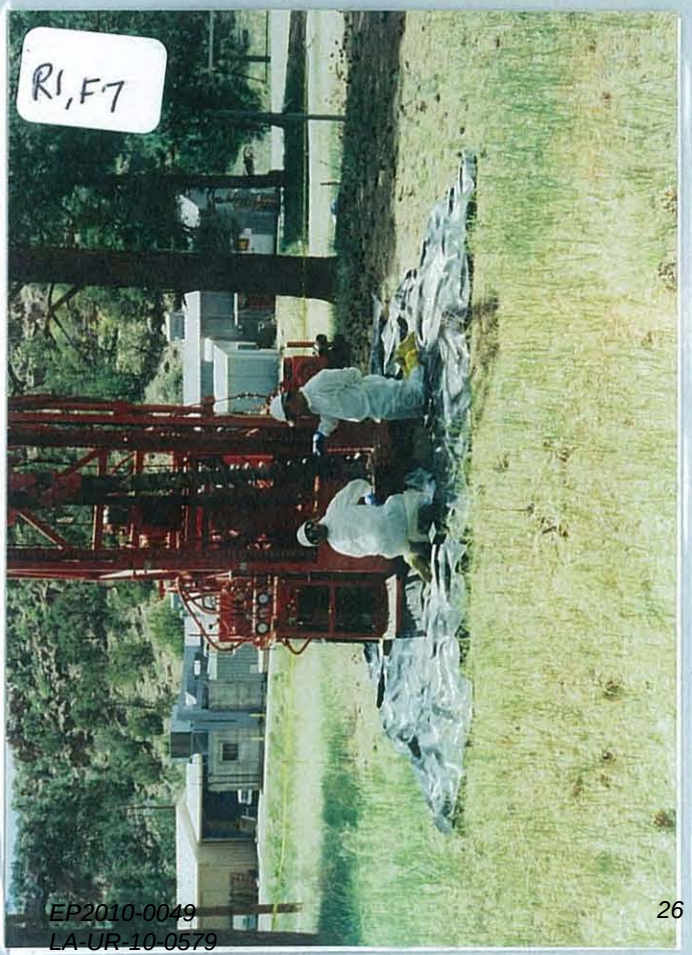
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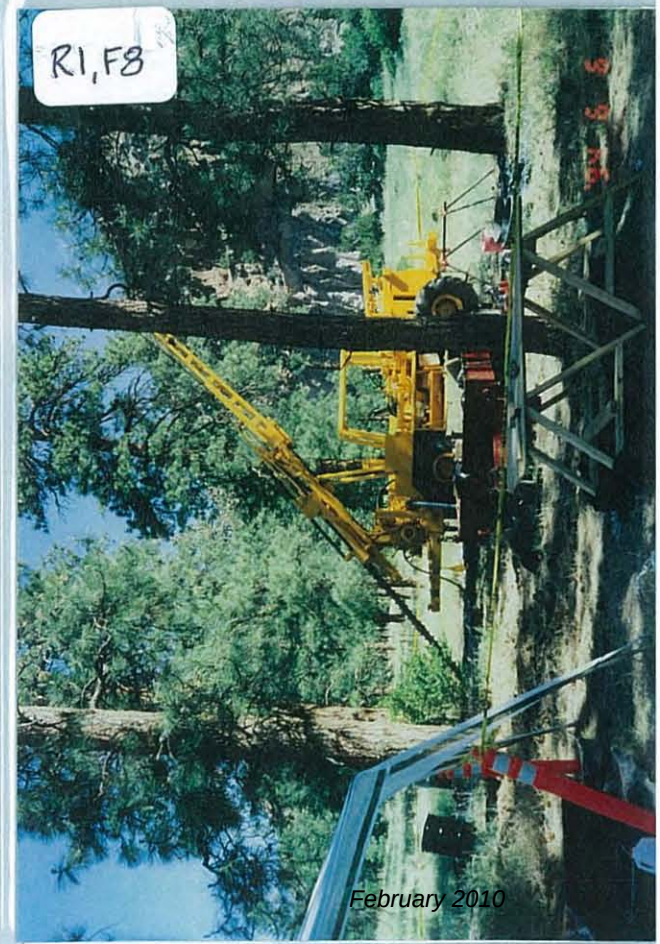
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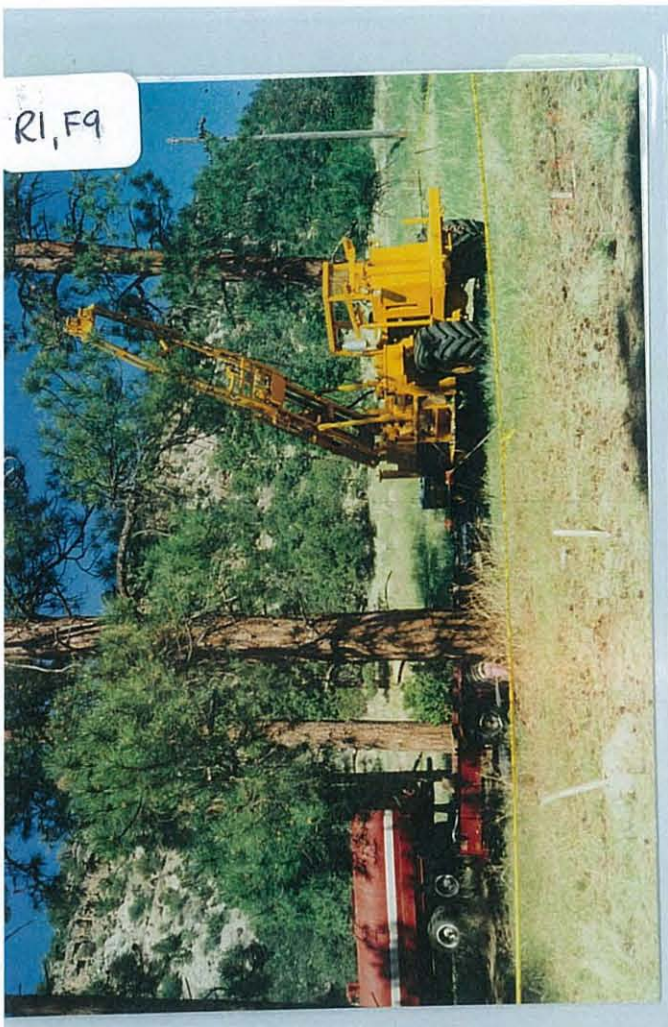
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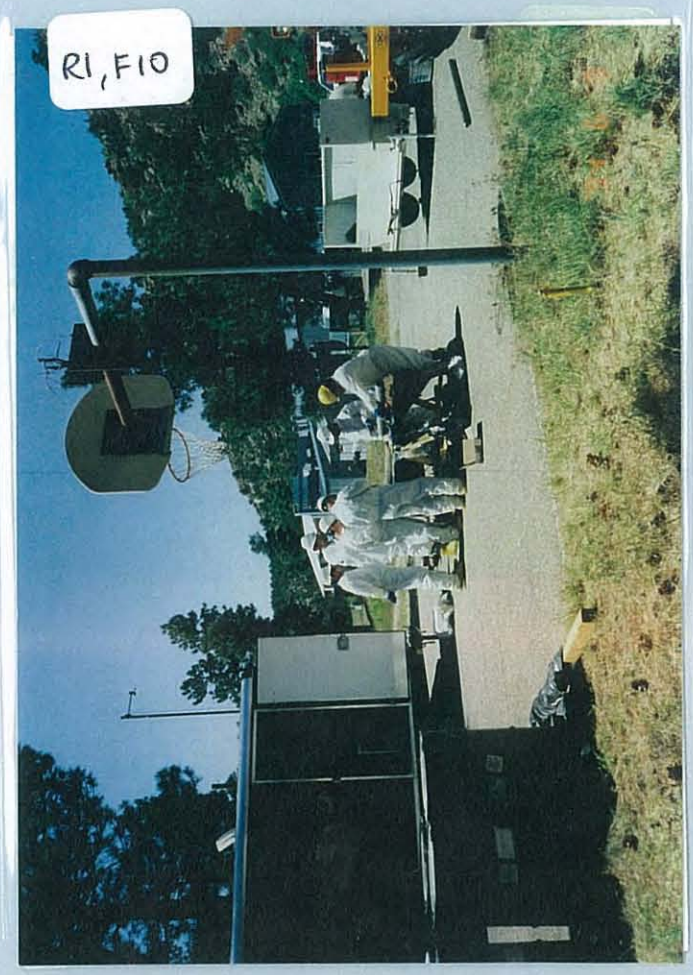
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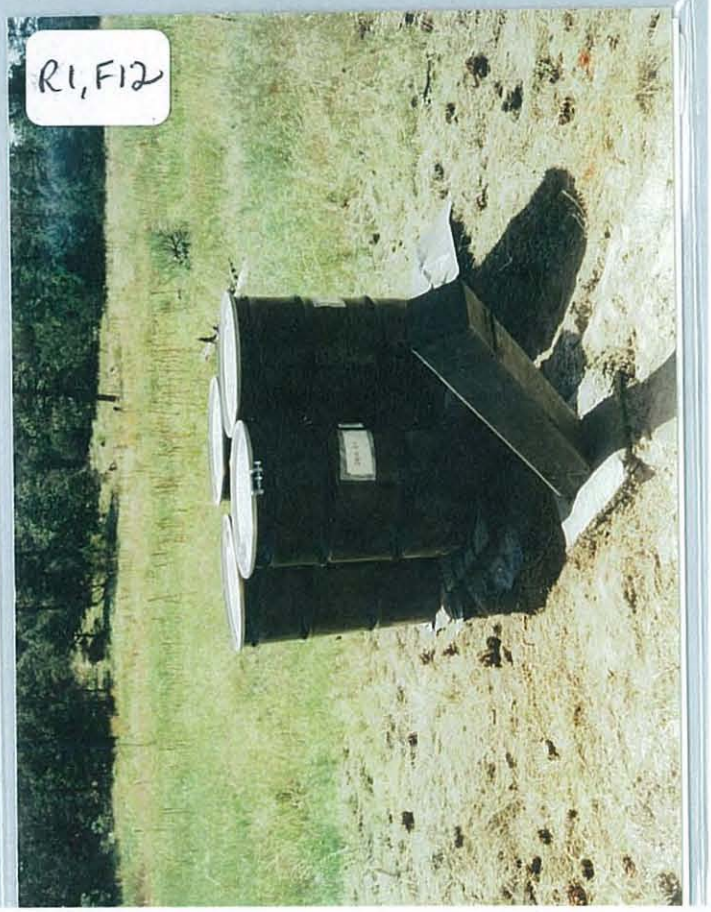
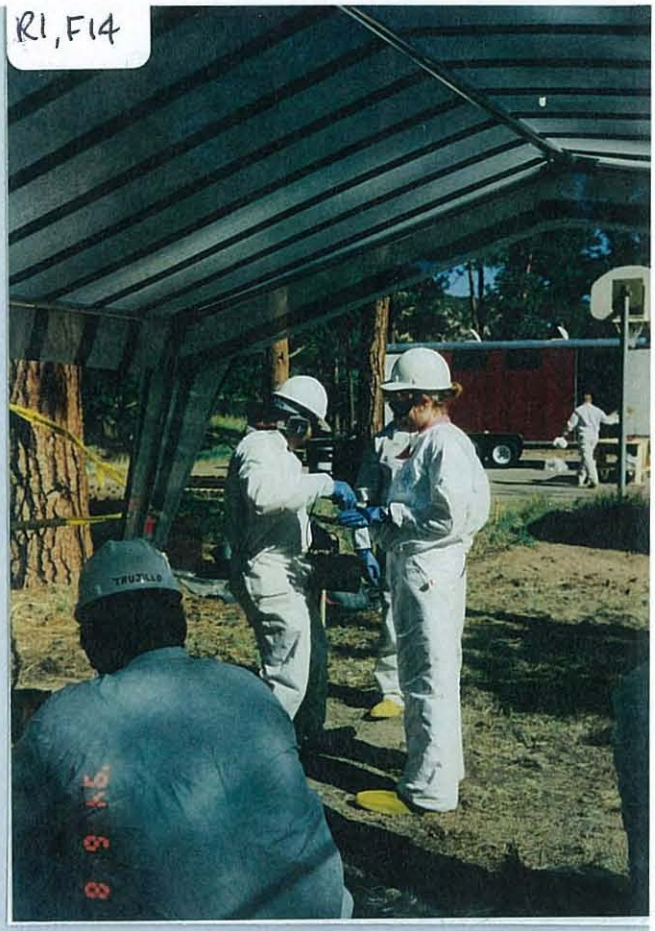
21, F11


R1, F12


R1, F13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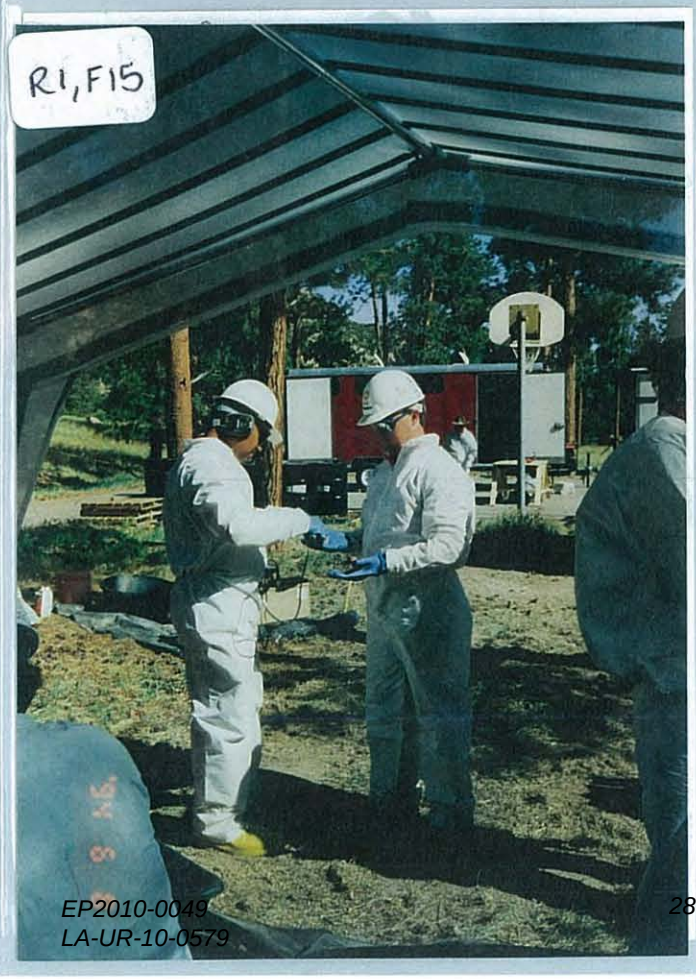

R1, F15


R1, F25


R1,F26


R1,F28

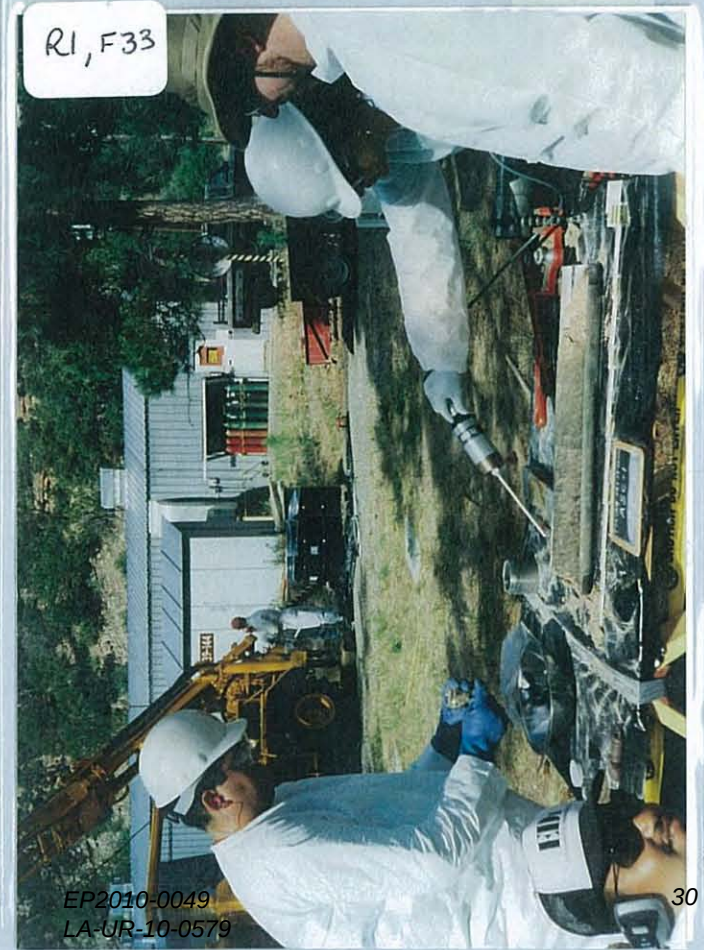

1,F29


R1, F30

R1, F31

R1, F32

R1, F33



R1, F34 Frame 34

PHOTO
MISSING

06-21-94

ASC-1
AAB-0726

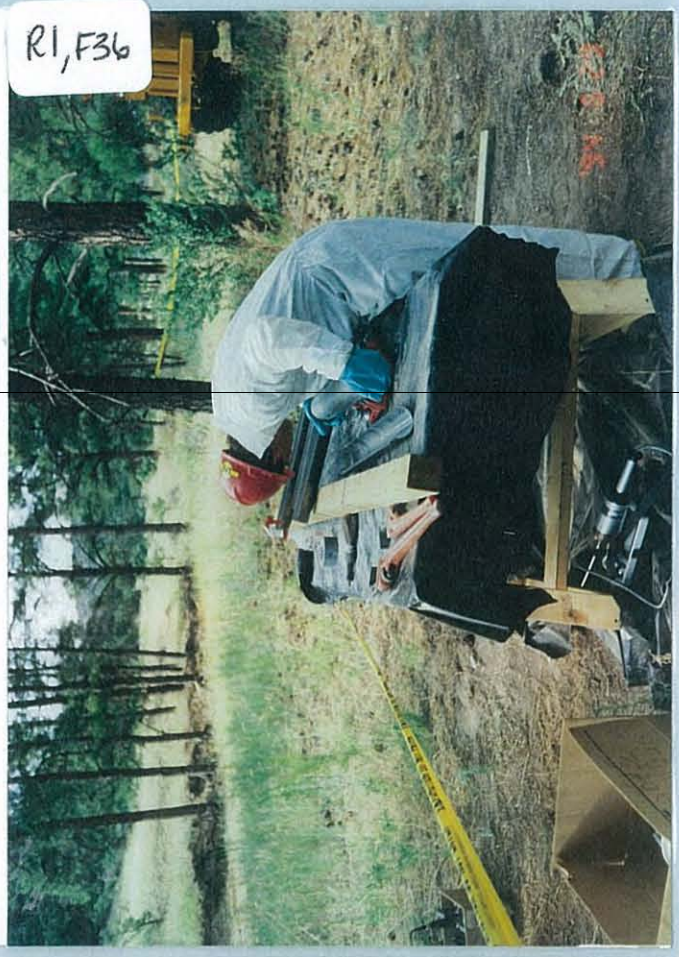
D. Trujillo, L. Sandoval
posing in Decon Zone.

R1, F35 Roll 1, Frame 35

PHOTO MISSING

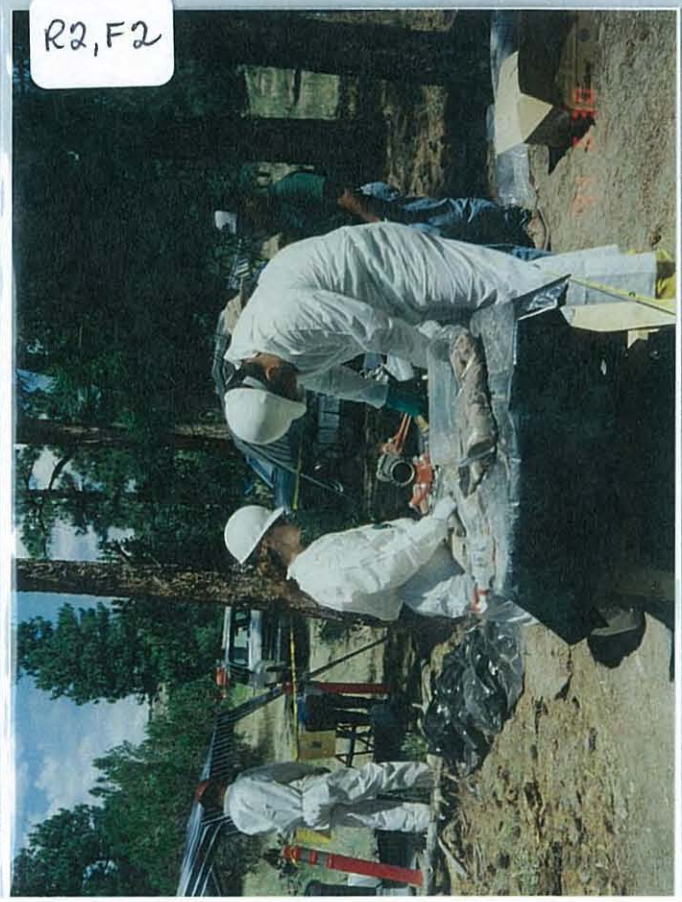
06-23-94
ASC-0
AAB0612
D. Trujillo, P. Ross using PCB test kit.

R1, F36



R2, F1

R2, F2



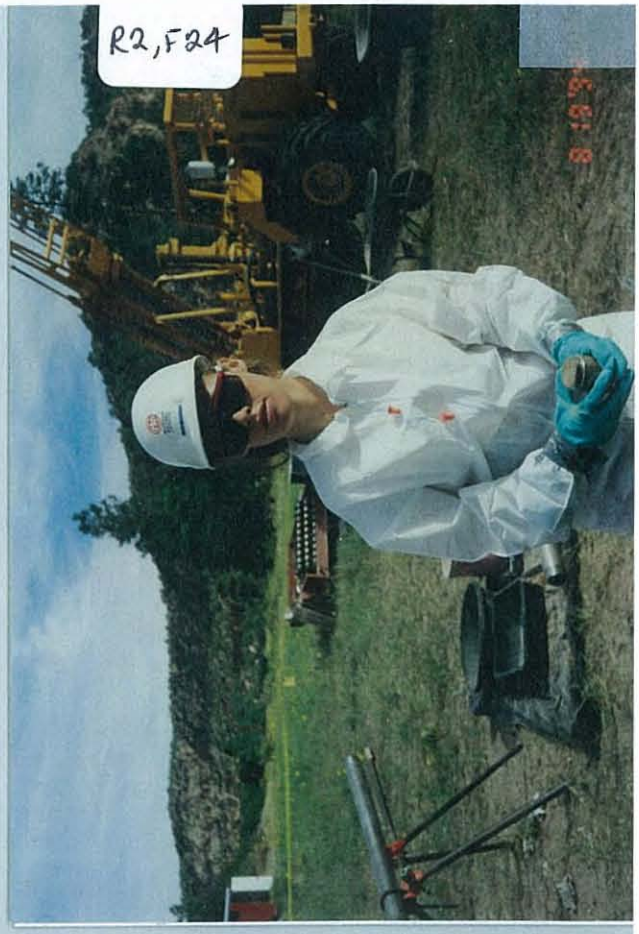

R2,F3


R2,F4


R2,F7


R2,F8


R2,F21


R2,F24


R2,F25


R2,F26

DRILLING & SAMPLING AT TA-39, MDA-Y & BURIAL PITS AREAS.

Frame No	Site	PRS Site	Location ID	Date	Assoc Point	Field Samp ID	Field Stake	Comments	Personnel
Roll 4									
1	TA-39	39-001(a)	39-1147	5/24/94	SE	AAB0651	SC-7	Drilling	L. Gurule, S. Johnson
2	TA-39	39-001(a)	--	7/15/4	--	--	--	Resting	P. Gomez
3	TA-39	39-001(a)	--	7/15/94	--	--	--	Muster and records area	B. Cole
4	TA-39	39-001(a)	--	7/15/94	--	--	--	Muster and records area	B. Cole, G. Baldonado
5	TA-39	39-001(a)	--	7/15/94	W	--	--	Drill decon pad	--
6	TA-39	39-001(a)	--	7/15/94	N	--	--	Drill decon pad, core trailer	--
7	TA-39	39-001(a)	39-1133	7/15/94	SW	AAB0730	DM-4	Pulling Core Barrel	J. Stewart, ?, ?, A. Trujillo, ?.
8	TA-39	39-001(a)	39-1133	7/15/94	E	AAB0730	DM-4	Pulling Core Barrel	J. Stewart, ?, ?.
9	TA-39	39-001(b)	39-1112	8/9/94	E	AAB0422	ASC-12	Drill rig in place	L. Thurmond
10	TA-39	39-001(b)	39-1114	8/17/94	N	AAB0444	ASC-14	Preparing core tool for insertion	J. Stewart
11	TA-39	39-001(a)	39-1153	6/21/94	S	AAB0724	ASC-1	Drilling	S. Johnson, L Gurule
12	TA-39	39-001(b)	39-1115	8/23/94	--	AAB0460	ASC-15	Collecting sample from core	J. Heiser, L. Gurule, G. Torres
13	TA-39	39-001(b)	39-1115	8/23/94	N	AAB0460	ASC-15	Drill rig in position	--
14	TA-39	39-001(b)	--	8/31/94	W	--	--	Shelter against the storm	--
15	TA-39	39-001(b)	--	8/31/94	E	--	--	Outside exclusion zone	B. Cole
16	TA-39	39-001(b)	--	8/31/94	E	--	--	Decon Pad	Nancy Cole, B. Cole
17	TA-39	39-001(b)	39-1113	8/31/94	SW	AAB0433	ASC-13	Preparing to drill	C. Chamberlain, J. Stewart, L. Gurule
18	TA-39	39-001(b)	--	8/31/94	N	--	--	Watching the weather	W. Stevenson
19	TA-39	39-001(b)						Pointing to the approaching thunder storm	--
20	TA-39	39-001(b)	39-1116	9/1/94	N	--	ASC-16,19	Completed well head	--

R4 F9
TA 39
'94

R4 F10
TA 39
'94

R4 F11
TA 39
194

R4 F12
TA 39
194

Field Screening Logs and Coring Logs

7 6 8 6 8	ERID#: 76868	LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION (RRES-R) Records Processing Facility ER Records Index Form

Date Received: 9/24/2003 **Processor:** AAP **Page Count:** 194

Privileged: (Y/N) N **Record Category:** R **Administrative Record: (Y/N)** Y

FileFolder: N/A

Miscellaneous Comments: N/A

Record Documents:

Start Pg	Doc Type	Doc Date	Title	Box	Package
1	PHOTO LOG		OU1132, PRS 39-001(B), CORE LOGS AND PHOTOS - ASC AND DM	569	
3	PHOTO LOG		OU1132, PRS 39-001(B), CORE LOGS AND PHOTOS - ASC-11	569	
20	PHOT LOG		OU1132, PRS 39-001(B), CORE LOGS AND PHOTOS - ASC-12	569	
36	PHOTO LOG		OU1132, PRS 39-001(B), CORE LOGS AND PHOTOS - ASC-13	569	
53	PHOTO LOG		OU1132, PRS 39-001(B), CORE LOGS AND PHOTOS - ASC-14	569	
69	PHOTO LOG		OU1132, PRS 39-001(B), CORE LOGS AND PHOTOS - ASC-15	569	
85	PHOTO LOG		OU1132, PRS 39-001(B), CORE LOGS AND PHOTOS - ASC-16	569	
100	PHOTO LOG		OU1132, PRS 39-001(B), CORE LOGS AND PHOTOS - ASC-17	569	
116	PHOTO LOG		OU1132, PRS 39-001(B), CORE LOGS AND PHOTOS - ASC-18	569	
133	PHOTO LOG		OU1132, PRS 39-001(B), CORE LOGS AND PHOTOS - ASC-19	569	
150	PHOTO LOG		OU1132, PRS 39-001(B), CORE LOGS AND PHOTOS - DM-3	569	

166	PHOTO LOG	OU1132, PRS 39-001(B), CORE LOGS AND PHOTOS - DM-5	569
179	PHOTO LOG	OU1132, PRS 39-001(B), CORE LOGS AND PHOTOS - DM-6	569

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-11 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft.
Date/Time Start: 8/2/94, 1646
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

End: 8/3/94

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
2.5	75	Surface AAB0411	HNu-ND Rad-105	0.5-2.5 1	Light brown sandy silt.	Surface sample-0-0.5 feet.
5	56		HNu-70 5-open Rad-105	2.5-5 2	Same as above, more sand.	
7.5	56		HNu-20 ND-open Rad-	5-7.5 3	Fine to medium silty sand.	
10	56	AAB0412	HNu-1 ND-open Rad-101	7.5-10 4	Medium brown, medium to coarse silty sand.	Sample 9.2-10 feet. Angle in shallowing-pull augers, reset rig.
12.5	0			10-12.5 5	No recovery.	
15	56		HNu-ND Rad-97	12.5-15 6	Medium to coarse silty sand.	
17.5	56		HNu-ND Rad-89	15-17.5 7	Same as above, damp.	
20	60	AAB0413	HNu-ND Rad-88	17.5-20 8	Coarse silty sand with 10% pebbles.	Sample 19.4-20 feet.
22.5	60		HNu-ND Rad-77	20-22.5 9	Coarse silty sand, damp, no pebbles.	
25	48		HNu-ND Rad-80	22.5-25 10	Medium silty sand with occasional pebbles, damp.	
27.5	60		HNu-ND Rad-88	25-27.5 11	Medium to coarse silty sand with cobbles.	
30	100	AAB0414	HNu-ND Rad-84	27.5-30 12	Upper 1"-Coarse to medium silty sand. Middle 1"-Silty clay. Lower 5'-Fine to medium silty sand, moist, tan brown.	Sample 29-30 feet. Had to offset hole-Pull augers, change bit, redrilled at 45° angle.

Prepared By: Kenneth A. Shirley Jr. Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-11 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft. Page: 2 of: 3
Date/Time Start: 8/11/94, 0900 End: 8/15/94, 1215
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
30	100		HNu-ND Rad-98	30-32.5 13	Dark brown clayey silt.	Re-entry with new augers on 8-11-94.
32.5	100		HNu-ND Rad-103	32.5-35 14	Clayey silt with pumice.	
35	100		HNu-ND Rad-103	35-37.5 15	Dark brown silt.	
37.5	100	AAB0415 Dup: AAB0416	HNu-ND Rad-97	37.5-40 16	Dark brown silt with some clay.	Sample 38.6-40 feet.
40	100		HNu-ND Rad-110	40-42.5 17	Dark brown clayey silt.	
42.5	100		HNu-ND Rad-114	42.5-45 18	42.5-43.5-Dark brown clayey silt. 43.5-45-Dark brown silty sand.	
45	100		HNu-ND Rad-89	45-47.5 19	45-45.5-Silty sand. 45.5-47-Clayey silt. 47-47.5-Clayey silty sand.	
47.5	100	AAB0417	HNu-ND Rad-103	47.5-50 20	Graded material from gravel to fine sand, rounded pink pumice clasts with silty matrix.	Sample 49.3-50 feet.
50	100		HNu-ND Rad-108	50-52.5 21	50-51.5-Medium brown coarse to fine silty sand with pebbles. 51.5-52.5-Gray fine sand with pebbles.	
52.5	84		HNu-ND Rad-89	52.5-55 22	52.9-53.5-Sandy silt. 53.5-54.1-Medium fine sand. 54.1-54.2-Very fine sand. 54.2-55-Sandy clayey silt with cobbles, tuff, dacite, and sanidine crystals.	
55						

Prepared By: Kenneth a. Shiley Jr. Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-11 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft.
Date/Time Start: 8/11/94, 0900 End: 8/15/94, 1215
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
55	68		HNu-ND Rad-100	55-57.5 23	55.8-56.6-Medium clayey sand. 56.6-56.8-Dacite cobble zone. 56.8-57.1-Pink tuff layer. 57.1-57.5-Dark brown, dense sandy clay with pebbles.	
57.5	100	AAB0418	HNu-ND Rad-76	57.5-60 24	57.5-59-Grades from sandy clay to medium clayey sand. 59-60-Red brown medium sand, decreasing clay content with depth.	Sample 59.4-60 feet.
60	96		HNu-ND Rad-82	60-62.5 25	60.1-61.5-Red brown, sandy clay matrix conglomerate with large cobbles. 61.5-61.8-Dark brown, extremely weathered ash flow/ pebbles. 61.8-62.1-Light brown pumice. 62.1-62.15-Fe stained layer. 62.15-62.17-Magnetite (?). 62.17-62.5-Dark brown, weathered ash flow.	
62.5	100		HNu-ND Rad-90	62.5-65 26		
65	100		HNu-ND Rad-107	65-67.5 27	62.5-64.1-Ash flow. 64.1-64.8-Interlayered silt and magnetite (?) Fe based mineral, Fe staining prominent. 64.8-65-Pumice flow.	
67.5	100	AAB0419	HNu-ND Rad-98	67.5-70 28	Gray brown, very fine sand with occasional white pumice clasts.	
70	100		HNu-ND Rad-94	70-72.5 29	Same as above.	Sample 69.2-70 feet.
72.5	100		HNu-ND Rad-86	72.5-75 30	Fine to medium buff sand with pumice and pebbles.	
75	100		HNu-ND Rad-107	75-77.5 31	Same as above.	
77.5	100	AAB0420	HNu-ND Rad-83	77.5-80 32	75-75.7-Fine sand with pumice. 75.7-76.3-Sugary coarse sand with pebbles. 76.3-77.5-Fine to medium sand with pebbles and tuff clasts.	
80					77.5-79-Sugary, loose tuff. 79-80-Interlayered dense, fine sand and coarse sugary loose tuff.	Sample 79-80 feet.
					TOTAL DEPTH: 80 FEET	

Prepared By: Kenneth A. Shirley Jr. Date: 10/28/94

Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-11

SAMPLE CONTAINER TOTAL: 13

DOCUMENTATION	ARRIVED AT SMF?

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME
TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:10
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth A. Philp	11-4-94 11:10

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE
FCT 0001481	0.5	12.5	001	CORE			0.5	1.5	UNREC
							1.5	2.5	REC
							2.5	3.6	UNREC
							3.6	5.0	REC
							5.0	6.1	UNREC
							6.1	7.5	REC
							7.5	8.6	UNREC
							8.6	9.2	REC
							9.2	10.0	SCP-Fld
							10.0	12.5	NAT
FCT 0001482	12.5	22.5	002	CORE			12.5	13.6	UNREC
							13.6	15.0	REC
							15.0	16.1	UNREC
							16.1	17.5	REC
							17.5	18.5	UNREC
							18.5	19.4	REC
							19.4	20.0	SPC-Fld
							20.0	21.0	UNREC
							21.0	22.5	REC
FCT 0001483	22.5	30.0	003	CORE			22.5	23.8	UNREC
							23.8	25.0	REC
							25.0	26.0	UNREC
							26.0	29.0	REC
							29.0	30.0	SPC-Fld
FCT 0001484	30.0	35.0	004	CORE			30.0	35.0	REC

FOR SMF USE
Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-11

SAMPLE CONTAINER TOTAL: 13

DOCUMENTATION	ARRIVED AT SMF?

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME
TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:10
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth A. Kisly Jr.	11-4-94 11:10

CONTAINER ID	BOX INTERVAL TOP	BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	BOTTOM	EXISTENCE	
FCT 0001485	35.0	40.0	005	CORE			35.0	38.6	REC	✓
							38.6	40.0	SPC-Fld	
FCT 0001486	40.0	45.0	006	CORE			40.0	45.0	REC	✓
FCT 0001487	45.0	50.0	007	CORE			45.0	49.3	REC	✓
							49.3	50.0	SPC-Fld	
FCT 0001488	50.0	55.0	008	CORE			50.0	52.5	REC	✓
							52.5	52.9	UNREC	
							52.9	55.0	REC	
FCT 0001498	55.0	60.0	009	CORE			55.0	55.8	UNREC	✓
							55.8	59.4	REC	
							59.4	60.0	SPC-Fld	
FCT 0001490	60.0	65.0	010	CORE			60.0	60.1	UNREC	✓
							60.1	65.0	REC	

FOR SMF USE
Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-11

SAMPLE CONTAINER TOTAL: 13

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME

DOCUMENTATION	ARRIVED AT SMF?

TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:10
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth A. Phillips Jr.	11-4-94 11:10

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE
FCT 0001491	65.0	70.0	011	CORE			65.0	69.2	REC
							69.2	70.0	SPC-Fld
FCT 0001492	70.0	75.0	012	CORE			70.0	75.0	REC
FCT 0001493	75.0	80.0	013	CORE			75.0	79.0	REC
							79.0	80.0	SPC-Fld

FOR SMF USE
Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | FIELD SCREENING LOG

TA/OU 39/1132 Borehole ID: ASC-11 Checked By: KAS Date: Page 1 of 2

Run No.	Run Interval	Hazard	Screening Method	Reading	Acceptance Criteria BELOW	Acceptance Criteria ABOVE	Technician's Certification
1	0.5-2.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	105	X		
2	2.5-5	VOC	HNu	70-closed	X		
	"	VOC	HNu	5-open	X		
	"	RAD	449 Ludlum	105	X		
3	5-7.5	VOC	HNu	20-50 closed	X		
	"	VOC	HNu	ND-open	X		
	"	RAD	449 Ludlum	Not taken	X		
4	7.5-10	VOC	HNu	1-closed	X		
	"	VOC	HNu	ND-open	X		
	"	RAD	449 Ludlum	101	X		
5	10-12.5		NO RECOVERY				
6	12.5-15	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	97	X		
7	15-17.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	89	X		
8	17.5-20	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	88	X		
9	20-22.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	77	X		
10	22.5-25	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	80	X		
11	25-27.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	88	X		
12	27.5-30	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	84	X		
13	30-32.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	98	X		
14	32.5-35	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	103	X		
15	35-37.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	103	X		
16	37.5-40	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	97	X		
17	40-42.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	110	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | **FIELD SCREENING LOG**

TA/OU 39/1132 Borehole ID: ASC-11 Checked By: KAS Date: Page 2 of 2

Run No.	Run Interval	Hazard	Screening Method	Reading	Acceptance Criteria BELOW	Acceptance Criteria ABOVE	Technician's Certification
18	42.5-45	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	114	X		
19	45-47.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	89	X		
20	47.5-50	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	103	X		
21	50-52.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	108	X		
22	52.5-55	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	89	X		
23	55-57.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	100	X		
24	57.5-60	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	76	X		
25	60-62.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	82	X		
26	62.5-65	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	90	X		
27	65-67.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	107	X		
28	67.5-70	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	98	X		
29	70-72.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	94	X		
30	72.5-75	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	86	X		
31	75-77.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	107	X		
32	77.5-80	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	83	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 39/1132 Borehole ID ASC-11 Checked By _____ Date _____ Page 1 of 2

Photographed By Ken Shisler Date _____

Roll		Exposure			Run		Box		Other
No.	ASA	No.	f-stop	Speed	No.	Interval	Bar Code #	Interval	
9	200	22			1	0.5-2.5	1481	0.5-10	8-2-94
		23			2	2.5-5	"	"	"
		24			3	5-7.5	"	"	8-2-94
		25			4	7.5-10	1481	0.5-10	8-3-94
					5	10-12.5			No Recovery
		26			6	12.5-15	1482	12.5-22.5	
		27			7	15-17.5	"	"	
		28			8	17.5-20	"	"	
		29			9	20-22.5	1482	12.5-22.5	
		30			10	22.5-25	1483	22.5-30	
		31			11	25-27.5	"	"	
		32			12	27.5-30	1483	22.5-30	8-3-94
						~~30-32.5~~			could not drill further. Move to ASC-12
10	200	29			13	30-32.5	1484	30-35	8-11-94
		30			14	32.5-35	1484	30-35	
		31			15	35-37.5	1485	35-40	
		32			16	37.5-40	1485	35-40	
		33			17	40-42.5	1486	40-45	
		34			18	42.5-45	1486	40-45	
		35			19	45-47.5	1487	45-50	
		36			20	47.5-50	1487	45-50	8-11-94
11	200	1			21	50-52.5	1488	50-55	8-12-94
		2			22	52.5-55	1488	50-55	
		3			23	55-57.5	1489	55'-60'	
		4			24	57.5-60	1489	55'-60'	
		5			25	60-62.5	1490	60'-65'	
		6/7			26	62.5-65	1490	60'-65'	
		8			27	65-67.5	1491	65'-70'	
		9			28	67.5-70	1491	65'-70'	8-12-94

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 39/1132 Borehole ID ASC-11 Checked By _____ Date _____ Page 2 of 2

Photographed By Ken Shisler Date _____

Roll		Exposure			Run		Box		Other
No.	ASA	No.	f-stop	Speed	No.	Interval	Bar Code #	Interval	
11	200	10			29	70-72.5	1492	70'-75'	8-15-94
		11			30	72.5-75	1492	70'-75'	"
		12			31	75-77.5	1493	75'-80'	"
		13			32	77.5-80	1493	75'-80'	8-15-94

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization CST-9

Telephone ( ) _____

Form Completed By C. Birney Date 8/11/94 Page 1 of 2

Borehole ID ASC-11 TA/OU 39, 1132

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
2743		0 - 0.5 / 8/3/94	✓	✓	✓
2744		9.2 - 10 / 8/3/94	✓	✓	✓
2745		19.4 - 20 / 8/3/94	✓	✓	✓
2746		29 - 30 / 8/3/94	✓	✓	✓
2747		38.6 - 40 / 8/11/94	✓	✓	✓
3071		49.3 - 50 / 8/11/94	✓	✓	✓
2748		59.4 - 60 / 8/11/94	✓	✓	✓
3069		69.2 - 70 / 8/11/94	✓	✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody: _____ Person Accepting Custody: _____

Date/ Time _____ Date/ Time _____

SMF USE ONLY Checked By _____ Date _____

R.1

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization CST-9

Telephone ( ) _____

Form Completed By Ken Shisler Date 8-15-94 Page 2 of 2

Borehole ID ASC-11 TA/OU 39 / 1132

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
3070		79-80 / 8-15-94	✓	✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody: _____ Person Accepting Custody: _____

Date/ Time _____ Date/ Time _____

SMF USE ONLY Checked By _____ Date _____

R.1

TARGET PAGE

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ER ID # 76868

RECORD TYPE: PHOTOS

DATE: 041132

SYMBOL: PRS 37-001 (B)

SUBJECT: ASC-11 - 32 photos

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-16 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft.
Date/Time Start: 8/25/94, 1300
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Page: 1 of: 3
End: 8/29/94, 1635

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
2.5	60	Surface AAB0466	HNu-ND Rad-89	0.5-2.5 1	Light brown silt.	Surface sample-0-0.5 feet.
5	60		HNu-ND Rad-88	2.5-5 2	Light to medium brown, medium sand with some fines.	
7.5	92		HNu-3 2 open Rad-113	5-7.5 3	Medium brown coarse sand with pebbles, damp.	
10	80	AAB0467	HNu-0.5 Rad-86	7.5-10 4	Medium brown coarse sand with cobbles.	Sample 8-10 feet.
12.5	100		HNu-ND Rad-94	10-12.5 5	Medium brown coarse sand with some medium sand.	
15	100		HNu-ND Rad-110	12.5-15 6	Medium brown coarse sand with pebbles.	
17.5	80		HNu-ND Rad-106	15-17.5 7	Same as above, slightly damp.	
20	84	AAB0468	HNu-ND Rad-92	17.5-20 8	Medium brown, fine to coarse sand with pebbles.	Sample 19.5-20 feet.
22.5	100		HNu-ND Rad-95	20-22.5 9	Medium brown, medium to coarse sand, slightly damp.	
25	100		HNu-ND Rad-106	22.5-25 10	Medium brown, clayey silt, some sand, damp.	
27.5	100		HNu-ND Rad-108	25-27.5 11	Medium brown, damp, clayey silt with some sand at 25 feet, grades into reddish brown clayey silt.	
30	100	AAB0469	HNu-ND Rad-116	27.5-30 12	Medium brown, clayey sand grading into silty sandy conglomerate with gravel and tuff, damp.	Sample 27.5-30 feet.

Prepared By: Kenneth a. Shirley Jr. Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-16 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft.
Date/Time Start: 8/25/94, 1300
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

End: 8/29/94, 1635

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
30	100		HNu-ND Rad-107	30-32.5 13	30-30.5-Medium brown, coarse sandy conglomerate with pinkish- purple tuff. 30.5-32.5-Fine sand with coarse sand layers, damp.	
32.5	100		HNu-ND Rad-104	32.5-35 14	32.5-33.5-Damp, medium brown, coarse sand. 33.5-34-Light brown, fine sand. 34-34.5-Fine sandy conglome-rate. 34.5-35-Medium brown, coarse sand.	
35	100		HNu-ND Rad-112	35-37.5 15	35-37-Damp, light brown, medium sand grading into coarse sand. 37-37.5-Reddish brown, coarse sand with pebbles, gravel, and some cobbles.	
37.5	100	AAB0470	HNu-ND Rad-92	37.5-40 16	37.5-39.4-Reddish brown, clayey sand with pumice clasts and pebbles. 39.4-40-Orange brown silty clay.	Sample 37.5-40 feet.
40	100		HNu-ND Rad-98	40-42.5 17	40-40.7-Buff ash flow-pumice. 40.7-41.7-Reddish brown pumice. 41.7-42-Brownish purple tuff. 42-42.5-Orange brown silty clay.	
42.5	100		HNu-ND Rad-102	42.5-45 18	42.5-43-Orange brown silty clay. 43-45-Reddish brown, damp, clayey sand.	
45	48		HNu-ND Rad-108	45-46.5 19	45.78-46-Reddish brown, damp, coarse sand. 46-46.3-Purple brown tuff. 46.3-46.5-Reddish brown, damp, coarse sand.	Drilled with center bit from 46.5 to 47.5 feet.
46.5						
47.5	44	AAB0471	HNu-ND Rad-90	47.5-50 20	Light orangish brown, medium sand with pumice, damp.	Sample 48.9-50 feet.
50	80		HNu-ND Rad-98	50-52.5 21	Damp, light orange brown, clayey sand grading into light brown medium sand with some pumice cobbles and Fe stain.	
52.5	0			52.5-55 22	No recovery.	Hit boulder at 52.5 feet - moved rig over 3 feet.
55						

Prepared By: Date: Checked By: Date:

10/28/94

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-16 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft. Page: 3 of: 3
Date/Time Start: 8/25/94, 0900 End: 8/29/94, 1635
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
55	88		HNu-ND Rad-91	55-57.5 23	Grayish medium brown clay with dacite cobbles grading into light medium brown conglomerate with pumice, damp.	
57.5	100	AAB0472	HNu-ND Rad-99	57.5-60 24	Pumice with angular dacite fragments, damp.	Sample 57.5-60 feet.
60	100		HNu-ND Rad-106	60-62.5 25	Same as above, slightly damper.	
62.5	100		HNu-ND Rad-90	62.5-65 26	62.5-63.5-Gray brown pumice. 63.5-63.7- Iron stained layer with manganese (?) deposition. 63.7-65-Red brown pumice with Fe stained banding and cobbles.	
65	100		HNu-ND Rad-95	65-67.5 27	Medium brown pumice with cobbles at 67.3 feet, saturated.	
67.5	100	AAB0473	HNu-ND Rad-97	67.5-70 28	67.5-68.2-Coarse pumice with pebbles. 68.2-69-Fine sand, Fe stained. 69-70-Light brown fine pumice.	Sample 67.9-70 feet.
70	100		HNu-ND Rad-84	70-72.5 29	70-71.4-Coarse saturated sand. 71.4-72.5-Damp pumice.	
72.5	100		HNu-ND Rad-101	72.5-75 30	72.5-73.2-Coarse sand. 73.2-74-Very fine sand with pumice and dacite clasts. 74-75-Fine sand and pumice.	
75	88		HNu-ND Rad-90	75-77.5 31	75.3-76.5-Coarse to medium sand, pebbles and cobbles. 76.5-77.5-Fine sand with pumice and cobbles.	
77.5	100	AAB0474	HNu-ND Rad-110	77.5-80 32	Fine sand with pumice and pebbles.	Sample 78.5-80 feet.
80					TOTAL DEPTH: 80 FEET	

Prepared By: Kenneth A. Shields Jr. Date: 10/28/94 Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-16

SAMPLE CONTAINER TOTAL: 10

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME

DOCUMENTATION	ARRIVED AT SMF?

TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:10
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth A. Shiley Jr.	11-4-94 11:10

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE
FCT 0001581	0.5	10.0	001	CORE			0.5	1.3	UNREC
							1.3	2.5	REC
							2.5	3.5	UNREC
							3.5	5.0	REC
							5.0	5.2	UNREC
							5.2	7.5	REC
							7.5	8.0	UNREC
							8.0	10.0	SPC-Fld
FCT 0001582	10.0	20.0	002	CORE			10.0	15.0	REC
							15.0	15.5	UNREC
							15.5	17.5	REC
							17.5	17.9	UNREC
							17.9	19.5	REC
							19.5	20.0	SPC-Fld
FCT 0001583	20.0	25.0	003	CORE			20.0	25.0	REC
FCT 0001584	25.0	32.5	004	CORE			25.0	27.5	REC
							27.5	30.0	SPC-Fld
							30.0	32.5	REC
FCT 0001585	32.5	42.5	005	CORE			32.5	37.5	REC
							37.5	40.0	SPC-Fld
							40.0	42.5	REC

FOR SMF USE
Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-16

SAMPLE CONTAINER TOTAL: 10

DOCUMENTATION	ARRIVED AT SMF?

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME
TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11:10 11/4/94
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth A. Hicks Jr.	11-4-94 11:10AM

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE
FCT 0001586	42.5	55.0	006	CORE			42.5	45.0	REC
							45.0	45.78	UNREC
							45.78	46.5	REC
							46.5	47.5	NAT
							47.5	48.9	UNREC
							48.9	50.0	SPC-Fld
							50.0	50.5	UNREC
							50.5	52.5	REC
							52.5	55.0	UNREC
FCT 0001587	55.0	62.5	007	CORE			55.0	55.3	UNREC
							55.3	57.5	REC
							57.5	60.0	SPC-Fld
							60.0	62.5	REC
FCT 0001588	62.5	67.5	008	CORE			62.5	67.5	REC
FCT 0001589	67.5	75.0	009	CORE			67.5	67.9	REC
							67.9	70.0	SPC-Fld
							70.0	75.0	REC
FCT 0001590	75.0	80.0	010	CORE			75.0	75.3	UNREC
							75.3	78.5	REC
							78.5	80.0	SPC-Fld

FOR SME USE
Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | FIELD SCREENING LOG

TA/OU 39/1132 Borehole ID: ASC-16 Checked By: KAS Date: Page 1 of 2

Run		Hazard	Screening	Reading	Acceptance Criteria		Technician's
No.	Interval		Method		BELOW	ABOVE	Certification
1	0.5-2.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	89	X		
2	2.5-5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	88	X		
3	5-7.5	VOC	HNu	3-closed	X		
	"	VOC	HNu	2-open	X		
	"	RAD	449 Ludlum	113	X		
4	7.5-10	VOC	HNu	0.5-closed	X		
	"	VOC	HNu	ND-open	X		
	"	RAD	449 Ludlum	86	X		
5	10-12.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	94	X		
6	12.5-15	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	110	X		
7	15-17.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	106	X		
8	17.5-20	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	92	X		
9	20-22.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	95	X		
10	22.5-25	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	106	X		
11	25-27.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	108	X		
12	27.5-30	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	116	X		
13	30-32.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	107	X		
14	32.5-35	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	104	X		
15	35-37.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	112	X		
16	37.5-40	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	92	X		
17	40-42.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	98	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | **FIELD SCREENING LOG**

TA/OU 39/1132 Borehole ID: ASC-16 Checked By: KAS Date: Page 2 of 2

Run No.	Run Interval	Hazard	Screening Method	Reading	Acceptance Criteria BELOW	Acceptance Criteria ABOVE	Technician's Certification
18	42.5-45	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	102	X		
19	45-46.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	108	X		
20	47.5	50	HNu	ND	X		
	"	RAD	449 Ludlum	90	X		
21	50-52.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	98	X		
22	52.5-55	NO RECOVERY					
23	55-57.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	91	X		
24	57.5-60	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	99	X		
25	60-62.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	106	X		
26	62.5-65	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	90	X		
27	65-67.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	95	X		
28	67.5-70	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	97	X		
29	70-72.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	84	X		
30	72.5-75	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	101	X		
31	75-77.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	90	X		
32	77.5-80	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	110	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 39/1132 Borehole ID ASC-16 Checked By _____ Date _____ Page 1 of 2

Photographed By K. STISLER C. BURNEY Date 8/25 - 8/27/99

Roll		Exposure			Run		Box		Other
No.	ASA	No.	f-stop	Speed	No.	Interval	Bar Code #	Interval	
13	200	1			1	0.5-2.5	1581	0.5-10	
		2			2	2.5-5.0	1581	0.5-10	
		3			3	5.0-7.5	1581	0.5-10	
		4			4	7.5-10	1581	0.5-10	
		5			5	10-12.5	1582	10-20	
		6			6	12.5-15	1582	10-20	
		7			7	15-17.5	1582	10-20	
		8			8	17.5-20	1582	10-20	
		9			9	20-22.5	1583	20-25	
		10			10	22.5-25	1583	20-25	
		11			11	25-27.5	1584	25-32.5	
		missed			12	27.5-30	1584	25-32.5	
		12			13	30-32.5	1584	25-32.5	
		13			14	32.5-35	1585	32.5-42.5	
		14			15	35-37.5	1585	32.5-42.5	
		15			16	37.5-40	1585	32.5-42.5	
		16			17	40-42.5	1585	32.5-42.5	
		17			18	42.5-45	1586	42.5-55.0	
		18			19	45-46.5	1586	42.5-55.0	
		19			20	47.5-50	1586	42.5-55.0	
		20			21	50-52.5	1586	42.5-55.0	
		no photo			22	52.5-55	1586	42.5-55.0	No recovery
		21			23	55-57.5	1587	55-62.5	
		22			24	57.5-60	1587	55-62.5	
		23			25	60-62.5	1587	55-62.5	
		24			26	62.5-65	1588	62.5-67.5	
		25			27	65-67.5	1588	62.5-67.5	
		26			28	67.5-70	1589	67.5-75	
		27			29	70-72.5	1589	67.5-75	

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 39 | 1132 Borehole ID ASC-16 Checked By _____ Date _____ Page 2 of 2

Photographed By K. SMITH OR C. BIRDSEY Date 8/25-8/27/94

Roll		Exposure			Run		Box		Other
No.	ASA	No.	f-stop	Speed	No.	Interval	Bar Code #	Interval	
13	200	28			30	72.5-75	1589	67.5-75	
		29			31	75-77.5	1590	75-80	
		30			32	77.5-80	1590	75-80	

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization CST-9 _____

Telephone ( ) _____

Form Completed By C BIRNEY Date 8/30/94 Page 1 of 1

Borehole ID ASC-16 TA/OU 39 / 1132

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
00003086	✓	8'-10' (½ core) 8/25/94	✓	✓	✓
3087	✓	19.5-20 8/25/94	✓	✓	✓
3088	✓	27.5-30 (½ core) 8/25/94	✓	✓	✓
3089	✓	37.5-40 (½ core) 8/25/94	✓	✓	✓
3090	✓	~~CB4~~ 8.9-50 (½ core) 8/25/94	✓	✓	✓
3091	✓	57.5-60 (½ core) 8/29/94	✓	✓	✓
3092	✓	67.9-70 (½ core) 8/29/94	✓	✓	✓
3093	✓	78.5-80 (½ core) 8/29/94	✓	✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody: _____ Person Accepting Custody: _____

Date/ Time _____ Date/ Time _____

SMF USE ONLY Checked By _____ Date _____

R.1

TARGET PAGE

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RECORD TYPE: PHOTOS

DATE: 041132

SYMBOL: PRS 39-001 (B)

SUBJECT: ASC-16 (32 PHOTOS)

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-17 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft.
Date/Time Start: 9/12/94, 1000
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Page: 1 of: 3
End: 9/12/94, 1900

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
2.5	65	Surface AAB0477	HNu-ND Rad-110	0.5-2.5 1	0-0.5-Brown sandy silty loam. 1.2-1.8-Dark brown, silty fine sand. 1.8-2.5-Dark brown, silty clayey fine sand.	Surface sample-0-0.5 feet.
5	80		HNu-ND Rad-92	2.5-5 2	Dark brown, silty fine sand with pebbles.	
7.5	96		HNu-ND Rad-98	5-7.5 3	Dark brown, silty fine sand grading into dark brown silty clayey fine sand with pebbles.	
10	72	AAB0478	HNu-ND Rad-87	7.5-10 4	Dark brown silty clayey fine sand with pink tuff pebbles.	Sample 8.2-10 feet.
12.5	88		HNu-ND Rad-82	10-12.5 5	10.3-12.3-Same as above. 12.3-12.5-Dark brown, silty medium sand with pink tuff pebbles.	
15	96		HNu-ND Rad-93	12.5-15 6	12.6-14-Dark to medium brown coarse sand. 14-14.2-Dark brown, clayey silty fine sand. 14.2-15-Dark to medium brown coarse sand.	
17.5	100		HNu-ND Rad-97	15-17.5 7	Medium brown, sugary texture, coarse sand.	
20	84	AAB0479	HNu-ND Rad-100	17.5-20 8	17.9-19.5-Same as above. 19.5-20-Medium brown silty clayey sand.	Sample 17.9-20 feet.
22.5	96		HNu-ND Rad-101	20-22.5 9	20.1-21.4-Medium brown, silty clayey sand. 21.4-21.5-Tuff gravel layer. 21.5-22-Medium brown, silty clayey sand.	
25	76		HNu-ND Rad-111	22.5-25 10	22-22.5-Medium brown, coarse sand with cobbles, damp. Medium brown, sugary texture, coarse sand, slightly damp.	
27.5	92		HNu-ND Rad-104	25-27.5 11	Same as above.	
30	88	AAB0480 Dup: AAB0481	HNu-ND Rad-117	27.5-30 12	27.8-29.4-Medium brown, silty fine sand with pumice and tuff cobbles and pebbles. 29.4-30-Medium brown, clayey silty sand, damp.	Sample 27.8-30 feet.

Prepared By: Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-17 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft.
Date/Time Start: 9/12/94, 1000
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

End: 9/12/94,1900

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
30						
	100		HNu-ND Rad-90	30-32.5 13	30-31.8-Medium brown, coarse sugary texture sand. 31.8-32.3-Medium brown silty sand. 32.3-32.5-Same as 30 feet with cobbles of tuff and pumice.	
32.5						
	100		HNu-ND Rad-97	32.5-35 14	32.5-33-Medium brown, sugary texture coarse sand. 33-34-Medium brown, silty sand with tuff cobbles. 34-35-Same as 32.5-33 feet.	
35						
	100		HNu-ND Rad-87	35-37.5 15	35-36-Medium brown, coarse sugary sand. 36-37.5-Medium brown, clayey sand, damp.	
37.5						
	100	AAB0482	HNu-ND Rad-89	37.5-40 16	Medium brown, clayey sand, some pumice pebbles, some Fe staining, damp.	Sample 37.5-40 feet.
40						
	100		HNu-ND Rad-96	40-42.5 17	Medium brown, clayey sand with some pumice and dacite pebbles, more damp.	
42.5						
	100		HNu-ND Rad-82	42.5-45 18	Dark brown, clayey fine sand and weathered pumice, with pebbles, damp.	
45						
	100		HNu-ND Rad-94	45-47.5 19	45-46.8-Damp weathered pumice. 46.8-46.9-Coarse sugary sand. 46.9-47.2-Weathered pumice. 47.2-47.5-Medium brown, dry, coarse sugary sand.	
47.5						
	96	AAB0483	HNu-ND Rad-111	47.5-50 20		
50					47.6-47.7-Coarse sugary sand. 47.7-48.6-Medium brown coarse pumice sand. 48.6-49.7-Gray pumice, fine clayey damp sand with Fe stain. 49.7-50-Light brown pumice.	Sample 47.6-50 feet.
	96		HNu-ND Rad-115	50-52.5 21		
52.5						
	100		HNu-ND Rad-117	52.5-55 22	50.1-51.5-Purplish brown tuff with brown, coarse pumice sand; Fe staining. 51.5-52.3-Gray, damp, very fine sand with Fe staining. 52.3-52.5-Gray weathered pumice.	
55						
					52.5-52.7-Wet, brown clayey sand. 52.7-55-Grayish brown, sugary, dry coarse sand with pumice.	

Prepared By: Kenneth A. Rivals Jr. Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-17 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft.
Date/Time Start: 9/12/94, 1000
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

End: 9/12/94, 1900

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
55	100		HNu-ND Rad-93	55-57.5 23	55-55.6-Same as 52.7-55 feet. 55.6-56.1-Gray pumice. 56.1-57.5-Damp, gray, fine pumice sand with Fe staining.	
57.5	96	AAB0484	HNu-ND Rad-107	57.5-60 24	57.6-57.9-Weathered tuff with Fe stain. 57.9-60-Brown, damp, clayey sand with Fe staining.	Sample 57.6-60 feet.
60	80		HNu-ND Rad-90	60-62.5 25	60.5-61.3-Same as 57.9-60 ft. 61.3-61.6-Purplish brown tuff. 61.6-62.5-Very damp, brown, clayey sand with tuff cobbles.	
62.5	100		HNu-ND Rad-99	62.5-65 26		
65	100		HNu-ND Rad-101	65-67.5 27	62.5-63.9-Reddish brown, wet, medium pumice sand, Fe stain. 63.9-64.5-Light reddish brown coarse sand with Fe stain. 64.5-65-Fe stained sand.	
67.5	100	AAB0485	HNu-ND Rad-120	67.5-70 28	65-65.3-Wet, reddish brown, coarse pumice sand. 65.3-67.5-Wet, light brown, coarse pumice sand.	
70	80		HNu-ND Rad-121	70-75 29	67.5-68.5-Wet, light brown, coarse pumice sand. 68.5-68.7-Dacite cobbles. 68.7-69.2-Fe stained pumice. 69.2-70-Light brown, damp, medium, pumice sand.	Sample 67.5-70 feet.
75	100		HNu-ND Rad-97	75-77.5 30	71-71.5-Medium brown, wet, pumice sand. 71.5-72.5-Medium brown, damp, coarse pumice sand. 72.5-73-Medium brown, damp, silty medium sand. 73-75-Medium brown, damp, medium to coarse pumice sand.	Run = 5 feet.
77.5	100	AAB0486	HNu-ND Rad-85	77.5-80 31	Light brown, medium pumice sand with gravel, tuff and pumice cobbles.	
80					Light brown, medium to coarse pumice sand.	Sample 77.5-80 feet.
					TOTAL DEPTH: 80 FEET	

Prepared By: Kenneth A. Shields Jr. Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | FIELD SCREENING LOG

TA/OU 39/1132 Borehole ID: ASC-17 Checked By: KAS Date: Page 1 of 2

Run		Hazard	Screening	Reading	Acceptance Criteria		Technician's
No.	Interval		Method		BELOW	ABOVE	Certification
1	0.5-2.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	110	X		
2	2.5-5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	92	X		
3	5-7.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	98	X		
4	7.5-10	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	87	X		
5	10-12.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	82	X		
6	12.5-15	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	93	X		
7	15-17.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	97	X		
8	17.5-20	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	100	X		
9	20-22.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	101	X		
10	22.5-25	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	111	X		
11	25-27.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	104	X		
12	27.5-30	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	117	X		
13	30-32.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	90	X		
14	32.5-35	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	97	X		
15	35-37.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	87	X		
16	37.5-40	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	89	X		
17	40-42.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	96	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | FIELD SCREENING LOG

TA/OU 39/1132 Borehole ID: ASC-17 Checked By: KAS Date: Page 2 of 2

Run No.	Run Interval	Hazard	Screening Method	Reading	Acceptance Criteria BELOW	Acceptance Criteria ABOVE	Technician's Certification
18	42.5-45	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	82	X		
19	45-47.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	94	X		
20	47.5-50	50	HNu	ND	X		
	"	RAD	449 Ludlum	111	X		
21	50-52.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	115	X		
22	52.5-55	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	117	X		
23	55-57.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	93	X		
24	57.5-60	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	107	X		
25	60-62.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	90	X		
26	62.5-65	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	99	X		
27	65-67.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	101	X		
28	67.5-70	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	120	X		
29	70-75	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	121	X		
30	75-77.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	97	X		
31	77.5-80	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	85	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-17

SAMPLE CONTAINER TOTAL: 8

DOCUMENTATION	ARRIVED AT SMF?

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME
TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:15
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth A. Shirley Jr.	11-4-94 11:15

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE	
FCT 0001601	0.5	10.0	001	CORE			0.5	1.2	UNREC	
							1.2	2.5	REC	
							2.5	3.0	UNREC	
							3.0	5.0	REC	
							5.0	5.1	UNREC	✓
							5.1	7.5	REC	
							7.5	8.2	REC	
							8.2	10.0	SPC-Fld	
FCT 0001602	10.0	20.0	002	CORE			10.0	10.3	UNREC	
							10.3	12.5	REC	
							12.5	12.6	UNREC	
							12.6	17.5	REC	✓
							17.5	17.9	UNREC	
							17.9	20.0	SPC-Fld	
FCT 0001603	20.0	30.0	003	CORE			20.0	20.1	UNREC	
							20.1	22.5	REC	
							22.5	23.1	UNREC	
							23.1	25.0	REC	✓
							25.0	25.2	UNREC	
							25.2	27.5	REC	
							27.5	27.8	UNREC	
							27.8	30.0	SPC-Fld	
FCT 0001604	30.0	40.0	004	CORE			30.0	37.5	REC	
							37.5	40.0	SPC-Fld	✓

FOR SMF USE
Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-17

SAMPLE CONTAINER TOTAL: 8

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME

DOCUMENTATION ARRIVED AT SMF?	TRANSPORT TO SMF	
	PERSON ACCEPTING CUSTODY	DATE AND TIME
	Adrianna Sparks	11-4-94 11:15
	PERSON RELEASING CUSTODY	DATE AND TIME
	Kenneth A. Shirley Jr.	11-4-94 11:15

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE
FCT 0001605	40.0	50.0	005	CORE			40.0	47.5	REC ✓
							47.5	47.6	UNREC
							47.6	50.0	SPC-Fld
FCT 0001606	50.0	60.0	006	CORE			50.0	50.1	UNREC
							50.1	57.5	REC ✓
							57.5	57.6	UNREC
							57.6	60.0	SPC-Fld
FCT 0001607	60.0	70.0	007	CORE			60.0	60.5	UNREC
							60.5	67.5	REC ✓
							67.5	70.0	SPC-Fld
FCT 0001608	70.0	80.0	008	CORE			70.0	71.0	UNREC
							71.0	77.5	REC ✓
							77.5	80.0	SPC-Fld

FOR SMF USE
Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 39/1152 Borehole ID ASC-17 Checked By _____ Date _____ Page 1 of 2

Photographed By C. BIRNEY Date 9/12/94

Roll		Exposure			Run		Box		Other
No.	ASA	No.	f-stop	Speed	No.	Interval	Bar Code #	Interval	
16	200	1			1	0.5-2.5	1601	0.5-10	
		2			2	2.5-5	"	"	
		3			3	5-7.5	"	"	
		4			4	7.5-10	1601	0.5-10	
		5			5	10-12.5	1602	10-20	
		6			6	12.5-15	"	"	
		7			7	15-17.5	"	"	
		8			8	17.5-20	1602	10-20	
		9			9	20-22.5	1603	20-30	
		10			10	22.5-25	"	"	
		11			11	25-27.5	"	"	
		12			12	27.5-30	1603	20-30	
		13			13	30-32.5	1604	30-40	
		14			14	32.5-35	"	"	
		15			15	35-37.5	"	"	
		16			16	37.5-40	1604	30-40	
		17			17	40-42.5	1605	40-50	
		18			18	42.5-45	"	"	
		19			19	45-47.5	"	"	
		20			20	47.5-50	1605	40-50	
		21			21	50-52.5	1606	50-60	
		22			22	52.5-55	"	"	
		23			23	55-57.5	"	"	
		24			24	57.5-60	1606	50-60	
		25			25	60-62.5	1607	60-70	
		26			26	62.5-65	"	"	
		27			27	65-67.5	"	"	
		28			28	67.5-70	1607	60-70	

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization CST-9

Telephone ( ) _____

Form Completed By C. BIRNEY Date 9-13-94 Page 1 of 2

Borehole ID ASC-17 TA/OU 39 / 1132

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
3094	✓	0-0.5 / 9-12-94	✓	✓	✓
3095	✓	8.2-10 (1/2 core) / 9-12-94	✓	✓	✓
3096	✓	17.9-20 (1/2 core) / 9-12-94	✓	✓	✓
3097	✓	27.8-30 (1/2 core) / 9-12-94	✓	✓	✓
3098	✓	37.5-40 (1/2 core) / 9-12-94	✓	✓	✓
4361	✓	47.6-50 (1/2 core) / 9-12-94	✓	✓	✓
4362	✓	57.6-60 (1/2 core) / 9-12-94	✓	✓	✓
4368	✓	67.5-70 (1/2 core) / 9-12 94	✓	✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody _____ Person Accepting Custody _____

Date/ Time _____ Date/ Time _____

ENSE ONLY Checked By _____ Date _____

R.1

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 39/1132 Borehole ID ASC-17 Checked By _____ Date _____ Page 2 of 2

Photographed By Cherry Date 9/12/94

Roll		Exposure			Run		Box		Other
No.	ASA	No.	f-stop	Speed	No.	Interval	Bar Code #	Interval	
16	200	29			29	70-75	1608	70-80	5' run
		30			30	75-77.5	1	1	
		31			31	77.5-80	1608	70-80	

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization CST-9

Telephone ( ) _____

Form Completed By C. BIRNEY Date 9-13-94 Page 2 of 2

Borehole ID ASC-1 TA/OU 39 / 1132

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
4369	✓	77.5-80 (½ rnd) / 9-12-94	✓	✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody: _____ Person Accepting Custody: _____

Date/ Time _____ Date/ Time _____

SMF USE ONLY Checked By _____ Date _____

R.1

TARGET PAGE

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ER ID # 76868

RECORD TYPE: PHOTOS

DATE: 041132

SYMBOL: PRS 39-001(B)

SUBJECT: ASC-17 (31 PHOTOS)

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-18 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft. Page: 1 of: 4
Date/Time Start: 9/14/94, 0900 End: 9/14/94, 1730
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
	60	Surface AAB0488	HNu-ND Rad-95	0.5-2.5 1	0-0.5-Medium brown, silty sandy loam. 1.3-2.5-Medium brown, silty fine sand, some pumice.	Surface sample-0-0.5 feet.
2.5	100		HNu-ND Rad-115	2.5-5 2	2.5-3.7-Same as above. 3.7-5-Medium brown, coarse sugary sand.	
5	52		HNu-ND Rad-102	5-7.5 3	6.2-7.3-Same as 3.7-5 feet. 7.3-7.5-Medium brown, silty sand with pumice clasts.	
7.5	84	AAB0489	HNu-ND Rad-96	7.5-10 4	7.9-9.8-Medium brown, sugary coarse sand, some pumice. 9.8-10-Medium brown silty sand.	Sample 7.9-10 feet.
10	68		HNu-ND Rad-90	10-12.5 5	10.8-12.1-Medium brown, sugary coarse sand. 12.1-12.4-Medium brown, coarse clayey sugary sand. 12.4-12.5-Same as 10.8-12.1 ft.	
12.5	68		HNu-ND Rad-91	12.5-15 6	Medium brown, sugary, coarse sand with pumice clasts, dry.	
15	72		HNu-ND Rad-93	15-17.5 7	Same as above, with sanidine crystals, damp.	
17.5	72	AAB0490	HNu-ND Rad-108	17.5-20 8	18.2-19.1-Same as above with pumice cobbles. 19.1-20-Medium brown, damp, silty medium sand, some pumice.	Sample 18.2-20 feet.
20	72		HNu-ND Rad-80	20-22.5 9	Medium brown, sugary, coarse sand with sanidine crystals and pumice.	
22.5	80		HNu-ND Rad-90	22.5-25 10	Same as above, more pumice.	
25	84		HNu-ND Rad-103	25-27.5 11	Same as above, with gravel layer at 25.6 to 26 feet.	
27.5	100	AAB0491	HNu-ND Rad-94	27.5-30 12	27.5-29.7-Medium brown, sugary coarse sand with pumice. 29.7-30-Same as above, damp and slightly clayey.	Sample-27.5-30 feet.
30						

Prepared By: Kenneth G. Hisley Jr. Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-18 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft. Page: 2 of: 4
Date/Time Start: 9/14/94, 0900 End: 9/14/94, 1730
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
30	92		HNu-ND Rad-80	30-32.5 13	Same as above 29.7 to 30 feet, pumice pebbles and clasts.	
32.5	100		HNu-ND Rad-109	32.5-35 14	Clayey, sugary coarse sand, with pumice, damp.	
35	100		HNu-ND Rad-95	35-37.5 15	35-36.4-Same as above, more damp, with gravel. 36.4-37.5-Medium brown, clayey fine sand with pumice, damp.	
37.5	100	AAB0492	HNu-5 ND open Rad-116	37.5-40 16	Same as 36.4 to 37.5 feet, more pumice.	Sample 37.5-40 feet.
40	96		HNu-ND Rad-117	40-42.5 17	40.1-40.9-Damp, medium brown, medium sand with pumice and sanidine. 40.9-41.1-Pinkish brown pumice. 41.1-42.5-Damp, medium brown, clayey sand.	
42.5	100		HNu-ND Rad-93	42.5-45 18	42.5-42.7-Same as 41.1-42.5 ft. 42.7-43.1-Medium brown, coarse sand, dry. 43.1-44.6-Same as 42.5-47.5 ft. 44.6-45-Damp, medium brown, coarse pumice sand.	
45	88		HNu-ND Rad-112	45-47.5 19	45.3-45.4-Medium brown, damp, coarse sand. 45.4-45.7-Medium brown, clayey sand. 45.7-47.3-Medium to light brown, coarse sand with pumice. 47.3-47.5-Grayish brown, damp, medium sand.	
47.5	100	AAB0493	HNu-ND Rad-107	47.5-50 20	47.5-47.7-Medium brown, silty medium sand. 47.7-48.3-Damp coarse sand. 48.3-48.5-Medium brown, silty sand. 48.5-50-Medium to grayish brown, coarse sand with pumice cobbles.	Sample-47.5-50 feet.
50	100		HNu-ND Rad-108	50-52.5 21	50-52.3-Damp, medium to grayish brown, coarse sand with Fe stain and pumice cobbles. 52.3-52.5-Medium brown, clayey sand, very damp.	
52.5						

Prepared By: Kenneth A. Shirley Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-18 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft. Page: 3 of: 4
Date/Time Start: 9/14/94, 0900 End: 9/14/94, 1730
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
52.5						
	100		HNu-ND Rad-99	52.5-55 22	52.5-53.5-Medium brown, coarse pumice sand with clasts. 53.5-55-Medium to light brown, sugary coarse sand with pumice.	
55						
	100		HNu-ND Rad-109	55-57.5 23	55-55.2-Damp, medium brown clayey sand. 55.2-56.5-Medium brown, coarse sugary sand with pumice.	
57.5						
	100	AAB0494	HNu-ND Rad-90	57.5-60 24	56.5-56.6-Fe stained coarse sand. 56.6-57.3-Same as 55.2-56.5 ft. 57.3-57.5-Gray, damp, coarse sand.	
60						
	100		HNu-ND Rad-104	60-62.5 25	57.5-57.7-Tan, clayey sand. 57.7-58-Dark gray clay. 58-58.1-Dark gray silty sand. 58.1-58.3-Dark gray, very damp, coarse sand. 58.3-60-Gray, silty fine to coarse sand.	Sample-57.5-60 feet.
62.5						
	67		HNu-ND Rad-97	62.5-64 26	60-60.1-Wet coarse gray sand. 60.1-61.4-Dense, gray silty fine sand, damp, Fe stain. 61.4-61.6-Fe stained, damp, medium silty sand. 61.6-61.7-Gray fine silty sand. 61.7-62.4-Grayish brown, medium silty sand. 62.4-62.5-Tuff and pumice sand.	
64					63-63.8-Brownish gray, clayey silty coarse sand with pumice and dacite cobbles. 63.8-64-Purplish brown tuff.	Run = 1.5 feet.

Prepared By: Kenneth A. Shuby Jr. Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-18 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft. Page: 4 of: 4
Date/Time Start: 9/14/94, 0900 End: 9/14/94, 1730
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
64	0			64-67.5 27	No recovery.	Drilled with center bit from 64 to 67.5 feet.
67.5	100	AAB0495	HNu-ND Rad-80	67.5-70 28	67.5-69.3-Saturated, light to medium brown, coarse pumice sand with gravel, dacite cobbles, Fe staining.	Sample-67.5-70 feet.
70	100		HNu-ND Rad-96	70-72.5 29	69.3-70-Saturated, light brown coarse pumice sand.	
72.5	100		HNu-ND Rad-89	72.5-75 30	Saturated, light to medium brown, coarse pumice sand.	
75	100		HNu-ND Rad-112	75-77.5 31	72.5-74.1-Saturated, medium brown, coarse pumice sand with dacite cobbles, Fe stain. 74.1-74.3-Damp, medium brown pumice sand. 74.3-75-Dry, light brown, medium pumice sand.	
77.5	100	AAB0496	HNu-ND Rad-91	77.5-80 32	75-76.8-Saturated, medium brown, coarse pumice sand with dacite cobbles and gravel. 76.8-77.5-Damp, light brown, medium pumice sand.	
80					77.5-78.5-Saturated, medium brown, coarse pumice sand and gravel with cobbles. 78.5-80-Light brown, damp, silty sand.	Sample-77.5-80 feet.
					TOTAL DEPTH: 80 FEET	

Prepared By: Kenneth A. Shultz Jr. Date: 10/28/94 Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-18

SAMPLE CONTAINER TOTAL: 8

DOCUMENTATION	ARRIVED AT SMF?

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME
TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:15
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth A. Rhiley Jr.	11-4-94 11:15

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE
FCT 0001621	0.5	10.0	001	CORE			0.5	1.3	UNREC
							1.3	5.0	REC
							5.0	6.2	UNREC
							6.2	7.5	REC ✓
							7.5	7.9	UNREC
							7.9	10.0	SPC-Fld
FCT 0001622	10.0	20.0	002	CORE			10.0	10.8	UNREC
							10.8	12.5	REC
							12.5	13.3	UNREC
							13.3	15.0	REC ✓
							15.0	15.7	UNREC
							15.7	17.5	REC
							17.5	18.2	UNREC
							18.2	20.0	SPC-Fld
FCT 0001623	20.0	30.0	003	CORE			20.0	20.7	UNREC
							20.7	22.5	REC
							22.5	23.0	UNREC ✓
							23.0	25.0	REC
							25.0	25.4	UNREC
							25.4	27.5	REC
							27.5	30.0	SPC-Fld
FCT 0001624	30.0	40.0	004	CORE			30.0	30.2	UNREC
							30.2	37.5	REC ✓
							37.5	40.0	SPC-Fld

FOR SMF USE
Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-18

SAMPLE CONTAINER TOTAL: 8

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME

DOCUMENTATION	ARRIVED AT SMF?

TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:15
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth A. Shiley Jr.	11-4-94 11:15

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE	
FCT 0001625	40.0	50.0	005	CORE			40.0	40.1	UNREC	
							40.1	45.0	REC	
							45.0	45.3	UNREC	✓
							45.3	47.5	REC	
							47.5	50.0	SPC-Fld	
FCT 0001626	50.0	60.0	006	CORE			50.0	57.5	REC	✓
							57.5	60.0	SPC-Fld	
FCT 0001627	60.0	72.5	007	CORE			60.0	62.5	REC	
							62.5	63.0	UNREC	
							63.0	64.0	REC	
							64.0	67.5	NAT	✓
							67.5	70.0	SPC-Fld	
							70.0	72.5	REC	
FCT 0001628	72.5	80.0	008	CORE			72.5	77.5	REC	
							77.5	80.0	SPC-Fld	✓

FOR SMF USE
Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | FIELD SCREENING LOG

TA/OU 39/1132 Borehole ID: ASC-18 Checked By: KAS Date: Page 1 of 2

Run		Hazard	Screening	Reading	Acceptance Criteria		Technician's
No.	Interval		Method		BELOW	ABOVE	Certification
1	0.5-2.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	95	X		
2	2.5-5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	115	X		
3	5-7.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	102	X		
4	7.5-10	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	96	X		
5	10-12.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	90	X		
6	12.5-15	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	91	X		
7	15-17.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	93	X		
8	17.5-20	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	108	X		
9	20-22.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	80	X		
10	22.5-25	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	90	X		
11	25-27.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	103	X		
12	27.5-30	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	94	X		
13	30-32.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	80	X		
14	32.5-35	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	109	X		
15	35-37.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	95	X		
16	37.5-40	VOC	HNu	5-closed	X		
	"	VOC	HNu	ND-open	X		
	"	RAD	449 Ludlum	116	X		
17	40-42.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	117	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | FIELD SCREENING LOG

TA/OU 39/1132 Borehole ID: ASC-18 Checked By: KAS Date: Page 2 of 2

Run No.	Run Interval	Hazard	Screening Method	Reading	Acceptance Criteria BELOW	Acceptance Criteria ABOVE	Technician's Certification
18	42.5-45	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	93	X		
19	45-47.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	112	X		
20	47.5-50	50	HNu	ND	X		
	"	RAD	449 Ludlum	107	X		
21	50-52.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	108	X		
22	52.5-55	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	99	X		
23	55-57.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	109	X		
24	57.5-60	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	90	X		
25	60-62.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	104	X		
26	62.5-64	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	97	X		
27	64-67.5	NO RECOVERY					
28	67.5-70	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	80	X		
29	70-72.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	96	X		
30	72.5-75	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	89	X		
31	75-77.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	112	X		
32	77.5-80	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	91	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 39/1132 Borehole ID ASC-18 Checked By _____ Date _____ Page 1 of 2

Photographed By Cathleen Birney Date 9-14-94

Roll		Exposure			Run		Box		Other
No.	ASA	No.	f-stop	Speed	No.	Interval	Bar Code #	Interval	
	100	1			1	0.5-2.5	1621	0.5-16	
		2			2	2.5-5	"	"	
		3			3	5-7.5			
		4			4	7.5-10	1621	0.5-10	
		Missed			5	10-12.5	1622	10-20	
		5			6	12.5-15	"	"	
		6			7	15-17.5			
		7			8	17.5-20	1622	10-20	
		8			9	20-22.5	1623	20-30	
		9			10	22.5-25	"	"	
		10			11	25-27.5	"	"	
		11			12	27.5-30	1623	20-30	
		12			13	30-32.5	1624	30-40	
		13			14	32.5-35	"	"	
		14			15	35-37.5			
		15			16	37.5-40	1624	30-40	
		16			17	40-42.5	1625	40-50	
		17			18	42.5-45	"	"	
		18			19	45-47.5			
		19			20	47.5-50	1625	40-50	
		20			21	50-52.5	1626	50-60	
		21			22	52.5-55	"	"	
		22			23	55-57.5			
		23			24	57.5-60	1626	50-60	
		24			25	60-62.5	1627	60-725	
		25			26	62.5-64			
		—			27	64-67.5			Center Lit No Recovery
		26			28	67.5-70			
		27			29	70-72.5	1627	60-725	

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 39/1132 Borehole ID ASC-18 Checked By _____ Date _____ Page 2 of 2

Photographed By Cathleen Birney Date 9-14-94

Roll		Exposure			Run		Box		Other
No.	ASA	No.	f-stop	Speed	No.	Interval	Bar Code #	Interval	
	100	28			30	72.5-75	1628	72.5-80	
		29			31	75-77.5	"	"	
		30			32	77.5-80	1628	72.5-80	

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization CST-9

Telephone ( ) _____

Form Completed By Ken Shisler Date 9-14-94 Page 1 of 2

Borehole ID ASC-18 TA/OU 39 / 1132

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
4370	✓	0 - 0.5 / 9-14-94	✓	✓	✓
4371	✓	~~7.5~~ 7.3 - 10 (½ core) RAS 9-14-94 / 9-14-94	✓	✓	✓
4372	✓	18.3 - 20 (½ core) / 9-14-94	✓	✓	✓
4373	✓	27.5 - 30 (½ core) / 9-14-94	✓	✓	✓
4374	✓	37.5 - 40 (½ core) / 9-14-94	✓	✓	✓
4375	✓	47.5 - 50 (½ core) / 9-14-94	✓	✓	✓
4376	✓	57.5 - 60 (½ core) / 9-14-94	✓	✓	✓
4377	✓	67.5 - 70 (½ core) / 9-14-94	✓	✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody _____ Person Accepting Custody _____

Date/ Time _____ Date/ Time _____

SMF USE ONLY Checked By _____ Date _____

R.1

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization CST-9

Telephone ( ) _____

Form Completed By Ken Shisler Date 9-14-94 Page 2 of 2

Borehole ID ASC-18 TA/OU 39 / 1132

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
4378	✓	77.5-80 (½ core) / 9-14-94	✓	✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody _____ Person Accepting Custody: _____

Date/ Time _____ Date/ Time _____

ENE USE ONLY Checked By _____ Date _____

R.1

TARGET PAGE

This target page represents media that was not scanned. The original media can be obtained through the Records Processing Facility.

ER ID # 76868

RECORD TYPE: PHOTOS

DATE: 04/1132

SYMBOL: PRS 39-001(B)

SUBJECT:

ASC-18 (32 Photos)

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-19 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 79 ft.
Date/Time Start: 9/7/94, 0900
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

End: 9/8/94, 1200

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
2.5	65	Surface AAB0499	HNu-ND Rad-94	0.5-2.5 1	0.0-0.5- Medium brown silty sand. 1.2-2.0-Medium brown, silty, clayey sand.	Surface sample-0-0.5 feet.
5	76		HNu-ND Rad-101	2.5-5 2	2.1-4.7-Medium brown, damp, silty, clayey sand. 4.7-5-Light brown, dry, coarse sand.	
7.5	80		HNu-ND Rad-97	5-7.5 3	Light grayish brown to medium brown, coarse sand with pebbles.	
10	60	AAB0500	HNu-ND Rad-89	7.5-10 4	Medium brown, coarse sand with pumice pebbles.	Sample 8.5-10 feet.
12.5	88		HNu-ND Rad-93	10-12.5 5	10.3-12-Medium brown, damp, coarse sand with pumice. 12-12.5-Medium brown, damp silty sand.	
15	96		HNu-ND Rad-112	12.5-15 6	Medium brown, more damp, coarse sand with pumice.	
17.5	68		HNu-ND Rad-99	15-17.5 7	15.8-16.5-Medium brown, damp, coarse sand. 16.5-17.5-Medium brown, damp, medium sand.	
20	100	AAB0501	HNu-ND Rad-100	17.5-20 8	17.5-19.5-Very damp, medium brown, clayey sand with cobbles. 19.5-20-Damp, medium brown, coarse sand.	Sample 17.5-20 feet.
22.5	100		HNu-ND Rad-88	20-22.5 9	Medium brown, damp, coarse sand with pumice.	
25	88		HNu-ND Rad-105	22.5-25 10	22.8-24.8-Medium brown, damp, coarse sand with pumice. 24.8-24.9-Purplish brown tuff. 24.9-25-Medium brown coarse sand.	
27.5	88		HNu-ND Rad-107	25-27.5 11	Medium brown, coarse sand with tuff cobbles and dacite pebbles.	

Prepared By: Kenneth O. Shirley Jr. Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-19 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 79 ft.
Date/Time Start: 9/7/94, 0900
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

End: 9/8/94, 1200

Depth (Feet)	Recovery (Feet/Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
27.5	100	AAB0502	HNu-ND Rad-92	27.5-30 12	27.5-28.5-Coarse sand with purplish brown tuff cobbles, damp. 28.5-28.9-Medium brown, damp, clayey sand. 28.9-29-Medium brown, coarse sand. 29-30-Damp, medium, brown clayey sand.	Sample 27.5-30 feet.
30	100		HNu-ND Rad-102	30-32.5 13	Medium brown, damp, clayey silty sand with some pumice.	
32.5	100		HNu-ND Rad-106	32.5-35 14	32.5-32.7-Medium brown, coarse sand. 32.7-35-Medium brown, damp, clayey silty sand with some coarse sand and pumice.	
35	100		HNu-ND Rad-113	35-37.5 15	More damp, medium brown, clayey silty sand with pumice pebbles.	
37.5	100	AAB0503	HNu-ND Rad-111	37.5-40 16	Damp, medium brown, clayey silty sand, some pumice and medium sand.	Sample 37.5-40 feet.
40	100		HNu-ND Rad-94	40-42.5 17	40-41.8-Medium brown, damp, clayey silty sand, some pumice. 41.8-42.5-Medium brown, damp, medium sand with pumice.	
42.5	100		HNu-ND Rad-104	42.5-45 18	42.5-42.6-Damp, medium brown, clayey sand. 42.6-45-Light to medium brown, sugary texture, coarse sand with tuff cobbles.	
45	100		HNu-ND Rad-114	45-47.5 19	45-47-Damp, medium brown, sugary texture coarse sand. 47-47.5-Damp, medium brown, silty sand with pumice.	
47.5	92	AAB0504	HNu-ND Rad-94	47.5-50 20	47.7-49-Medium brown, very damp, clayey sand with pumice. 49-50-Damp, medium brown, sugary texture coarse sand.	Sample 47.7-50 feet.
50	100		HNu-ND Rad-82	50-52.5 21	50-51.2-Medium brown, damp coarse sand. 51.2-51.7-Purplish brown tuff. 51.7-52.2-Medium brown, coarse sand. 52.2-52.5-Medium brown, damp clayey sand.	
52.5						

Prepared By: Kenneth A. Shields Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-19 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 79 ft.
Date/Time Start: 9/7/94, 0900
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Page: 3 of: 3
End: 9/8/94, 1200

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
52.5	100		HNu-ND Rad-108	52.5-55 22	Medium brown, damp, clayey silty sand with some pumice and sanidine crystals.	
55	100		HNu-ND Rad-115	55-57.5 23	55-56.7-Same as above. 56.7-57.3-Damp, medium brown, coarse sand with pumice pebbles and cobbles, some dacite. 57.3-57.5-Medium brown, damp, clayey silty sand with pumice.	
57.5	80	AAB0505	HNu-ND Rad-107	57.5-60 24	Medium reddish brown pumice sand with pumice and dacite cobbles.	Sample 58-60 feet.
60	0			60-62.5 25	No recovery.	
62.5	100		HNu-ND Rad-96	62.5-65 26	Light brown pumice with Fe stain and some dacite pebbles, damp.	
65	96		HNu-ND Rad-101	65-67.5 27	Very damp to wet pumice with cobbles.	
67.5	100	AAB0506	HNu-ND Rad-100	67.5-70 28	Wet, light brown pumice with Fe staining and cobbles.	Sample 67.5-70 feet.
70	100		HNu-ND Rad-109	70-72.5 29	70-72.4-Same as above. 72.4-72.5- Wet, light brown, clayey sand.	
72.5	100		HNu-ND Rad-114	72.5-75 30	72.5-72.9-Wet pumice. 72.9-73.1-Damp pumice. 73.1-73.4-Damp, medium brown, Fe stained clayey sand.	
75	84		HNu-ND Rad-91	75-77.5 31	73.4-74.6-Medium brown pumice. 74.6-75-Damp, light brown pumice sand.	
77.5	100	AAB0507	HNu-ND Rad-117	77.5-80 32	75.4-75.5-Wet, light brown, silty clayey sand. 75.5-76.5-Light to medium brown pumice. 76.5-77.5-Brown, coarse sand and gravel.	
79					Wet, coarse sand and gravel.	Sample 77.5-79 feet.
					TOTAL DEPTH: 79 FEET	

Prepared By: Kenneth A. Shirley Date: 10/28/94 Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-19

SAMPLE CONTAINER TOTAL: 9

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME

DOCUMENTATION	ARRIVED AT SMF?

TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:24
PERSON RELEASING CUSTODY	DATE AND TIME
Cathleen Bruz	11-4-94 11:24

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE
FCT 0001641	0.5	10.0	001	CORE			0.5	1.2	UNREC
							1.2	2.5	REC
							2.5	3.1	UNREC
							3.1	5.0	REC
							5.0	5.5	UNREC
							5.5	7.5	REC
							7.5	8.5	UNREC
							8.5	10.0	SPC-Fld
FCT 0001642	10.0	20.0	002	CORE			10.0	10.3	UNREC
							10.3	12.5	REC
							12.5	12.6	UNREC
							12.8	15.0	REC
							15.0	15.8	UNREC
							15.8	17.5	REC
							17.5	20.0	SPC-Fld
FCT 0001643	20.0	30.0	003	CORE			20.0	22.5	REC
							22.5	22.8	UREC
							22.8	25.0	REC
							25.0	25.3	UNREC
							25.3	27.5	REC
							27.5	30.0	SPC-Fld
FCT 0001644	30.0	35.0	004	CORE			30.0	35.0	REC

FOR SMF USE
Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-19

SAMPLE CONTAINER TOTAL: 9

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME

DOCUMENTATION	ARRIVED AT SMF?

TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:24
PERSON RELEASING CUSTODY	DATE AND TIME
Cathleen Kamps	11/4/94 11:24

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE
FCT 0001645	35.0	42.5	005	CORE			35.0	37.5	REC
							37.5	40.0	SPC-Fld ✓
							40.0	42.5	REC
FCT 0001646	42.5	52.5	006	CORE			42.5	47.5	REC
							47.5	47.7	UNREC ✓
							47.7	50.0	SPC-Fld
							50.0	52.5	REC
FCT 0001647	52.5	65.0	007	CORE			52.5	57.5	REC
							57.5	58.0	UNREC
							58.0	60.0	SPC-Fld
							60.0	62.5	UNREC ✓
							62.5	65.0	REC
FCT 0001648	65.0	72.5	008	CORE			65.0	65.1	UNREC ✓
							65.1	67.5	REC
							67.5	70.0	SPC-Fld
							70.0	72.5	REC
FCT 0001649	72.5	79.0	009	CORE			72.5	75.0	REC
							75.0	75.4	UNREC
							75.4	77.5	REC
							77.5	79.0	SPC-Fld

FOR SMF USE
Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | FIELD SCREENING LOG

TA/OU 39/1132 Borehole ID: ASC-19 Checked By: KAS Date: Page 1 of 2

Run		Hazard	Screening	Reading	Acceptance Criteria		Technician's
No.	Interval		Method		BELOW	ABOVE	Certification
1	0.5-2.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	94	X		
2	2.5-5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	101	X		
3	5-7.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	97	X		
4	7.5-10	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	89	X		
5	10-12.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	93	X		
6	12.5-15	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	112	X		
7	15-17.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	99	X		
8	17.5-20	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	100	X		
9	20-22.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	88	X		
10	22.5-25	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	105	X		
11	25-27.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	107	X		
12	27.5-30	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	92	X		
13	30-32.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	102	X		
14	32.5-35	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	106	X		
15	35-37.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	113	X		
16	37.5-40	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	111	X		
17	40-42.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	94	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | FIELD SCREENING LOG

TA/OU 39/1132 Borehole ID: ASC-19 Checked By: KAS Date: Page 2 of 2

Run No.	Run Interval	Hazard	Screening Method	Reading	Acceptance Criteria BELOW	Acceptance Criteria ABOVE	Technician's Certification
18	42.5-45	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	104	X		
19	45-47.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	114	X		
20	47.5-50	50	HNu	ND	X		
	"	RAD	449 Ludlum	94	X		
21	50-52.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	82	X		
22	52.5-55	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	108	X		
23	55-57.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	115	X		
24	57.5-60	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	107	X		
25	60-62.5	NO RECOVERY			X		
26	62.5-65	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	96	X		
27	65-67.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	101	X		
28	67.5-70	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	100	X		
29	70-72.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	109	X		
30	72.5-75	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	114	X		
31	75-77.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	91	X		
32	77.5-80	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	117	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 5T/1132 Borehole ID ASC-19 Checked By _____ Date 9/8/94 Page 1 of 2

Photographed By C. BIRNEY Date 9/7-9/8/94

Roll		Exposure			Run		Box		Other
No.	ASA	No.	f-stop	Speed	No.	Interval	Bar Code #	Interval	
15	200	1			1	0.5-2.5	1641	0.5-10	
		2			2	2.5-5	"	"	
		3			3	5-7.5	"	"	
		4			4	7.5-10	1641	0.5-10	
		5			5	10-12.5	1642	10-20	
		6			6	12.5-15	"	"	
		8			7	15-17.5	"	"	
		9			8	17.5-20	1642	10-20	
		10			9	20-22.5	1643	20-30	
		11			10	22.5-25	"	"	
		12			11	25-27.5	"	"	
		13			12	27.5-30	1643	20-30	
		14			13	30-32.5	1644	30-35	
		15			14	32.5-35	1644	30-35	
		16			15	35-37.5	1645	35-42.5	
		17			16	37.5-40	"	"	
		18			17	40-42.5	1645	35-42.5	
		19			18	42.5-45	1646	42.5-52.5	
		20			19	45-47.5	"	"	
		21			20	47.5-50	"	"	
		22			21	50-52.5	1646	42.5-52.5	
		23			22	52.5-55	1647	52.5-65	
		24			23	55-57.5	"		
		25			24	57.5-60	"		
		—			25	60-62.5	"		NO recovery
		26			26	62.5-65	1647	52.5-65	
		27			27	65-67.5	1648	65-72.5	
		28			28	67.5-70	"	"	
		29			29	70-72.5	1648	65-72.5	

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 35/1162 Borehole ID AS-19 Checked By ____ Date 9/8/94 Page 2 of 2

Photographed By C BIRSEY Date 9/7/94 - 9/8/94

Roll		Exposure			Run		Box		Other
No	ASA	No	f-stop	Speed	No	Interval	Bar Code #	Interval	
15	200	30			30	72.5-75	1649	72.5-79	
		31			31	75-77.5	1		
		32			32	77.9-79	1649	72.5-79	

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization CST-9

Telephone ( ) _____

Form Completed By C. BIRNEY Date 9/8/94 Page 1 of 2

Borehole ID ASC-19 TA/OU 39 / 1132

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
3108	✓	0-0.5 / 9/7/94	✓	✓	✓
3109	✓	8.5-10 (½ core) / 9/7/94	✓	✓	✓
3110	✓	17.5-20 (½ core) / 9/7/94	✓	✓	✓
3111	✓	27.5-30 (½ core) / 9/7/94	✓	✓	✓
3112	✓	37.5-40 (½ core) / 9/7/94	✓	✓	✓
3113	✓	47.5-50 (½ core) / 9/7/94	✓	✓	✓
4358	✓	~~57.5~~ 58-60 (½ core) / 9/7/94	✓	✓	✓
4359	✓	~~62.5~~ 67.5-70 (½ core) / 9/8/94		✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody: _____ Person Accepting Custody: _____

Date/ Time _____ Date/ Time _____

SITE USE ONLY Checked By _____ Date _____

R.1

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization CST-9

Telephone ( ) _____

Form Completed By C. BIRNEY Date 9/8/94 Page 2 of 2

Borehole ID ASC-19 TA/OU 39 , 1132

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
4360	✓	725-79 (12 core) / 9/8/94	✓	✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody _____ Person Accepting Custody _____

Date/ Time _____ Date/ Time _____

ENSE ONLY Checked By _____ Date _____

R.1

TARGET PAGE

This target page represents media that was not scanned. The original media can be obtained through the Records Processing Facility.

ER ID # 76868

RECORD TYPE:

DATE: OU1132

SYMBOL: PRS 39-001 (B)

SUBJECT: ASC-19 (32 Photos).

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: UM-3 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 56.5 ft. Page: 1 of: 3
Date/Time Start: 7/26/94, 1056 End: 7/29/94, 1140
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Graphic Log	Lithologic Unit	Notes
	0	Surface AAB0510		0.5-2.5 1	No recovery.			Surface sample -0-0.5 feet.
2.5	96	AAB0511	PID-120 ND open Rad-101	2.5-5 2	2.6-4-Fine silty sand, roots, dry. 4-5-Very coarse sand with pebbles and cemented clasts.		SM / SW	Sample 3.9-5 feet. PID-Photovac Microtip
5	60		PID-33 ND open Rad-110	5-7.5 3	Silty, very coarse sand with pebbles, damp at 6.5 feet.		SM	
7.5	64	AAB0512	PID-120 ND open Rad-99	7.5-10 4	Very coarse to fine sand, damp.		SW	Sample 9-10 feet.
10	0			10-12.5 5	No recovery.			
12.5	48	AAB0513	PID-350 ND open Rad-107	12.5-15 6	Very coarse to fine silty sand, dry.		SM	Sample 14-15 feet.
15	40		PID-145 ND open Rad-87	15-17.5 7	Same as above, becoming more silty, some cementation.			
17.5	52	AAB0514	PID-130 ND open Rad-80	17.5-20 8	Very coarse to fine silty sand with pebbles.			Sample 19.2-20 feet.
20	60		PID-14 ND open Rad-	20-22.5 9	Silt with pebbles and tuff cobbles.		ML	
22.5	60	AAB0515	PID-9 ND open Rad-100	22.5-25 10	Same as above with more extremely weathered pink tuff.			Sample 24-25 feet.
25	48		PID-1 ND open Rad-102	25-27.5 11	Dark brown, clayey silt, with extremely weathered tuff.			
27.5	68	AAB0516	PID-4 ND open Rad-91	27.5-30 12	Dark brown, extremely weathered tuff, relict mineralization visible, clayey silt.		Qbt / ML	Sample 29-30 feet.
30								

Prepared By: Kenneth A. Shirley Jr. Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: UM-3 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 56.5 ft. Page: 2 of: 3
Date/Time Start: 7/26/94, 1056 End: 7/29/94, 1140
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Graphic Log	Lithologic Unit	Notes
30	84		PID-1 ND open Rad-118	30-32.5 13	Extremely weathered tuff, clayey silt, increasing clay and moisture content with depth.		Qbt	
32.5	64	AAB0517	PID-10 ND open Rad-120	32.5-35 14	Same as above.		ML	Sample 34.1-35 feet.
35	44		PID-7 ND open Rad-123	35-37.5 15	Same as above, denser.			
37.5	100	AAB0518	PID-ND Rad-119	37.5-40 16	37.5-38.3-Pink tuff. 38.3-39.7-Brown sandy silt with cobbles. 39.7-39.8-Gray clay layer. 39.8-40-Gray, soft weathered tuff.		Qbt SM CL	Sample 38.8-40 feet.
40	100		PID-1 ND open Rad-117	40-42.5 17	40-41.1-Gray, clayey weathered tuff with cobbles and pink tuff clasts, wet. 41.1-41.25-Brown sand, Fe stained, wet. 41.25-41.3-Black clay, wet. 41.3-42.4-Gray clay with relict sand size mineralization, wet. 42.4-42.5-Brown sand, wet.		Qbt SW CL SW	
42.5	100	AAB0519	PID-ND Rad-97	42.5-45 18	Gray, clayey weathered tuff, saturated, very soft altered relict mineralization.		Qbt	Sample 43.8-45 feet.
45								

Prepared By: Kenneth A. Shirley Jr. Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: UM-3 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 56.5 ft. Page: 3 of: 3
Date/Time Start: 7/26/94, 1056 End: 7/29/94, 1140
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Graphic Log	Lithologic Unit	Notes
45	72		PID-ND Rad-103	45-47.5 19	Conglomerate with Fe staining, dacite cobbles, wet.		GW-GM	
47.5	100	AAB0520	PID-ND Rad-96	47.5-50 20	47.5-49-Brown conglomerate, clayey silt. 49-50-Fine beige sand.		GW-GM / SW	Sample 49.3-50 feet. Rig down on 7/24/94 with starter problem at 50 feet.
50	72		FID-ND Rad-95	50-52.5 21	Extremely weathered tuff becoming Fe stained below 51 feet.		Qbt	FID-Foxboro 128
52.5	100	AAB0521	FID-2 ND open Rad-119	52.5-54 22	Brown, medium sand with silt, obsidian and rhyolite pebbles and dacite cobbles.		SW-SM	Sample 53.2-54 feet. Hit hard material at 54 ft., run center bit.
54								
55	100		FID-ND Rad-87	55-56.5 23	Sugary texture, coarse grained tuff with large igneous cobble (dacite ?).		Qbt	Center bit stuck, re-auger hole. Reached 54 ft. with center bit, then went 1 foot with center bit to 55 ft. until auger refusal. Drove split spoon sample 1.5 feet (55-56.5 feet).
56.5					TOTAL DEPTH: 56.5 FEET			

Prepared By: Kenneth O. Shirley Jr. Date: 10/28/94 Checked By: Date:

UM-3

Los Alamos National Laboratory Environmental Restoration
Well Completion Information Form

Page 1

Site Work Plan OU 1132 RFI WP

Technical Area 39 Inclusive Sample Identifier: _____ to _____

Operable Unit 1132

Signature Kenneth A. Shiels Jr. Date 8/2/94

Installation

Owner _____ Installer Stewart Bros. Drilling Co. Date 7/29-8/2/94

Filter Pack Length (ft) 67	Well Type Classification M
Formation of Completion (US/RC)) US	Well Completion Method S
Casing Elevation (ft MSL) _____	Zone of Completion 39.5 - 54.5 ft
Casing Depth (ft) 54.5 ft	Open/Screen Depth (FTFD)* 39.5 ft
Casing Diameter (in.) 4"	Open/Screen Length (ft) 15 ft
Seal End Depth (FTFD) _____	Open/Screen Area (in^2/ft) _____
Screen Material 4" stainless steel	Flow Relationship U
Riser Material 4" stainless steel blank	Cap Material CT
	Cap Type LC

WELL TYPE CLASSIFICATIONS

(M) Monitor Well
P - Production Well
T - Test Well
O - Other (specify) _____

FLOW RELATIONSHIP

(U) Upgradient
D - Downgradient
C - Cross Gradient
O - Onsite
N - Not known
B - Background

CAP TYPE

(LC) Locking
SL - Slip-on
TR - Threaded
NO - None
SC - Screw-on
OT - Other (specify) _____

WELL COMPLETION METHODS

C - Porous Concrete
F - Gravel Pack
H - Horizontal Galley
O - Open End
P - Perforated/Slotted
(S) Screen
T - Sand Front
W - Walled
X - Open
O - Other (specify) _____

CAP MATERIALS

CT - Concrete
CR - Copper
FI - Fiberglass
GI - Galvanized Iron
WI - Wrought Iron
(SS) Stainless Steel
OM - Other Material
TE - Teflon
PV - PVC
RK - Rock or Stone
ST - Steel
TI - Tile
CS - Casted Steel
WD - Wood
NO - None
OT - Other (specify) _____

ZONES OF CONCERN

A - Artesian
C - Confined
H - Acquitard
G - Aquiclude
M - Multisystem
S - Semi-confined
(U) Unconsolidated

* FTFD = feet from datum.

SOP 5.01, R0

VM-3

Los Alamos National Laboratory Environmental Restoration
Well Completion Information Form (continued)

Page 2 of 2

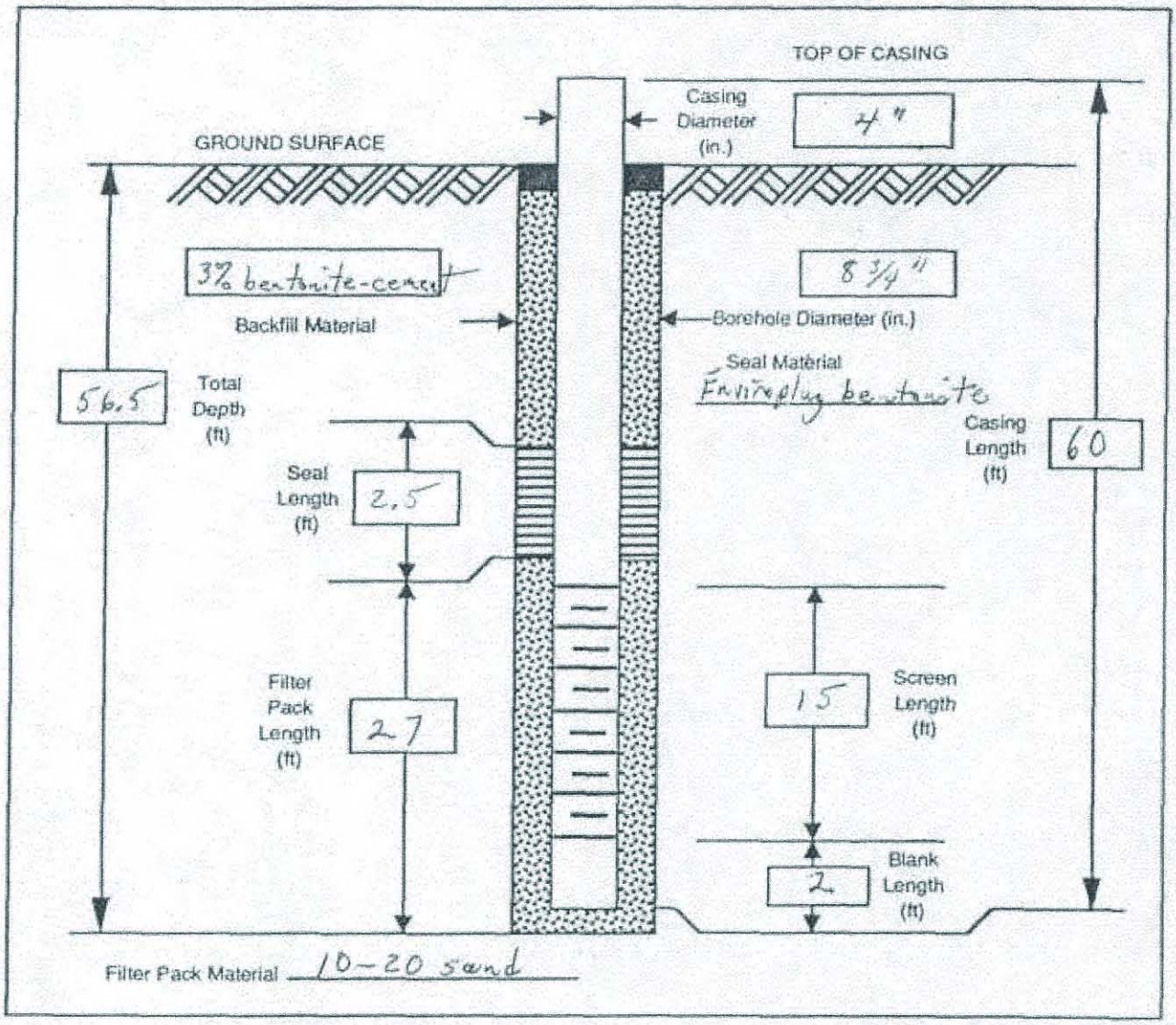
Site Work Plan 03132 RFI WP

Technical Area 39

Inclusive Sample Identifiers _____ to _____

Operable Unit 1132

Signature Kenneth A. Shirley Jr. Date 8/2/94



Comments Colorado Silica Sand 10-20 sand filter

SOP 5.01, R0:3-5-02

VM-3

Los Alamos National Laboratory Environmental Restoration
Monitor Well Construction Field Data Log Sheet ____ of ____

Site Work Plan 00 1132 RFI WP
Technical Area 39
Inclusive Sample Identifiers
Operable Unit 1132 ____ to ____
Signature Kenneth A. Shirley Jr. Date 8/2/94

BOREHOLE SUMMARY

BIT TYPE	HOLE DIAMETER (in.)	END[1] DEPTH (ft)	FLUID TYPE
HSA	8 3/4"	56.5	

CASING SUMMARY

CASING TYPE	DESCRIPTION	DIAM. (in.)	END[2] DEPTH (ft)
P	stainless steel	4	39.5
S	stainless steel	4	54.6
P	stainless steel	4	56.5

P - Protective S - Screen O - Open N - None

[1] Depth from Ground Surface [2] Depth from Toe of Casing

WELL CONSTRUCTION

TYPE[1] CODE	DESCRIPTION	END[1] DEPTH (ft)
S	Cement/5% bentonite	
S	Bentonite	
F	10-20 Sand	

B - Backfill S - Seal F - Filter Pack [1] Depth from Ground Surface

CONSTRUCTION TIME LOG

ACTIVITY	START DATE	START TIME	END TIME
DRILLING	7/24/94	1056	
	7/29/94		1130
CASING	7/29/94	1140	1157
FILTER PACK	7/29/94	1200	1235
SEAL	7/29/94	1424	1436
BACKFILL	8/2/94	0800	0920
DEVELOPMENT			
OTHER			

WELL DEVELOPMENT

no water

COMMENTS:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: UM-3

SAMPLE CONTAINER TOTAL: 6

DOCUMENTATION	ARRIVED AT SMF?

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME

TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:50
PERSON RELEASING CUSTODY	DATE AND TIME
Cathleen Hanson	11-4-94 11:50

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE
FCT 0001341	0.5	17.5	001	CORE			0.5	2.6	UNREC
							2.6	3.9	REC
							3.9	5.0	SPC-Fld
							5.0	6.0	UNREC
							6.0	9.0	REC ✓
							9.0	10.0	SPC-Fld
							10.0	13.8	UNREC
							13.8	14.0	REC
							14.0	15.0	SPC-Fld
							15.0	16.5	UNREC
							16.5	17.5	REC
FCT 0001342	17.5	25.0	002	CORE			17.5	18.7	UNREC
							18.7	19.2	REC
							19.2	20.0	SPC-Fld
							20.0	21.0	UNREC
							21.0	22.5	REC ✓
							22.5	23.5	UNREC
							23.5	24.0	REC
							24.0	25.0	SPC-Fld
FCT 0001343	25.0	32.5	003	CORE			25.0	26.3	UNREC
							26.3	27.5	REC
							27.5	28.3	UNREC
							28.3	29.0	REC ✓
							29.0	30.0	SPC-Fld
							30.0	30.4	UNREC
							30.4	32.5	REC

FOR SMF USE
Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: UM-3

SAMPLE CONTAINER TOTAL: 6

DOCUMENTATION	ARRIVED AT SMF?

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME
TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:50
PERSON RELEASING CUSTODY	DATE AND TIME
Cathe Bruz	11/4/94 11:50

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE
FCT 0001344	32.5	40.0	004	CORE			32.5	33.4	UNREC
							33.4	34.1	REC
							34.1	35.0	SPC-Fld
							35.0	36.4	UNREC
							36.4	38.8	REC
							38.8	40.0	SPC-Fld
FCT 0001345	40.0	50.0	005	CORE			40.0	43.8	REC
							43.8	45.0	SPC-Fld
							45.0	45.7	UNREC
							45.7	49.3	REC
							49.3	50.0	SPC-Fld
FCT 0001346	50.0	55.0	006	CORE			50.0	50.7	UNREC
							50.7	53.2	REC
							53.2	54.0	SPC-Fld
							54.0	55.0	NAT
							55.0	56.5	REC (?)

FOR SMF USE
Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | FIELD SCREENING LOG

TA/OU 39/1132 Borehole ID: UM-3 Checked By: KAS Date: Page 1 of 2

Run No.	Run Interval	Hazard	Screening Method	Reading	Acceptance Criteria BELOW	Acceptance Criteria ABOVE	Technician's Certification
1	0.5-2.5		NO RECOVERY				
2	2.5-5	VOC	PID	120-closed	X		
	"	VOC	PID	ND-open	X		
	"	RAD	449 Ludlum *	101	X		
3	5-7.5	VOC	PID	33-closed	X		
	"	VOC	PID	ND-open	X		
	"	RAD	449 Ludlum	110	X		
4	7.5-10	VOC	PID	120-closed	X		
	"	VOC	PID	ND-open	X		
	"	RAD	449 Ludlum	99	X		
5	10-12.5		NO RECOVERY				
6	12.5-15	VOC	PID	350-closed	X		
	"	VOC	PID	ND-open	X		
	"	RAD	449 Ludlum	107	X		
7	15-17.5	VOC	PID	145-closed	X		
	"	VOC	PID	ND-open	X		
	"	RAD	449 Ludlum	87	X		
8	17.5-20	VOC	PID	130-closed	X		
	"	VOC	PID	ND-open	X		
	"	RAD	449 Ludlum	106	X		
9	20-22.5	VOC	PID	14-closed	X		
	"	VOC	PID	ND-open	X		
	"	RAD	449 Ludlum	Not taken			
10	22.5-25	VOC	PID	9-closed	X		
	"	VOC	PID	ND-open	X		
	"	RAD	449 Ludlum	100	X		
11	25-27.5	VOC	PID	1-closed	X		
	"	VOC	PID	ND-open	X		
	"	RAD	449 Ludlum	102	X		
12	27.5-30	VOC	PID	4-closed	X		
	"	VOC	PID	ND-open	X		
	"	RAD	449 Ludlum	91	X		
13	30-32.5	VOC	PID	1-closed	X		
	"	VOC	PID	ND-open	X		
	"	RAD	449 Ludlum	118	X		

PID- Photovac Microtip
FID-Foxboro 128
* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | FIELD SCREENING LOG

TA/OU 39/1132 Borehole ID: UM-3 Checked By: KAS Date: Page 2 of 2

Run		Hazard	Screening	Reading	Acceptance Criteria		Technician's
No.	Interval		Method		BELOW	ABOVE	Certification
14	32.5-35	VOC	PID	10-closed	X		
	"	VOC	PID	ND-open	X		
	"	RAD	449 Ludlum *	120	X		
15	35-37.5	VOC	PID	7-closed	X		
	"	VOC	PID	ND-open	X		
	"	RAD	449 Ludlum	123	X		
16	37.5-40	VOC	PID	ND	X		
	"	RAD	449 Ludlum	119	X		
17	40-42.5	VOC	PID	1-closed	X		
	"	VOC	PID	ND-open	X		
	"	RAD	449 Ludlum	117	X		
18	42.5-45	VOC	PID	ND	X		
	"	RAD	449 Ludlum	97	X		
19	45-47.5	VOC	PID	ND	X		
	"	RAD	449 Ludlum	103	X		
20	47.5-50	VOC	PID	ND	X		
	"	RAD	449 Ludlum	96	X		
21	50-52.5	VOC	FID	ND	X		
	"	RAD	449 Ludlum	95	X		
22	52.5-54	VOC	FID	2-closed	X		
	"	VOC	FID	ND-open	X		
	"	RAD	449 Ludlum	78	X		
23	55-57.5	VOC	FID	ND	X		
	"	RAD	449 Ludlum	87	X		

PID- Photovac Microtip
FID-Foxboro 128
* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 39/132 Borehole ID UH-3 Checked By _____ Date _____ Page 1 of 1

Photographed By Ken Shisler Date 7-26,29/94

Labels 1336-1340 Destroyed

Roll		Exposure			Run		Box		Other
No.	ASA	No.	f-stop	Speed	No.	Interval	Bar Code #	Interval	
9					1	0.5-2.5	1341		
					2	2.5-5	↓		
					3	5-7.5			
					4	7.5-10			
					5	10-12.5			
					6	12.5-15	↓		
					7	15-17.5	1341		
					8	17.5-20	1342		
					9	20-22.5	↓		
					10	22.5-25	1342		
					11	25-27.5	1343		
					12	27.5-30	↓		
					13	30-32.5	1343		
					14	32.5-35	1344		
					15	35-37.5	↓		
					16	37.5-40	1344		
					17	40-42.5	1345		
					18	42.5-45	↓		
					19	45-47.5	↓		
					20	47.5-50	1345		
					21	50-52.5	1346		
					22	52.5-54	1346		
					23	55-57.5	1346?	maybe 1347	

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization EST-9

Telephone ( ) _____

Form Completed By Ken Shisler Date 7-26-94 Page 1 of 2

Borehole ID UM-3 TA/OU 391 1132

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
2731		0 - 0.5 / 7-26-94	✓	✓	✓
2732		3.9 - 5 / 7-26-94	✓	✓	✓
2733		9 - 10 / 7-26-94	✓	✓	✓
2734		14 - 15 / 7-26-94	✓	✓	✓
2735		19.2 - 20 / 7-26-94	✓	✓	✓
2736		24 - 25 / 7-26-94	✓	✓	✓
2737		29 - 30 / 7-26-94	✓	✓	✓
2738		34.1 - 35 / 7-26-94	✓	✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody: _____ Person Accepting Custody: _____

Date/ Time _____ Date/ Time _____

SMF USE ONLY Checked By _____ Date _____

R.1

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization CST-9 _____

Telephone ( ) _____

Form Completed By Ken Shisler Date 7-26-94 Page 2 of 2

Borehole ID U14-3 TA/OU 39 / 1132

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
2739		38.8-40 / 7-26-94	✓	✓	✓
2740		43.8-45 / 7-26-94	✓	✓	✓
2741		49.3-50 / 7-26-94	✓	✓	✓
2742		53.2-54 / 7-28-94	✓	✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody: _____ Person Accepting Custody: _____

Date/ Time _____ Date/ Time _____

SMF USE ONLY Checked By _____ Date _____

R.1

TARGET PAGE

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ER ID # 76868

RECORD TYPE: PHOTOS

DATE:

SYMBOL: OU1132
PRS 39-001(B)

SUBJECT: UM-3 (23 PHOTOS)

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: DM-5 (abandoned) TA/OU: 39/1132 Drill Depth From: 0 ft. To: 55 ft. Page: 1 of: 3
Driller: Stewart Brothers Box (s): Date/Time Start: 9/19/94, 0930 End: 9/19/94, 1730
Drilling Equip./Method: CME 750 Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet/Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Graphic Log	Lithologic Unit	Notes
2.5	60		HNu-ND Rad-110	0-2.5 1	Light to medium brown, silty clayey sand with pumice.		SW	
5	80		HNu-ND Rad-97	2.5-5 2	Light to medium brown, sugary coarse sand with pumice cobbles, pebbles, gravel, dry.			
7.5	92		HNu-ND Rad-106	5-7.5 3	5.2-6.2-Medium brown silty fine sand.		SM	
					6.2-7.5-Light brown, sugary coarse sand with pumice.		SW	
10	64	AAB8864	HNu-ND Rad-112	7.5-10 4	Medium brown, silty, medium to coarse sand with pumice pebbles, damp.		SM	Sample 8.4-10 feet.
12.5	56		HNu-ND Rad-83	10-12.5 5	Medium brown, sugary coarse sand.		SW	
15	88		HNu-ND Rad-102	12.5-15 6	12.8-14.8-Same as above. 14.8-15-Damp, medium brown, silty medium sand.			
17.5	84		HNu-ND Rad-108	15-17.5 7	15.4-15.7-Same as 14.8-15 ft.		SM	
20	100	AAB8865	HNu-ND Rad-109	17.5-20 8	15.7-17.5-Medium brown, very coarse sand and gravel with pumice, damp.		SW	
22.5	100		HNu-ND Rad-114	20-22.5 9	17.5-18.2-Purplish brown tuff.		Qbt	Sample 17.5-20 feet.
					18.2-18.7-Medium brown, coarse sand.		SW	
25	100		HNu-ND Rad-120	22.5-25 10	18.7-20-Medium brown, clayey silt with pumice, damp.		ML	
					Medium brown, damp, clayey silt with clayey sand at 20.9 ft.		SC	
27.5	100		HNu-ND Rad-99	25-27.5 11	Same as above.		ML	
					Same as above, wet at 27.2 feet.			
30	100	AAB8866	HNu-ND Rad-94	27.5-30 12	Dark brown, wet, silty sand.		SM	Sample 27.5-30 feet.

Prepared By: Kenneth A. Shirley Jr. Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: DM-5 (abandoned) TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0 ft. To: 55 ft. Page: 2 of: 3
Date/Time Start: 9/19/94, 0930 End: 9/19/94, 1730
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Graphic Log	Lithologic Unit	Notes
30	100		HNu-ND Rad-97	30-32.5 13	30-30.2-Weathered purplish brown tuff. 30.2-32.5-Damp to wet, silty coarse to medium sand, brown.		Qbt	
32.5	100		HNu-ND Rad-95	32.5-35 14	32.5-34-Medium brown, damp, silty sand.		SM	
35	100		HNu-ND Rad-80	35-37.5 15	34-34.1-Weathered purplish tuff. 34.1-34.2-Brown coarse sand. 34.2-35-Medium brown, damp, silty sand.		Qbt SW	
37.5	100	AAB8867	HNu-ND Rad-80	37.5-40 16	35-36.2-Same as 34.2-35 feet. 36.2-36.3-Medium brown coarse sand. 36.3-37-Same as 35-36.2 feet. 37-37.2-Weathered tuff. 37.2-37.5-Coarse sand, pumice.		SM SW SM Qbt SW	
40					37.5-38.5-Medium brown, coarse silty sand, damp. 38.5-39-Medium brown, silty medium sand. 39-39.7-Weathered purplish tuff with pink pumice. 39.7-40-Medium brown, silty medium sand, damp.		SM Qbt SM	Sample 37.5-40 feet.

Prepared By: Kenneth A. Shiley Jr. Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: DM-5 (abandoned) TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0 ft. To: 55 ft. Page: 3 of: 3
Date/Time Start: 9/19/94, 0930 End: 9/19/94, 1730
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Graphic Log	Lithologic Unit	Notes
40								
	100		HNu-ND Rad-107	40-42.5 17	40-41.2-Medium brown, damp silty sand. 41.2-42-Medium brown, coarse sand with pumice. 42-42.4-Same as 40-41.2 feet. 42.4-42.5-Weathered tuff.		SM	
42.5							SW	
	100		HNu-ND Rad-98	42.5-45 18			SM	
45							Qbt	
	100		HNu-ND Rad-83	45-47.5 19	Weathered purplish brown tuff with coarse sand; silty clayey sand layer from 43.5-43.6 feet.		SM	
47.5							Qbt	
	73	AAB8868	HNu-ND Rad-101	47.5-49 20	45-45.9-Medium brown, coarse clayey sand with pumice, very damp. 45.9-47-Light brown pumice. 47-47.2-Red Fe stained pumice, wet. 47.2-47.3-Manganese (?). 47.3-47.5-Orange-brown coarse pumice.		SC	
49								
50								
	100		HNu-ND Rad-80	50-52.5 21	47.9-48.3-Wet, Fe stained pumice. 48.3-49-Wet, light brown, coarse pumice with pebbles.		Qbt	Sample 47.9-49 feet. Hard drilling at 49 ft. Drilled with center bit from 49 to 50 feet.
52.5								
	100		HNu-ND Rad-111	52.5-55 22	50-51.6-Wet, light brown pumice sand. 51.6-51.7-Fe stained pumice. 51.7-51.8-Manganese (?). 51.8-52.5-Dry, light brown, very fine pumice sand.			
55					52.5-53-Wet, medium brown, coarse pumice sand. 53-53.7-Dry, fine pumice sand. 53.7-55-Dry clayey sand.			Dry hole, quit drilling at 55 feet and abandoned hole.
							SC	
					TOTAL DEPTH: 55 FEET			

Prepared By: Kenneth O. Stubbs Jr. Date: 10/28/94 Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: DM-5

SAMPLE CONTAINER TOTAL: 6

DOCUMENTATION	ARRIVED AT SMF?

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME
TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:15
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth A. Kirby Jr.	11-4-94 11:15

CONTAINER ID	BOX INTERVAL TOP	BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	BOTTOM	EXISTENCE
FCT 0003697	0.0	10.0	001	CORE			0.0	1.0	UNREC
							1.0	2.5	REC
							2.5	3.0	UNREC
							3.0	5.0	REC
							5.0	5.2	UNREC
							5.2	7.5	REC
							7.5	8.4	UNREC
							8.4	10.0	SPC-Fld
FCT 0003698	10.0	20.0	002	CORE			10.0	11.1	UNREC
							11.1	12.5	REC
							12.5	12.8	UNREC
							12.8	15.0	REC
							15.0	15.4	UNREC
							15.4	17.5	REC
							17.5	20.0	SPC-Fld
FCT 0003699	20.0	30.0	003	CORE			20.0	27.5	REC
							27.5	30.0	SPC-Fld
FCT 0003700	30.0	40.0	004	CORE			30.0	37.5	REC
							37.5	40.0	SPC-Fld

FOR SMF USE
Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: DM-5

SAMPLE CONTAINER TOTAL: 6

DOCUMENTATION	ARRIVED AT SMF?

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME
TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:15
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth A. Shirley Jr.	11-4-94 11:15

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE
FCT 0003701	40.0	50.0	005	CORE			40.0	47.5	REC
							47.5	47.9	UNREC
							47.9	49.0	SPC-Fld
							49.0	50.0	NAT
FCT 0003702	50.0	55.0	006	CORE			50.0	55.0	REC

FOR SMF USE
Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | FIELD SCREENING LOG

TA/OU 39/1132 Borehole ID: DM-5 Checked By: KAS Date: Page 1 of 2

Run No.	Run Interval	Hazard	Screening Method	Reading	Acceptance Criteria BELOW	Acceptance Criteria ABOVE	Technician's Certification
1	0.5-2.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	110	X		
2	2.5-5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	97	X		
3	5-7.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	106	X		
4	7.5-10	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	112	X		
5	10-12.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	83	X		
6	12.5-15	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	102	X		
7	15-17.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	108	X		
8	17.5-20	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	109	X		
9	20-22.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	114	X		
10	22.5-25	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	120	X		
11	25-27.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	99	X		
12	27.5-30	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	94	X		
13	30-32.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	97	X		
14	32.5-35	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	95	X		
15	35-37.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	80	X		
16	37.5-40	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	80	X		
17	40-42.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	107	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | FIELD SCREENING LOG

TA/OU 39/1132 Borehole ID: DM-5 Checked By: KAS Date: Page 2 of 2

Run No.	Run Interval	Hazard	Screening Method	Reading	Acceptance Criteria BELOW	Acceptance Criteria ABOVE	Technician's Certification
18	42.5-45	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	98	X		
19	45-47.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	83	X		
20	47.5-49	50	HNu	ND	X		
	"	RAD	449 Ludlum	101	X		
21	50-52.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	80	X		
22	52.5-55	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	111	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 39/1132 Borehole ID DM-5 Checked By ____ Date ____ Page 1 of 1

Photographed By C. BIRNEY Date 9/19/94

Roll		Exposure			Run		Box		Other
No.	ASA	No.	f-stop	Speed	No.	Interval	Bar Code #	Interval	
18	100	3			1	00-2.5	3697	0-00-10	
		4			2	2.5-5	"	"	
		5			3	5-7.5	"	"	
		6			4	7.5-10	3697	00-10	
		7			5	10-12.5	3698	10-20	
		8			6	12.5-15	"	"	
		9			7	15-17.5	"	"	
		10			8	17.5-20	3698	10-20	
		11			9	20-22.5	3699	20-30	
		12			10	22.5-25	"	"	
		13			11	25-27.5	"	"	
		14			12	27.5-30	3699	20-30	
		15			13	30-32.5	3700	30-40	
		16			14	32.5-35	"	"	
		17			15	35-37.5	"	"	
		18			16	37.5-40	3700	30-40	
		19			17	40-42.5	3701	40-49	
		20			18	42.5-45	"	"	
		21			19	45-47.5	"	"	
		22			20	47.5-49	3701	40-49	
		23			21	50-52.5	3702	50-55	
		24			22	52.5-55	3702	50-55	

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization CST-9

Telephone ( ) _____

Form Completed By C. BIRNEY Date 9/20/94 Page 1 of 1

Borehole ID DM-5 TA/OU 39 / 1132

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
4379	✓	8.4-10 (½ core) 9/19/94	✓	✓	✓
4380	✓	17.5-20 (½ core) 9/19/94	✓	✓	✓
4381	✓	27.5-30 (½ core) 9/19/94	✓	✓	✓
4382	✓	37.5-40 (½ core) 9/19/94	✓	✓	✓
4383	✓	47.9-49 (½ core) 9/19/94	✓	✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody: _____ Person Accepting Custody: _____

Date/ Time _____ Date/ Time _____

SMF USE ONLY Checked By _____ Date _____

R.1

TARGET PAGE

This target page represents media that was not scanned. The original media can be obtained through the Records Processing Facility.

ER ID # 76868

RECORD TYPE: PHOTOS

DATE:

SYMBOL: OU 1132
PRS 39-001(B)

SUBJECT: DM-5 (22 PHOTOS)

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: DM-6 TA/OU: 39/1132 Drill Depth From: 0 ft. To: 60 ft. Page: 1 of: 3
Driller: Stewart Brothers Box (s): Date/Time Start: 9/21/94, 1000 End: 9/21/94, 1730
Drilling Equip./Method: CME 750 Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Graphic Log	Lithologic Unit	Notes
	64	HNu-ND Rad-88	0-2.5 1	Silty loam with pebbles.		ML	No laboratory samples collected.
2.5	32	HNu-ND Rad-95	2.5-5 2	Medium to coarse sand.		SW	
5	60	HNu-ND Rad-81	5-7.5 3	Coarse sand with pebbles.			
7.5	72	HNu-ND Rad-93	7.5-10 4	Medium to coarse sand, some silt in porosity.		SW-SM	
10	48	HNu-ND Rad-86	10-12.5 5	Same as above, damp.			
12.5	52	HNu-ND Rad-82	12.5-15 6	Same as above, silt matrix at 14.9 feet.			
15	100	HNu-ND Rad-105	15-17.5 7	15-16.1-Medium to coarse sand with some silt. 16.1-17.5-Buried soil of silty clay with tuff pebbles, wood material and charcoal.		CL	
17.5	100	HNu-ND Rad-116	17.5-20 8	Sandy silt grading to sandy clayey silt with depth; root material - buried soil. Wet zone at 18.3 feet.		ML	
20	100	HNu-ND Rad-88	20-22.5 9				
22.5	88	HNu-ND Rad-120	22.5-25 10	Sandy silt with clay and occasional pebbles.			
25				22.8-24-Coarse silty sand. 24-24.7-Clayey silty coarse sand. 24.7-25-Fine sandy silt.		SM / SC / SM	

Prepared By: Kenneth A. Shiba Jr. Date: 10/24/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: DM-6 TA/OU: 39/1132 Drill Depth From: 0 ft. To: 60 ft. Page: 2 of: 3
Driller: Stewart Brothers Box (s): Date/Time Start: 9/21/94, 1000 End: 9/21/94, 1730
Drilling Equip./Method: CME 750 Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Graphic Log	Lithologic Unit	Notes
25	92	HNu-ND Rad-108	25-27.5 11	25.2-26.2-Silty fine sand. 26.2-26.6-Coarse sand with pebbles.		SM SW	
27.5	76	HNu-ND Rad-84	27.5-30 12	26.6-27.4-Dense silt with tuff cobbles. 27.4-27.5-Fine sand.		ML SW	
30							
31	100	HNu-ND Rad-111	31-32.5 13	28.1-28.5-Sandy silt with clay. 28.5-29-Silty sand with large pebbles. 29-29.6-Silty coarse sand with large pebbles. 29.6-29.9-Pink tuff. 29.9-30-Silty coarse sand with cobbles and pebbles.		ML SM Qbt SM	
32.5	100	HNu-ND Rad-104	32.5-35 14	31-31.1-Light blue igneous cobble zone. 31.1-32.5-Dense, clayey coarse sand with cobbles.		 SC	Hit cobbles at 30 feet. Ran center bit from 30 to 31 feet.
35				32.5-33.1-Sandy clay with cobbles. 33.1-33.7-Fine pumice sand. 33.7-35-Medium pumice sand with pebbles.		CL SW	

Prepared By: Kenneth A. Phillips Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: DM-6 TA/OU: 39/1132 Drill Depth From: 0 ft. To: 60 ft. Page: 3 of: 3
Driller: Stewart Brothers Box (s): Date/Time Start: 9/21/94, 1000 End: 9/21/94, 1730
Drilling Equip./Method: CME 750 Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Graphic Log	Lithologic Unit	Notes
35	96	HNu-ND Rad-118	35-37.5 15	35.1-36.8-Fine to medium pumice sand with pebbles. 36.8-37.5-Dense, medium pumice sand with cobbles,wet.			
37.5	100	HNu-ND Rad-93	37.5-40 16	Medium pumice sand, sugary texture at 39.7 feet.			
40	64	HNu-ND Rad-101	40-42.5 17	Medium to coarse pumice sand.		SW	
42.5	100	HNu-ND Rad-103	42.5-45 18	Same as above.			
45	88	HNu-ND Rad-93	45-47.5 19	45.3-45.6-Black stained coarse pumice sand. 45.6-45.8-Fe stained medium sand. 45.8-46.5-Red-brown medium sand. 46.8-47.5-Light brown pumice sand.			Approximately 1 cm thick cemented Fe stained layer at each end of red brown sand.
47.5	100	HNu-ND Rad-115	47.5-50 20				
50	100	HNu-ND Rad-97	50-52.5 21	Medium to coarse pumice sand with cobbles.			
52.5	100	HNu-ND Rad-109	52.5-55 22	50-51.3-Medium to fine pumice sand. 51.3-52.5-Coarse pumice sand.		SW	
55	100	HNu-ND Rad-90	55-57.5 23	Fine to medium pumice sand.			
57.5	100	HNu-ND Rad-92	57.5-60 24	55-56.8-Medium pumice sand. 56.8-57.5-Becoming coarser.			
60				Medium to coarse pumice sand with pebbles.			
				TOTAL DEPTH: 60 FEET			One composite sample collected from cuttings drums for waste characterization.

Prepared By: Kenneth A. Phillips Jr. Date: 10/28/94 Checked By: Date:

DM-6

Los Alamos National Laboratory Environmental Restoration
Well Completion Information Form

Page 1

Site Work Plan OU 1132 RFI WP
Technical Area TA-39
Inclusive Sample Identifier:
Operable Unit OU 1132 to
Signature Kenneth A. Smiley Jr. Date 9-23-94

Installation
Owner Installer Stewart Bros. Drilling Co. Date
Filter Pack Length (ft) 20
Well Type Classification M
Formation of
Well Completion Method S
Completion (US/RC))
Zone of Completion 45' - 55'
Casing Elevation (ft MSL)
Open/Screen Depth (FTFD)* 45'
Casing Depth (ft) 57.5'
Open/Screen Length (ft) 10'
Casing Diameter (in.) 4"
Open/Screen Area (in²/ft)
Seal End Depth (FTFD) 32.5
Flow Relationship D
Screen Material 4" Stainless Steel
Cap Material CT
Riser Material 4" Stainless Steel Blank
Cap Type LC

WELL TYPE CLASSIFICATIONS

(M) Monitor Well
P - Production Well
T - Test Well
O - Other (specify)

FLOW RELATIONSHIP

U - Upgradient
(D) Downgradient
C - Cross Gradient
O - Onsite
N - Not known
B - Background

CAP TYPE

(LC) Locking
SL - Slip-on
TR - Threaded
NO - None
SC - Screw-on
OT - Other (specify)

WELL COMPLETION METHODS

C - Porous Concrete
F - Gravel Pack
H - Horizontal Galley
O - Open End
P - Perforated/Slotted
(S) Screen
T - Sand Front
W - Walled
X - Open
O - Other (specify)

CAP MATERIALS

CT - Concrete
CR - Copper
FI - Fiberglass
GI - Galvanized Iron
WI - Wrought Iron
(SS) - Stainless Steel
OM - Other Material
TE - Teflon
PV - PVC
RK - Rock or Stone
ST - Steel
TI - Tile
CS - Costed Steel
WD - Wood
NO - None
OT - Other (specify)

ZONES OF CONCERN

A - Artesian
C - Confined
H - Acquitard
G - Aquiclude
M - Multisystem
S - Semi-confined
(U) Unconsolidated

* FTFD = feet from datum.

SOP 5.01, R0

Los Alamos National Laboratory Environmental Restoration
Monitor Well Construction Field Data Log

Sheet 7 of 3

Site Work Plan OU1132 RFI WP
Technical Area TA-39
Inclusive Sample Identifiers _____ to _____
Operable Unit OU1132
Signature Kenneth A. Shifler Jr. Date 9-23-94

BOREHOLE SUMMARY

BIT TYPE	HOLE DIAMETER (in.)	END[1] DEPTH (ft)	FLUID TYPE
Auger	8 3/4"	57.5'	

CASING SUMMARY

CASING TYPE	DESCRIPTION	DIAM. (in.)	END[2] DEPTH (ft)
P	Stainless Steel	4	45
S	Stainless Steel	4	55
P	Stainless Steel	4	57.5

P - Protective S - Screen O - Open N - None

[1] Depth from Ground Surface [2] Depth from Toe of Casing

WELL CONSTRUCTION

TYPE[1] CODE	DESCRIPTION	END[1] DEPTH (ft)
S	Cement/3% Bentonite grout	35
S	Bentonite	37.5
F	10-20 Sand	57.5

B - Backfill S - Seal F - Filter Pack [1] Depth from Ground Surface

CONSTRUCTION TIME LOG

ACTIVITY	START DATE	START TIME	END TIME
DRILLING	9-21-95 9-22-95	1100	0945
CASING	~~0919~~ 9-22-95	0945	1045
FILTER PACK	9-22-95	1045	1200
SEAL	9-12-95	1300	1400
BACKFILL			
DEVELOPMENT			
OTHER			

WELL DEVELOPMENT

no water

COMMENTS:

Los Alamos National Laboratory Environmental Restoration
Well Completion Information Form (continued)

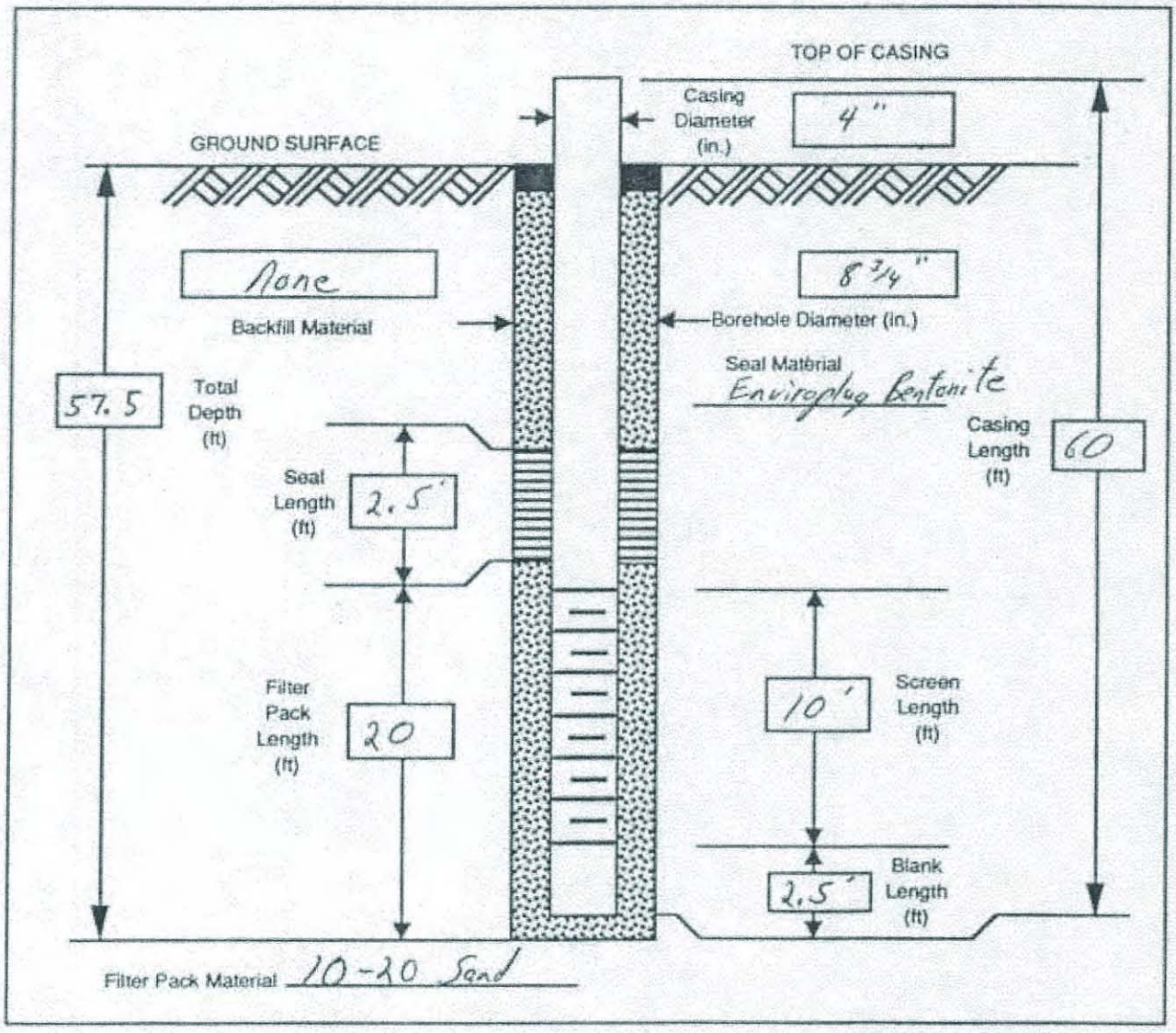
Site Work Plan OU 1132 RFI WP

Technical Area TA-39

Inclusive Sample Identifiers _____ to _____

Operable Unit OU 1132

Signature Kenneth A. Shuler, Jr. Date 9-23-94



Comments Colorado Silica Sand 10-20 Sand pack.
Well completed in interpreted buried channel sand.

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: DM-6

SAMPLE CONTAINER TOTAL: 8

DOCUMENTATION	ARRIVED AT SMF?

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME
TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11-15-94
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth A. Shirley Jr.	11-4-94 11:15

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE
FCT 0003855	0.0	10.0	001	CORE			0.0	0.9	UNREC
							0.9	2.5	REC
							2.5	4.2	UNREC
							4.2	5.0	REC
							5.0	6.0	UNREC
							6.0	7.5	REC
							7.5	8.2	UNREC
							8.2	10.0	REC
FCT 0003857	10.0	17.5	002	CORE			10.0	11.3	UNREC
							11.3	12.5	REC
							12.5	13.7	UNREC
							13.7	17.5	REC
FCT 0003858	17.5	25.0	003	CORE			17.5	22.5	REC
							22.5	22.8	UNREC
							22.8	25.0	REC
FCT 0003859	25.0	35.0	004	CORE			25.0	25.2	UNREC
							25.2	27.5	REC
							27.5	28.1	UNREC
							28.1	30.0	REC
							30.0	31.0	NAT
							31.0	35.0	REC

FOR SMF USE
Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: DM-6

SAMPLE CONTAINER TOTAL: 8

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME

DOCUMENTATION	ARRIVED AT SMF?

TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Brianna Sparks	11-4-94 11:15
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth a. Shirley Jr.	11-4-94 11:15

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE	
FCT 0003860	35.0	42.5	005	CORE			35.0	35.1	UNREC	
							35.1	40.0	REC	✓
							40.0	40.9	UNREC	
							40.9	42.5	REC	
FCT 0003861	42.5	50.0	006	CORE			42.5	45.0	REC	✓
							45.0	45.3	UNREC	
							45.3	50.0	REC	
FCT 0003862	50.0	55.0	007	CORE			50.0	55.0	REC	✓
FCT 0003863	55.0	60.0	008	CORE			55.0	60.0	REC	✓

FOR SMF USE
Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | FIELD SCREENING LOG

TA/OU 39/1132 Borehole ID: DM-6 Checked By: KAS Date: Page 1 of 2

Run No.	Run Interval	Hazard	Screening Method	Reading	Acceptance Criteria BELOW	Acceptance Criteria ABOVE	Technician's Certification
1	0.5-2.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	88	X		
2	2.5-5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	95	X		
3	5-7.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	81	X		
4	7.5-10	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	93	X		
5	10-12.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	86	X		
6	12.5-15	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	82	X		
7	15-17.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	105	X		
8	17.5-20	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	116	X		
9	20-22.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	88	X		
10	22.5-25	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	120	X		
11	25-27.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	108	X		
12	27.5-30	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	84	X		
13	31-32.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	111	X		
14	32.5-35	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	104	X		
15	35-37.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	118	X		
16	37.5-40	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	93	X		
17	40-42.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	101	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | FIELD SCREENING LOG

TA/OU 39/1132 Borehole ID: DM-6 Checked By: KAS Date: Page 2 of 2

Run No.	Run Interval	Hazard	Screening Method	Reading	Acceptance Criteria BELOW	Acceptance Criteria ABOVE	Technician's Certification
18	42.5-45	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	103	X		
19	45-47.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	93	X		
20	47.5-50	50	HNu	ND	X		
	"	RAD	449 Ludlum	115	X		
21	50-52.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	97	X		
22	52.5-55	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	109	X		
23	55-57.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	90	X		
24	57.5-60	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	92	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 89/1132 Borehole ID DM-6 Checked By _____ Date _____ Page 1 of 1

Photographed By KEN SMITH CLARK Date 9/21/94

Roll		Exposure			Run		Box		Other
No.	ASA	No.	f-stop	Speed	No.	Interval	Bar Code #	Interval	
18	100	25			1	0-2.5	3855	0-10	
		26			2	2.5-5	"	"	
		27			3	5-7.5	"	"	
		28			4	7.5-10	3855	0-10	
		29			5	10-12.5	3857	10-17.5	
		30			6	12.5-15	"	"	
		31			7	15-17.5	3857	10-17.5	
		32			8	17.5-20	3858	17.5-25	
		33			9	20-22.5	"	"	
		34			10	22.5-25	3858	17.5-25	
		35			11	25-27.5	3859	25-35	
		36			12	27.5-30	"	"	
19	200	1			13	31-32.5	"	"	
		2			14	32.5-35	3859	25-35	
		3&4			15	35-37.5	3860	35-42.5	
		5			16	37.5-40	"	"	
		6			17	40-42.5	3860	35-42.5	
		7			18	42.5-45	3861	42.5-50	
		8			19	45-47.5	"	"	
		9			20	47.5-50	3861	42.5-50	
		10			21	50-52.5	3862	50-55	
		11			22	52.5-55	3862	50-55	
		12			23	55-57.5	3863	55-60	
		13			24	57.5-60	3863	55-60	

TARGET PAGE

This target page represents media that was not scanned. The original media can be obtained through the Records Processing Facility.

ER ID # 76868

RECORD TYPE:

DATE: 04/1132

SYMBOL: PRS 39-001

SUBJECT: OM-6 (24 PHOTOS)

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-12 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft. Page: 1 of: 3
Date/Time Start: 8/8/94, 1120 End: 8/10/94, 1100
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
2.5	70	Surface AAB0422	HNu-ND Rad-89	0.5-2.5 1	Medium brown sandy silty with pebbles and roots.	Surface sample-0-0.5 feet.
5	60		HNu-ND Rad-108	2.5-5 2	3.5-4.6-Light brown coarse sand with pebbles. 4.6-5-Dense, dark brown, damp, sandy silt.	
7.5	100		HNu-ND Rad-105	5-7.5 3	Damp, coarse quartz sand with silt, loose.	
10	100	AAB0423	HNu-ND Rad-86	7.5-10 4	Medium to coarse quartz sand with pebbles and cobbles, damp.	Sample 9-10 feet.
12.5	80		HNu-ND Rad-98	10-12.5 5	Same as above.	
15	88		HNu-ND Rad-98	12.5-15 6	12.8-14.5-Medium coarse sand, damp. 14.5-15-Sandy silty, damp.	
17.5	92		HNu-ND Rad-113	15-17.5 7	Damp, medium to coarse sand.	
20	100	AAB0424	HNu-ND Rad-87	17.5-20 8	Same as above.	Sample 19-20 feet.
22.5	100		HNu-ND Rad-98	20-22.5 9	20-21.2-Same as above. 21.2-22.5-Dark brown clayey silt.	
25	100		HNu-ND Rad-98	22.5-25 10	Dark brown clayey silt with layers of silty clay.	
27.5	100		HNu-ND Rad-124	25-27.5 11	Same as above.	
30	100	AAB0425	HNu-ND Rad-91	27.5-30 12	Wet, dark brown clayey silty with sand and some pebbles.	Sample 28-30 feet.

Prepared By: Kenneth a. Shields Jr. Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-12 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft.
Date/Time Start: 8/8/94, 1120 End: 8/10/94, 1100
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
30						
	100		HNu-ND Rad-87	30-32.5 13	Dark brown, clayey sandy silt.	
32.5						
	100		HNu-ND Rad-88	32.5-35 14	Dark brown, sandy silty clay.	
35						
	100		HNu-ND Rad-101	35-37.5 15	Same as above with cobbles.	
37.5						
	100	AAB0426	HNu-ND Rad-106	37.5-40 16	Dark brown silty sand with cobbles.	Sample 38.8-40 feet.
40						
	86		HNu-ND Rad-97	40-43.5 17	40.5-41.3-Dense silt with cobbles. 41.3-42-Medium, silty sand with pebbles. 42-43.5-Dense, sandy silt with cobbles-conglomerate.	
43.5						
	100		HNu-ND Rad-92	43.5-45 18	Sandy clay silt with cobbles, obsidian, and weathered tuff layer.	
45						
	100		HNu-ND Rad-84	45-47.5 19	Sandy clay silt with relic mineralization, sanidine crystals and angular pebbles.	
47.5						
	100	AAB0427	HNu-ND Rad-97	47.5-50 20	Same as above, wet with cobbles.	Sample 48.8-50 feet.
50						
51.5	100		HNu-ND Rad-99	50-51.5 21	Same as above, coarser grain.	Drilled with center bit to 52.5 feet.
52.5						
	96		HNu-ND Rad-109	52.5-55 22	Red brown, silty sand with cobbles.	
55						
	100		HNu-ND Rad-92	55-55.6 23	Clay silty sand with angular pebbles.	Drilled with center bit from 55.6 to 57.5 feet.
57.5						
60	100	AAB0428	HNu-ND Rad-97	57.5-60 24	Medium brown, dense silt with pumice clast, iron staining with pebbles and fine sand layer.	Sample 59.1-60 feet.

Prepared By: Kenneth A. Shields Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-12 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft. Page: 3 of: 3
Date/Time Start: 8/8/94, 1120 End: 8/10/94, 1100
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
60	100		HNu-ND Rad-101	60-62.5 25	Medium brown, fine sand with occasional pumice clast, some Fe staining.	
62.5	100		HNu-ND Rad-117	62.5-65 26	Same as above.	
65	100		HNu-ND Rad-119	65-67.5 27	Fine sand with pebbles and cobbles.	
67.5	100	AAB0429	HNu-ND Rad-117	67.5-70 28	Medium brown, fine sand with occasional pumice clast and Fe staining.	Sample 69-70 feet.
70	0				Cobbles at 70 feet. No recovery.	Drilled with center bit from 70 feet to 75 feet.
72.5						
75	100		HNu-ND Rad-92	75-77.5 29	Medium to fine sand with angular pebbles and cobble fragments.	
77.5	64	AAB0430	HNu-ND Rad-104	77.5-80 30	Medium quartz sand with pebbles and cobbles.	Sample 79.3-80 feet.
80					TOTAL DEPTH: 80 FEET	

Prepared By: Kenneth A. Shirley Jr. Date: 10/28/94 Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-12

SAMPLE CONTAINER TOTAL: 15

DOCUMENTATION	ARRIVED AT SMF?

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME

TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:10
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth A. Flick Jr.	11-4-94 11:10AM

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE
FCT 0001501	0.5	5.0	001	CORE			0.5	1.1	UNREC
							1.1	2.5	REC
							2.5	3.5	UNREC
							3.5	5.0	REC
FCT 0001502	5.0	10.0	002	CORE			5.0	9.0	REC
							9.0	10.0	SPC-Fld
FCT 0001503	10.0	15.0	003	CORE			10.0	10.5	UNREC
							10.5	12.5	REC
							12.5	12.8	UNREC
							12.8	15.0	REC
FCT 0001504	15.0	20.0	004	CORE			15.0	15.2	UNREC
							15.2	19.0	REC
							19.0	20.0	SPC-Fld
FCT 0001505	20.0	27.5	005	CORE			20.0	27.5	REC
FCT 0001506	27.5	32.5	006	CORE			27.5	28.0	REC
							28.0	30.0	SPC-Fld
							30.0	32.5	REC

FOR SMF USE
Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-12

SAMPLE CONTAINER TOTAL: 15

DOCUMENTATION	ARRIVED AT SMF?

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME
TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:10
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth A. Kirby Jr.	11-4-94 11:10

CONTAINER ID	BOX INTERVAL TOP	BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	BOTTOM	EXISTENCE
FCT 0001507	32.5	37.5	007	CORE			32.5	37.5	REC
FCT 0001508	37.5	43.5	008	CORE			37.5	38.8	REC
							38.8	40.0	SPC-Fld
							40.0	40.5	UNREC
							40.5	43.5	REC
FCT 0001509	43.5	47.5	009	CORE			43.5	47.5	REC
FCT 0001510	47.5	52.5	010	CORE			47.5	48.8	REC
							48.8	50.0	SPC-Fld
							50.0	51.5	REC
							51.5	52.5	NAT
FCT 0001511	52.5	57.5	011	CORE			52.5	52.6	UNREC
							52.6	55.6	REC
							55.6	57.5	NAT
FCT 0001512	57.5	62.5	012	CORE			57.5	59.1	REC
							59.1	60.0	SPC-Fld
							60.0	62.5	REC

FOR SMF USE
Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-12

SAMPLE CONTAINER TOTAL: 15

DOCUMENTATION	ARRIVED AT SMF?

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME

TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:10
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth A. Shirley Jr.	11-4-94 11:10

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE
FCT 0001513	62.5	65.0	013	CORE			62.5	65.0	REC ✓
FCT 0001514	65.0	70.0	014	CORE			65.0	69.0	REC ✓
							69.0	70.0	SPC-Fld
FCT 0001515	70.0	80.0	015	CORE			70.0	75.0	NAT
							75.0	77.5	REC ✓
							77.5	78.4	UNREC
							78.4	79.3	REC
							79.3	80.0	SPC-Fld

FOR SMF USE
Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | **FIELD SCREENING LOG**

TA/OU 39/1132 Borehole ID: ASC-12 Checked By: KAS Date: Page 1 of 2

Run No.	Run Interval	Hazard	Screening Method	Reading	Acceptance Criteria BELOW	Acceptance Criteria ABOVE	Technician's Certification
1	0.5-2.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	89	X		
2	2.5-5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	108	X		
3	5-7.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	105	X		
4	7.5-10	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	86	X		
5	10-12.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	98	X		
6	12.5-15	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	98	X		
7	15-17.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	113	X		
8	17.5-20	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	87	X		
9	20-22.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	98	X		
10	22.5-25	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	98	X		
11	25-27.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	124	X		
12	27.5-30	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	91	X		
13	30-32.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	87	X		
14	32.5-35	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	88	X		
15	35-37.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	101	X		
16	37.5-40	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	106	X		
17	40-43.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	97	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | **FIELD SCREENING LOG**

TA/OU 39/1132 Borehole ID: ASC-12 Checked By: KAS Date: Page 2 of 2

Run No.	Run Interval	Hazard	Screening Method	Reading	Acceptance Criteria BELOW	Acceptance Criteria ABOVE	Technician's Certification
18	43.5-45	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	92	X		
19	45-47.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	84	X		
20	47.5-50	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	97	X		
21	50-51.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	99	X		
22	52.5-55	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	109	X		
23	55-55.6	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	92	X		
24	57.5-60	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	97	X		
25	60-62.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	101	X		
26	62.5-65	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	117	X		
27	65-67.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	119	X		
28	67.5-70	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	117	X		
	70-75		NO RECOVERY				
29	75-77.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	92	X		
30	77.5-80	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	104	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 39/1132 Borehole ID ASC-12 Checked By _____ Date 8-11-94 Page 1 of 1

Photographed By C. Birney Date _____

Roll		Exposure			Run		Box		Other
No.	ASA	No.	f-stop	Speed	No.	Interval	Bar Code #	Interval	
9		33			1	0.5 - 2.5	1501	0.5 - 5	
↑		34			2	2.5 - 5	1501	0.5 - 5	
↓		35			3	5 - 7.5	1502	5 - 10	
9		36			4	7.5 - 10	1502	5 - 10	
10		1			5	10 - 12.5	1503	10-15	
		2			6	12.5 - 15	1503	10 - 15	
		3			7	15 - 17.5	1504	15 - 20	
		4			8	17.5 - 20	1504	15 - 20	
		5			9	20 - 22.5	1505	20 - 27.5	
		6			10	22.5 - 25	↕	/	
		7			11	25 - 27.5	1505	20 - 27.5	
		8			12	27.5 - 30	1506	27.5 - 32.5	
		9/10			13	30 - 32.5	1506	27.5 - 32.5	
		11/12			14	32.5 - 35	1507	32.5 - 37.5	
		13			15	35 - 37.5	1507	32.5 - 37.5	
		14			16	37.5 - 40	1508	37.5 - 43.5	
		15			17	40 - 43.5	1508	37.5 - 43.5	
		16			18	43.5 - 45	1509	43.5 - 47.5	
		17			19	45 - 47.5	1509	43.5 - 47.5	
		18			20	47.5 - 50	1510	47.5 - 51.5	
		19			21	50 - 51.5	1510	47.5 - 51.5	
		20			22	51.5 - 55	1511	51.5 - 57.5	
		21			23	55 - 55.6	1511	51.5 - 57.5	
		22			24	57.5 - 60	1512	57.5 - 62.5	
		23			25	60 - 62.5	1512	57.5 - 62.5	
		24			26	62.5 - 65	1513	62.5 - 65	
		25			27	65 - 67.5	1514	65 - 70	
		26			28	67.5 - 70	1514	65 - 70	
10		27			29	75 - 77.5	1515	70 - 80	
		28			30	77.5 - 80	1515	70 - 80	

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization CST-9

Telephone ( ) _____

Form Completed By C. Birney Date 8-9-94 Page 1 of 2

Borehole ID ASC-12 TA/OU 39 / 1132

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
2749		0 - 0.5 / 8-8-94	✓	✓	✓
2750		9.0 - 10 / 8-8-94	✓	✓	✓
2751		19 - 20 / 8-8-94	✓	✓	✓
2752		28' - 30' / 8-9-94	✓	✓	✓
2753		38.8' - 40 / 8-9-94	✓	✓	✓
2754		48.8' - 50 / 8-9-94	✓	✓	✓
2755		59.1' - 60' / 8-9-94	✓	✓	✓
2756		69' - 70' / 8-9-94	✓	✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody: _____ Person Accepting Custody: _____

Date/ Time _____ Date/ Time _____

SME USE ONLY Checked By _____ Date _____

R.1

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization EST-9 _____

Telephone ( ) _____

Form Completed By C. Birney Date 8-10-94 Page 2 of 2

Borehole ID ASC-12 TA/OU 39 / 1132

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
2757		79.3' - 80' / 8-10-94	✓	✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody: _____ Person Accepting Custody: _____

Date/ Time _____ Date/ Time _____

SMF USE ONLY Checked By _____ Date _____

R 1

TARGET PAGE

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ER ID # 76868

RECORD TYPE: PHOTOS

DATE:

SYMBOL: OU-1132
PRS-39-001(B)

SUBJECT: ASC-12 (30 PHOTOS)

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-13 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft.
Date/Time Start: 8/31/94, 1000 End: 9/1/94, 1500
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sample

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
2.5	65	Surface AAB0433	HNu-ND Rad-95	0.5-2.5 1	0.0-0.5- Medium brown silty sand. 1.2-2.0-Dark brown, coarse silty sand. 2.0-2.5-Dark brown silt, damp.	Surface sample-0-0.5 feet.
5	68		HNu-ND Rad-119	2.5-5 2	Dark brown, slightly damp, clayey silt with pumice.	
7.5	80		HNu-ND Rad-99	5-7.5 3	Same as above.	
10	80	AAB0434	HNu-ND Rad-96	7.5-10 4	Dark brown, damp, clayey silt with tuff cobbles.	Sample 8-10 feet.
12.5	72		HNu-ND Rad-103	10-12.5 5	Dark to medium brown, dry, coarse sand.	
15	60		HNu-ND Rad-92	12.5-15 6	Dark to medium brown, slightly damp, coarse sand with pumice pebbles.	
17.5	80		HNu-ND Rad-89	15-17.5 7	15.5-17-Medium brown coarse sand with pumice pebbles. 17-17.5-Medium brown clayey silt.	
20	88	AAB0435 Dup: AAB0436	HNu-ND Rad-100	17.5-20 8	Medium to dark brown, medium to coarse sand, slightly damp, with pumice.	Sample 17.8-20 feet.
22.5	92		HNu-ND Rad-93	20-22.5 9	Same as above, but damper.	
25	60		HNu-ND Rad-96	22.5-25 10	23.5-24.5-Medium brown, coarse sand with pumice pebbles, damp. 24.5-25-Dark brown, damp clay with some sand.	
27.5	64		HNu-ND Rad-92	25-27.5 11	25.9-27-Medium brown, damp, clayey sand with pumice pebbles. 27-27.5- Coarse clayey sand with pumice.	
30	92	AAB0437	HNu-ND Rad-98	27.5-30 12	Medium brown, coarse sand with pumice pebbles, slightly damp.	Sample 27.7-30 feet.

Prepared By: Kenneth A. Shiley Jr. Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-13 TA/OU: 39/1132 Drill Depth From: 0.5 ft. To: 80 ft. Page: 2 of: 4
Driller: Stewart Brothers Box (s): Date/Time Start: 8/31/94, 1000 End: 9/1/94, 1500
Drilling Equip./Method: CME 750 Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
30	100		HNu-ND Rad-106	30-32.5 13	30-30.9-Medium brown, damp, coarse sand. 30.9-31.8-Medium brown clay with pumice. 31.8-32.5-Medium brown sandy clay.	
32.5	92		HNu-ND Rad-107	32.5-35 14	32.7-33-Dark to medium brown sandy clay. 33-34.5-Pumice layer. 34.5-35-Medium brown coarse sand.	
35	100		HNu-ND Rad-111	35-37.5 15	35-36.9-Medium brown, coarse sand with pumice pebbles. 36.9-37.5-Medium brown, silty clay with two pumice layers and charcoal.	
37.5	100	AAB0438	HNu-ND Rad-91	37.5-40 16	Medium brown, damp, clayey silt with pumice and charcoal grading into damp, medium brown, fine sand with clay.	Sample 37.5-40 feet.
40	100		HNu-ND Rad-127	40-42.5 17	40-41-Medium brown, damp, fine sand. 41-41.5-Light brown pumice with medium brown fine sand. 41.5-42.5-Medium brown, damp, silty sand.	
42.5	100		HNu-ND Rad-95	42.5-45 18	Dark to medium brown,damp, silty sand with pumice pebbles and charcoal.	
45	100		HNu-ND Rad-103	45-47.5 19	45-46-Same as above. 46-47.5-Pumice with coarse sand.	
47.5	100	AAB0439	HNu-ND Rad-123	47.5-50 20	47.5-48.3-Dark brown, clayey sandy silt. 48.3-49.3-Medium brown, medium to coarse sand with Fe staining. 49.3-50-Gray brown fine sand.	Sample 47.5-50 feet.
50	100		HNu-ND Rad-100	50-52.5 21	50-50.4-Dark brown fine sand. 50.4-51.1-Dark brown fine to coarse sand and pebbles. 51.1-52-Dark brown fine to coarse sand and pumice with pebbles. 52-52.5-Gray fine sand.	
52.5						

Prepared By: Kenneth A. Shields Jr. Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-13 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft.
Date/Time Start: 8/31/94, 1000 End: 9/1/94, 1500
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
52.5						
	100		HNu-ND Rad-113	52.5-55 22	52.5-53-Damp, grayish brown, fine sand. 53-54.5-Light to medium brown, coarse sand with pumice cobbles. 54.5-55-Medium brown, medium sand with cobbles.	
55						
	100		HNu-ND Rad-95	55-57.5 23	55-56.7-Medium brown, medium sand with Fe staining with pumice cobbles, damp. 56.7-57.5-Grayish brown fine sand with cobbles.	
57.5						
	92	AAB0440	HNu-ND Rad-94	57.5-60 24	57.7-58-Damp, reddish brown, coarse sand with pumice pebbles. 58-58.6-Damp fine gray sand. 58.6-58.8-Coarse gray brown sand. 58.8-59.4-Fine gray sand. 59.4-59.7-Purple brown tuff. 59.7-60-Damp, reddish brown coarse sand.	Sample 57.7-60 feet.
60						
	100		HNu-ND Rad-107	60-62.5 25	60-61.1-Reddish brown, damp, coarse sand. 61.1-61.6-Light brown, fine sand with pumice, with a black metallic layer at top and bottom. 61.6-62.5-Light brown, fine sand with pumice pebbles.	
62.5						
	100		HNu-ND Rad-93	62.5-65 26	62.5-64-Light brown pumice. 64-64.3-Light brown, fine pumice with tuff cobbles. 64.3-65-Light brown pumice.	
65						
	100		HNu-ND Rad-91	65-67.5 27	Light brown pumice with fine sand, damp.	
67.5						

Prepared By: Kenneth A. Shields Jr. Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-13 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft.
Date/Time Start: 8/31/94, 1000
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

End: 9/1/94, 1500

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
67.5	100	AAB0441	HNu-ND Rad-91	67.5-70 28	67.5-69.6-Same as above. 69.6-70-Light brown, coarse to medium sand with pumice, damp.	Sample 67.5-70 feet.
70	100		HNu-ND Rad-95	70-72.5 29	Sugary texture, light brown pumice, damp.	
72.5	100		HNu-ND Rad-97	72.5-75 30	72.5-74.7-Damp, light reddish brown, fine sand with pumice. 74.7-75-Damp, light brown, coarse sand with dacite and pumice pebbles.	
75	96		HNu-ND Rad-96	75-77.5 31	75.1-75.2-Medium brown, very damp, fine sand. 75.2-75.7-Light brown, coarse sand with dacite cobbles, damp. 75.7-76.2-Reddish brown, fine sand, damp. 76.2-76.9-Grayish brown coarse sand with pumice, damp. 76.9-77.1-Reddish brown fine sand, damp. 77.1-77.5-Light grayish brown, coarse sand with pumice and dacite cobbles, damp.	
77.5	100	AAB0442	HNu-ND Rad-101	77.5-80 32	77.5-79.7-Light brown, coarse sand with dacite cobbles. 79.7-80-Light brown, medium sand with pumice.	Sample 77.5-80 feet.
80					TOTAL DEPTH: 80 FEET	

Prepared By: Kenneth A. Shields Date: 10/28/94 Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-13

SAMPLE CONTAINER TOTAL: 10

DOCUMENTATION ARRIVED AT SMF?	FIELD SITE TO TRANSPORT	
	PERSON ACCEPTING CUSTODY	DATE AND TIME
	PERSON RELEASING CUSTODY	DATE AND TIME
	TRANSPORT TO SMF	
	PERSON ACCEPTING CUSTODY	DATE AND TIME
	Adrianna Sparks	11-4-94 11:55
	PERSON RELEASING CUSTODY	DATE AND TIME
	Cathy Bonz	11/4/94 11:55

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE
FCT 0001521	0.5	10.0	001	CORE			0.5	1.2	UNREC
							1.2	2.5	REC
							2.5	3.3	UNREC
							3.3	5.0	REC
							5.0	5.5	UNREC
							5.5	7.5	REC
							7.5	8.0	UNREC
							8.0	10.0	SPC-Fld
FCT 0001522	10.0	20.0	002	CORE			10.0	10.7	UNREC
							10.7	12.5	REC
							12.5	13.5	UNREC
							13.5	15.0	REC
							15.0	15.5	UNREC
							15.5	17.5	REC
							17.5	17.8	UNREC
							17.8	20.0	SPC-Fld
FCT 0001523	20.0	30.0	003	CORE			20.0	20.2	UNREC
							20.2	22.5	REC
							22.5	23.5	UNREC
							23.5	25.0	REC
							25.0	25.9	UNREC
							25.9	27.5	REC
							27.5	27.7	UNREC
							27.7	30.0	SPC-Fld

FOR SMF USE
Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-13

SAMPLE CONTAINER TOTAL: 10

DOCUMENTATION	ARRIVED AT SMF?

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME

TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Jacks	11-4-94 11:55
PERSON RELEASING CUSTODY	DATE AND TIME
[signature]	11/4/94 11:55

CONTAINER ID	BOX INTERVAL TOP	BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	BOTTOM	EXISTENCE	
FCT 0001524	30.0	35.0	004	CORE			30.0	32.5	REC	
							32.5	32.7	UNREC	✓
							32.7	35.0	REC	
FCT 0001525	35.0	42.5	005	CORE			35.0	37.5	REC	
							37.5	40.0	SPC-Fld	✓
							40.0	42.5	REC	
FCT 0001526	42.5	47.5	006	CORE			42.5	47.5	REC	✓
FCT 0001527	47.5	57.5	007	CORE			47.5	50.0	SPC-Fld	✓
							50.0	57.5	REC	
FCT 0001528	57.5	65.0	008	CORE			57.5	57.7	UNREC	✓
							57.7	60.0	SPC-Fld	
							60.0	65.0	REC	
FCT 0001529	65.0	72.5	009	CORE			65.0	67.5	REC	
							67.5	70.0	SPC-Fld	✓
							70.0	72.5	REC	
FCT 0001530	72.5	80.0	010	CORE			72.5	75.0	REC	
							75.0	75.1	UNREC	✓
							75.1	77.5	REC	
							77.5	80.0	SPC-Fld	

FOR SMF USE
Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | FIELD SCREENING LOG

TA/OU 39/1132 Borehole ID: ASC-13 Checked By: KAS Date: Page 1 of 2

Run No.	Run Interval	Hazard	Screening Method	Reading	Acceptance Criteria BELOW	Acceptance Criteria ABOVE	Technician's Certification
1	0.5-2.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	95	X		
2	2.5-5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	119	X		
3	5-7.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	99	X		
4	7.5-10	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	96	X		
5	10-12.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	103	X		
6	12.5-15	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	92	X		
7	15-17.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	89	X		
8	17.5-20	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	100	X		
9	20-22.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	93	X		
10	22.5-25	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	96	X		
11	25-27.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	92	X		
12	27.5-30	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	98	X		
13	30-32.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	106	X		
14	32.5-35	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	107	X		
15	35-37.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	111	X		
16	37.5-40	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	91	X		
17	40-42.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	127	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | FIELD SCREENING LOG

TA/OU 39/1132 Borehole ID: ASC-13 Checked By: KAS Date: Page 2 of 2

Run No.	Run Interval	Hazard	Screening Method	Reading	Acceptance Criteria BELOW	Acceptance Criteria ABOVE	Technician's Certification
18	42.5-45	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	95	X		
19	45-47.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	103	X		
20	47.5-50	50	HNu	ND	X		
	"	RAD	449 Ludlum	123	X		
21	50-52.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	100	X		
22	52.5-55	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	113	X		
23	55-57.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	95	X		
24	57.5-60	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	94	X		
25	60-62.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	107	X		
26	62.5-65	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	93	X		
27	65-67.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	91	X		
28	67.5-70	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	91	X		
29	70-72.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	95	X		
30	72.5-75	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	97	X		
31	75-77.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	96	X		
32	77.5-80	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	101	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 39/1132 Borehole ID ASC-13 Checked By ____ Date 9/1/94 Page 1 of 2

Photographed By C BIRNEY Date 8/31-9/1/94

Roll		Exposure			Run		Box		Other
No.	ASA	No.	f-stop	Speed	No.	Interval	Bar Code #	Interval	
14	200	1			1	0.5-2.5	1521	0.5-1.0 CP 9/1/94	
		2			2	2.5-5	"	"	
		3			3	5-7.5	"	"	
		4			4	7.5-10	1521	0.5-10	
		5			5	10-12.5	1522	10-20	
		6			6	12.5-15	"	"	
		7			7	15-17.5	"	"	
		8			8	17.5-20	1522	10-20	
		9			9	20-22.5	1523	20-30	
		10			10	22.5-25	"	"	
		11			11	25-27.5	"	"	
		12			12	27.5-30	1523	20-30	
		13			13	30-32.5	1524	30-35	
		14			14	32.5-35	1524	30-35	
		15			15	35-37.5	1525	35-42.5	
		16			16	37.5-40	"	"	
		17			17	40-42.5	1525	35-42.5	
		18			18	42.5-45	1526	42.5-47.5	
		19			19	45-47.5	1526	42.5-47.5	
		20			20	47.5-50	1527	47.5-57.5	
		21			21	50-52.5	"	"	
		22			22	52.5-55	"	"	
		23			23	55-57.5	1527	47.5-57.5	
		Missed			24	57.5-60	1528	57.5-65	
		24			25	60-62.5	"	"	
		25			26	62.5-65	1528	57.5-65	
		26			27	65-67.5	1529	65-72.5	
		27			28	67.5-70	"	"	
		28			29	70-72.5	1529	65-72.5	

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 51 | 1132 Borehole ID ASC-13 Checked By _____ Date _____ Page 2 of 2

Photographed By C BIRNEY Date 8/31-9/1/94

Roll		Exposure			Run		Box		Other
No.	ASA	No.	f-stop	Speed	No.	Interval	Bar Code #	Interval	
14	200	29			30	72.5-75	1530	72.5-80	
		30			31	75-77.5	"	"	
		31			32	77.5-80	1530	72.5-80	

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization CST-9 _____

Telephone ( ) _____ _____

Form Completed By C BIRNEY Date 9/1/94 Page 1 of 2

Borehole ID ASC-13 TA/OU 39 / 1152

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
3099	✓	0-0.5 ft / 8/31/94	✓	✓	✓
3100	✓	8-10 (½ core) / 8/31/94	✓	✓	✓
3101	✓	17.8-20 (½ core) / 8/31/94	✓	✓	✓
3102	✓	27.7-30 (½ core) / 8/31/94	✓	✓	✓
3103	✓	37.5-40 (½ core) / 8/31/94	✓	✓	✓
3104	✓	47.5-50 (½ core) / 8/31/94	✓	✓	✓
3105	✓	57.7-60 (½ core) / 9/1/94	✓	✓	✓
3106	✓	67.5-70 (½ core) / 9/1/94	✓	✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody: _____ Person Accepting Custody: _____

Date/ Time _____ Date/ Time _____

SNF USE ONLY Checked By _____ Date _____

R.1

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization EST-9 _____

Telephone ( ) _____

Form Completed By C. BIRNEY Date 9-1-94 Page 2 of 2

Borehole ID ASC-13 TA/OU 39, 1132

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
3107	✓	77.5 - 80 (½ core) / 9/1/94	✓	✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody: _____ Person Accepting Custody: _____

Date/ Time _____ Date/ Time _____

SMF USE ONLY: Checked By _____ Date _____

R.1

TARGET PAGE

This target page represents media that was **not** scanned. The original media can be obtained **through** the Records Processing Facility.

ER ID # 76868

RECORD TYPE: PHOTOS

DATE: 041132

SYMBOL: PRS 39-001(B)

SUBJECT: ASC-13 (32 PHOTOS)

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-14 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft.
Date/Time Start: 8/16/94
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

End: 8/17/94

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
2.5	70	Surface AAB0444	HNu-ND Rad-100	0.5-2.5 1	Sandy silty loam, damp at 2.1 feet.	Surface sample-0-0.5 feet.
5	76		HNu-ND Rad-99	2.5-5 2	Medium to coarse sand with some silt, damp.	
7.5	76		HNu-ND Rad-83	5-7.5 3	Medium to coarse sand with tuff cobbles.	
10	76	AAB0445	HNu-ND Rad-95	7.5-10 4	Very coarse sand with pebbles.	Sample 9.3-10 feet.
12.5	80		HNu-ND Rad-104	10-12.5 5	10.5-11.5-Same as above. 11.5-12.5-Fine to medium silty sand.	
15	96		HNu-ND Rad-114	12.5-15 6	12.6-14-Medium to coarse silty sand with cobbles. 14-15-Coarse sandy silt.	
17.5	76		HNu-ND Rad-110	15-17.5 7	Fine to medium sand with silt.	
20	96	AAB0446	HNu-ND Rad-96	17.5-20 8	Medium sand with silt, pebbles, and cobbles (tuff and dacite)	Sample 19.2-20 feet.
22.5	100		HNu-ND Rad-89	20-22.5 9	Fine to coarse sand.	
25	100		HNu-ND Rad-109	22.5-25 10	Medium to coarse sand.	
27.5	96		HNu-ND Rad-99	25-27.5 11	Sandy silty clay.	
30	100	AAB0447	HNu-ND Rad-102	27.5-30 12	Sandy silty clay with cobbles.	Sample 29-30 feet.

Prepared By: Kenneth G. Shields Jr. Date: 10/26/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-14 TA/OU: 39/1132 Drill Depth From: 0.5 ft. To: 80 ft. Page: 2 of: 3
Driller: Stewart Brothers Box (s): Date/Time Start: 8/16/94 End: 8/17/94
Drilling Equip./Method: CME 750 Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
30	100		HNu-ND Rad-110	30-32.5 13	Fine sandy silty clay to silty clayey sand.	
32.5	96		HNu-ND Rad-112	32.5-35 14	Silty clayey fine sand.	
35	96		HNu-ND Rad-104	35-37.5 15	Silty fine sand.	
37.5	96	AAB0448	HNu- Rad-	37.5-40 16	Dense, fine silty sand.	Sample 39-40 feet.
40	100		HNu-ND Rad-105	40-42.5 17	Dark brown, clayey sandy silt.	
42.5	100		HNu-ND Rad-97	42.5-45 18	Same as above, with sanidine crystals.	
45	100		HNu-ND Rad-92	45-47.5 19	45-45.5-Medium silty sand. 45.5-47.5-Clayey silt with some sand.	
47.5	100	AAB0449	HNu-ND Rad-115	47.5-50 20	47.5-48.3-Silty medium sand. 48.3-50-Dark brown, silty fine sand.	Sample 49-50 feet.
50	100		HNu-ND Rad-101	50-52.5 21	50-50.3-Silty fine sand. 50.3-51.5-Silty fine to medium sand. 51.5-52.5-Coarse sand with fine sand layers.	
52.5	76		HNu-ND Rad-117	52.5-55 22	53.1-54.5-Silty fine to medium sand. 54.5-55-Purple brown weathered tuff.	
55	100		HNu-ND Rad-111	55-57.5 23	55-56-Fine to medium red brown clayey silty sand. 56-56.3-Sandy clay with black staining. 56.3-57.5-Extremely weathered tuff-clay with relic minerals.	
57.5						

Prepared By: Kenneth A. Shields Jr. Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-14 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft.
Date/Time Start: 8/16/94
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

End: 8/17/94

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
57.5	100	AAB0450	HNu-ND Rad-103	57.5-60 24	Purple brown weathered tuff to fine sandy clay with relic mineralization, prevalent Fe staining.	Sample 58.6-60 feet.
60	80		HNu-ND Rad-88	60-62.5 25	60.5-62-Color change to orange brown (Fe stain). 62-62.5-Interlayered purple brown and pink weathered tuff with large cobble.	
62.5	100		HNu-ND Rad-80	62.5-65 26	Pink tuff weathered to sandy silty clay, Fe stained to 64.4 feet.	
65	96	AAB0573	HNu-ND Rad-96	65-67.5 27	65.1-66.1-Saturated layer of coarse sand with silty clay, manganese nodule formation at 65.5 feet. 661.-67.5-Light brown tuff, weathered to silt with pumice clasts.	Sample 65.1-66 feet.
67.5	84	AAB0451	HNu-ND Rad-111	67.5-70 28	Tuff weathered to orange brown silt with sand, cobbles and pumice.	Sample 69.3-70 feet.
70	96		HNu-ND Rad-100	70-72.5 29	Medium brown fine sand with cobbles and pebbles.	
72.5	100		HNu-ND Rad-96	72.5-75 30	72.5-74-Sugary texture uncon-solidated tuff. 74-75-Fine sand texture tuff with cobbles.	
75	100		HNu-ND Rad-108	75-77.5 31	75-77.4-Fine sand with pebbles and cobbles, pumice. 77.4-77.5-Sugary texture.	
77.5	96	AAB0452	HNu-ND Rad-89	77.5-80 32	77.6-77.9-Mauve tuff layer. 77.9-80-Sugary unconsolidated tuff with pebbles and cobbles.	Sample 77.9-80 feet.
80					TOTAL DEPTH: 80 FEET	

Prepared By: Date: 10/28/94 Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-14

SAMPLE CONTAINER TOTAL: 14

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME

DOCUMENTATION	ARRIVED AT SMF?

TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:14
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth A. Shirley Jr.	11-4-94 11:14

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE
FCT 0001541	0.5	5.0	001	CORE			0.5	1.1	UNREC
							1.1	2.5	REC ✓
							2.5	3.1	UNREC
							3.1	5.0	REC
FCT 0001542	5.0	12.5	002	CORE			5.0	5.6	UNREC
							5.6	7.5	REC
							7.5	8.1	UNREC
							8.1	9.3	REC ✓
							9.3	10.0	SPC-Fld
							10.0	10.5	UNREC
							10.5	12.5	REC
FCT 0001543	12.5	17.5	003	CORE			12.5	12.6	UNREC
							12.6	15.0	REC ✓
							15.0	15.6	UNREC
							15.6	17.5	REC
FCT 0001544	17.5	22.5	004	CORE			17.5	17.6	UNREC
							17.6	19.2	REC ✓
							19.2	20.0	SPC-Fld
							20.0	22.5	REC
FCT 0001545	22.5	27.5	005	CORE			22.5	25.0	REC
							25.0	25.1	UNREC
							25.1	27.5	REC ✓

FOR SMF USE
Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-14

SAMPLE CONTAINER TOTAL: 14

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME

DOCUMENTATION	ARRIVED AT SMF?

TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Brianna Sparks	11-4-94 11:14
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth A. Shirley Jr.	11-4-94 11:14

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE
FCT 0001546	27.5	32.5	006	CORE			27.5	29.0	REC
							29.0	30.0	SPC-Fld
							30.0	32.5	REC
FCT 0001547	32.5	40.0	007	CORE			32.5	32.6	UNREC
							32.6	35.0	REC
							35.0	35.1	UNREC
							35.1	37.5	REC
							37.5	37.6	UNREC
							37.6	39.0	REC
							39.0	40.0	SPC-Fld
FCT 0001548	40.0	45.0	008	CORE			40.0	45.0	REC
FCT 0001549	45.0	50.0	009	CORE			45.0	49.0	REC
							49.0	50.0	SPC-Fld
FCT 0001550	50.0	55.0	010	CORE			50.0	52.5	REC
							52.5	53.1	UNREC
							53.1	55.0	REC

FOR SMF USE
Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-14

SAMPLE CONTAINER TOTAL: 14

DOCUMENTATION	ARRIVED AT SMF?

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME
TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-99 11:24
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth A. Shirley Jr.	11-4-99 11:14

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE
FCT 0001551	55.0	60.0	011	CORE			55.0	58.6	REC
							58.6	60.0	SPC-Fld
FCT 0001552	60.0	65.0	012	CORE			60.0	60.5	UNREC
							60.5	65.0	REC
FCT 0001553	65.0	72.5	013	CORE			65.0	65.1	UNREC
							65.1	66.0	SPC-Fld
							66.0	67.5	REC
							67.5	67.9	UNREC
							67.9	69.3	REC
							69.3	70.0	SPC-Fld
							70.0	70.1	UNREC
							70.1	72.5	REC
FCT 0001554	72.5	80.0	014	CORE			72.5	77.5	REC
							77.5	77.6	UNREC
							77.6	77.9	REC
							77.9	80.0	SPC-Fld

FOR SMF USE
Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | FIELD SCREENING LOG

TA/OU 39/1132 Borehole ID: ASC-14 Checked By: KAS Date: Page 1 of 2

Run No.	Run Interval	Hazard	Screening Method	Reading	Acceptance Criteria BELOW	Acceptance Criteria ABOVE	Technician's Certification
1	0.5-2.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	100	X		
2	2.5-5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	99	X		
3	5-7.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	83	X		
4	7.5-10	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	95	X		
5	10-12.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	104	X		
6	12.5-15	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	114	X		
7	15-17.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	110	X		
8	17.5-20	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	96	X		
9	20-22.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	89	X		
10	22.5-25	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	109	X		
11	25-27.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	99	X		
12	27.5-30	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	102	X		
13	30-32.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	110	X		
14	32.5-35	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	110	X		
15	35-37.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	104	X		
16	37.5-40	VOC	HNu		X		
	"	RAD	449 Ludlum		X		
17	40-42.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	105	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | **FIELD SCREENING LOG**

TA/OU 39/1132 Borehole ID: ASC-14 Checked By: KAS Date: Page 2 of 2

Run No.	Run Interval	Hazard	Screening Method	Reading	Acceptance Criteria BELOW	Acceptance Criteria ABOVE	Technician's Certification
18	42.5-45	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	97	X		
19	45-47.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	92	X		
20	47.5-50	50	HNu	ND	X		
	"	RAD	449 Ludlum	115	X		
21	50-52.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	101	X		
22	52.5-55	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	117	X		
23	55-57.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	111	X		
24	57.5-60	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	103	X		
25	60-62.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	88	X		
26	62.5-65	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	80	X		
27	65-67.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	96	X		
28	67.5-70	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	111	X		
29	70-72.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	100	X		
30	72.5-75	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	96	X		
31	75-77.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	108	X		
32	77.5-80	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	89	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 39/1152 Borehole ID ASC-1 Checked By ____ Date ____ Page 1 of 2

Photographed By C. Birney Date 8/17/94

Roll		Exposure			Run		Box		Other
No.	ASA	No.	f-stop	Speed	No.	Interval	Bar Code #	Interval	
					1	0.5'-2.5'	1541	0.5'-5'	
					2	2.5'-5'	1541	0.5'-5'	
					3	5'-7.5'	1542	5'-12.5'	
					4	7.5'-10'	1542	5'-12.5'	
					5	10'-12.5'	1542	5'-12.5'	
					6	12.5'-15'	1543	12.5'-17.5'	
					7	15'-17.5'	1543	12.5'-17.5'	
					8	17.5'-20'	1544	17.5'-22.5'	
					9	20'-22.5	1544	17.5'-22.5'	
					10	22.5'-25'	1545	22.5-27.5	
					11	25'-27.5'	1545	22.5'-27.5'	
					12	27.5'-30'	1546	27.5'-32.5'	
					13	30'-32.5'	1546	27.5'-32.5'	
					14	32.5'-35'	1547	32.5'-40'	
					15	35'-37.5'	1547	32.5'-40'	
					16	37.5'-40'	1547	32.5'-40	
					17	40'-42.5'	1548	40'-45'	
					18	42.5'-45'	1548	40'-45'	
					19	45'-47.5'	1549	45'-50'	
					20	47.5'-50'	1549	45'-50'	
					21	50'-52.5'	1550	50'-55'	
					22	52.5'-55'	1550	50'-55'	
					23	55'-57.5'	1551	55'-60'	
					24	57.5'-60'	1551	55'-60'	
					25	60'-62.5'	1552	60'-65'	
					26	62.5'-65'	1552	60'-65'	
					27	65'-67.5'	1553	65'-72.5'	
					28	67.5'-70'	1553	65'-72.5'	
					29	70'-72.5'	1553	65'-72.5'	

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 54/1132 Borehole ID ASC-14 Checked By _____ Date _____ Page 2 of 2

Photographed By C. Birney Date 8-17-94

Roll		Exposure			Run		Box		Other
No.	ASA	No.	f-stop	Speed	No.	Interval	Bar Code #	Interval	
					30	72.5'-75'	1554	72.5'-80'	
					31	75'-77.5'	1554	72.5'-80'	
					32	77.5'-80'	1554	72.5'-80'	

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization CST-9

Telephone ( ) _____

Form Completed By Don Trujillo Date 8-17-94 Page 1 of 2

Borehole ID Ass-14 TA/OU 39 / 1132

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
3072	✓	0 - 0.5' / 8-16-94	✓	✓	✓
3073	✓	9.3' - 10' / 8-16-94	✓	✓	✓
3064	✓	19.2' - 20' / 8-16-94	✓	✓	✓
3065	✓	29' - 30' / 8-16-94	✓	✓	✓
3066	✓	39' - 40' / 8-16-94	✓	✓	✓
3067	✓	49' - 50' / 8-17-94	✓	✓	✓
3068	✓	58.6' - 60' / 8-17-94	✓	✓	✓
3074	✓	65' - 66' / 8-17-94	✓	✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody: _____ Person Accepting Custody: _____

Date/ Time _____ Date/ Time _____

SMF USE ONLY Checked By _____ Date _____

R.1

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization EST-9 _____

Telephone ( ) _____

Form Completed By Don Trujillo Date 8-17-94 Page 2 of 2

Borehole ID ASC-14 TA/OU 39 / 1132

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
3075	✓	69.3'-70' / 8-16-94	✓	✓	✓
3076	✓	77.9'-80' / 8-16-94	✓	✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody: _____ Person Accepting Custody: _____

Date/ Time _____ Date/ Time _____

SMF USE ONLY Checked By _____ Date _____

R.1

TARGET PAGE

This target page represents media that was not scanned. The original media can be obtained through the Records Processing Facility.

ER ID # 76868

RECORD TYPE: PHOTOS

DATE: 041132

SYMBOL: PRS 39-001(B)

SUBJECT: ASC-14 (32 Photos)

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — **CORE SAMPLE LOG**

Borehole ID: ASC-15 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft.
Date/Time Start: 8/19/9, 0900
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Page: 1 of: 3
End: 8/23/94, 1050

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
2.5	65	Surface AAB0455	HNu-ND Rad-104	0.5-2.5 1	1.2-1.9 ft. - Sandy silty loam 1.9-2.5 ft. - Damp, dense silt with pumice.	Surface sample-0-0.5 feet.
5	40		HNu-ND Rad-88	2.5-5 2	Very coarse sand and pebbles, damp	
7.5	28		HNu-ND Rad-97	5-7.5 3	Very coarse sand, some fine, damp.	
10	32	AAB0456	HNu-ND Rad-102	7.5-10 4	Medium to very coarse sand.	Sample 9.4-10 feet.
12.5	84		HNu-ND Rad-87	10-12.5 5	Same as above.	
15	100		HNu-ND Rad-104	12.5-15 6	Same as above.	
17.5	100		HNu-ND Rad-97	15-17.5 7	15-16.1 ft. - Same as above. 16.1-17.5 ft.-Fine silty sand interlayered with coarse silty sand.	
20	92	AAB0457	HNu-ND Rad-94	17.5-20 8	17.7-19-Fine to medium sand 19-19.6-Very coarse sand to fine gravel. 19.6-20-Dense silt	Sample 19.6-20 feet.
22.5	100		HNu-ND Rad-108	20-22.5 9	20-20.8-Silt with cobbles 20.8-20.-Medium sand 20.9-21.6-Fine sandy silt 21.6-22.5- Silty fine gravel.	
25	100		HNu-ND Rad-108	22.5-25 10	22.5-23.7-Medium, sugary texture, unconsolidated tuff with cobbles. 23.7-25-Coarse, sugary texture, unconsolidated tuff with cobbles and cemented clasts.	
27.5	100		HNu-ND Rad-102	25-27.5 11	25-26.5-Coarse sand with silt and pebbles, sanidine crystals. 26.5-27.5-Medium brown dense clayey silt with pebbles.	

Prepared By: [illegible signature] Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY — CORE SAMPLE LOG

Borehole ID: ASC-15 TA/OU: 39/1132 Drill Depth From: 0.5 ft. To: 80 ft. Page: 2 of: 3
Driller: Stewart Brothers Box (s): Date/Time Start: 8/19/9, 0900 End: 8/23/94, 1050
Drilling Equip./Method: CME 750 Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
27.5	100	AAB0458	HNu-ND Rad-110	27.5-30 12	Dark brown, sandy silty clay.	Sample 28.3-30 feet.
30	100		HNu-ND Rad-106	30-32.5 13	Same as above with varying amounts of sand and clay.	
32.5	100		HNu-ND Rad-92	32.5-35 14	Dark brown, sandy silt with some clay.	
35	100		HNu-ND Rad-94	35-37.5 15	Same as above.	
37.5	100	AAB0459	HNu-ND Rad-97	37.5-40 16	Dark brown, silty fine sand with some clay.	Sample 38.6-40 feet.
40	100		HNu-ND Rad-96	40-42.5 17	Clayey silty sand.	
42.5	100		HNu-ND Rad-108	42.5-45 18	Sandy silty clay with tuff cobbles.	
45	100		HNu-ND Rad-106	45-47.5 19	45-46.9-Sandy silt. 46.9-47.5-Silty sand.	
47.5	100	AAB0460	HNu-ND Rad-103	47.5-50 20	Medium sandy silt to dark brown silty very fine sand with pebbles.	Sample 49.3-50 feet.
50	100		HNu-ND Rad-114	50-52.5 21	Fine silty clayey sand.	
52.5	100		HNu-ND Rad-103	52.5-55 22	Purple brown weathered tuff.	
55	100		HNu-ND Rad-102	55-57.5 23	Wet, sandy silty clay . Dacite cobble at 57.5	
57.5						

Prepared By: Kenneth Philips Date: 10/28/94 Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

CORE SAMPLE LOG

Borehole ID: ASC-15 TA/OU: 39/1132
Driller: Stewart Brothers Box (s):
Drilling Equip./Method: CME 750

Drill Depth From: 0.5 ft. To: 80 ft.
Date/Time Start: 8/19/94, 0900
Sampling Equip./Method: 4.25 ID HSA, 3.5 ID Continuous Core Sampler

End: 8/23/94, 1050

Depth (Feet)	Recovery (Feet /Feet %)	Field Borehole Analytical Sample Number	Field Screening Results	Sample Interval and Run Number	Lithology - Petrology - Soil	Notes
57.5	96	AAB0461 Dup: AAB0462	HNu-ND Rad-112	57.5-60 24	Red brown, sandy silty clay with cobbles.	Sample 58.7-60 feet.
60	68		HNu-ND Rad-103	60-62.5 25	Silty clayey sand with purple tuff cobbles and pumice. Orange brown to dark brown staining at 62.5 ft., wet.	
62.5	76		HNu-ND Rad-87	62.5-65 26	63.1-64-Silty clay with cobbles and iron staining. 64-65-Ash flow material with pumice and cobbles, wet and iron staining.	
65	72		HNu-ND Rad-77	65-67.5 27	Pumice with cobbles and pebbles, very wet.	
67.5	64	AAB0463	HNu-ND Rad-83	67.5-70 28	Pumice sand with pebbles and large cobbles, saturated.	Sample 69.1-70 feet.
70	100		HNu-ND Rad-87	70-72.5 29	70-71.4-Coarse dark sand. 71.4-71.5-Layer of black metallic deposition with iron staining. 71.5-72.5-Pumice sand with cobbles, saturated.	
72.5	0			72.5-75 30	No recovery.	
75	0			75-77.5 31	No recovery.	
77.5	100	AAB0464	HNu-ND Rad-98	77.5-80 32	Medium to coarse sand with large cobbles and pebbles, saturated.	Sample 77.5-80 feet.
80					TOTAL DEPTH: 80 FEET	

Prepared By: Kenneth O. Shirley Jr. Date: 10/28/94 Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-15

SAMPLE CONTAINER TOTAL: 13

DOCUMENTATION	ARRIVED AT SMF?

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME
TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:10
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth A. Shirley Jr.	11-4-94 11:10

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE	
FCT 0001571	0.5	12.5	001	CORE			0.5	1.2	UNREC	
							1.2	2.5	REC	
							2.5	4.0	UNREC	
							4.0	5.0	REC	
							5.0	6.8	UNREC	
							6.8	7.5	REC	
							7.5	9.2	UNREC	✓
							9.2	9.4	REC	
							9.4	10.0	SPC-Fld	
							10.0	10.4	UNREC	
							10.4	12.5	REC	
FCT 0001572	12.5	20.0	002	CORE			12.5	17.5	REC	
							17.5	17.7	UNREC	✓
							17.7	19.6	REC	
							19.6	20.0	SPC-Fld	
FCT 0001573	20.0	25.0	003	CORE			20.0	25.0	REC	✓
FCT 0001574	25.0	30.0	004	CORE			25.0	28.3	REC	✓
							28.3	30.0	SPC-Fld	
FCT 0001575	30.0	35.0	005	CORE			30.0	35.0	REC	✓

FOR SMF USE
Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-15

SAMPLE CONTAINER TOTAL: 13

DOCUMENTATION	ARRIVED AT SMF?

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME
TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:10
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth a. Libby Jr.	11-4-94 11:10

CONTAINER ID	BOX INTERVAL TOP	BOX INTERVAL BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	SAMPLE INTERVALS BOTTOM	SAMPLE INTERVALS EXISTENCE
FCT 0001576	35.0	40.0	006	CORE			35.0	38.6	REC ✓
							38.6	40.0	SPC-Fld
FCT 0001577	40.0	45.0	007	CORE			40.0	45.0	REC ✓
FCT 0001578	45.0	50.0	008	CORE			45.0	49.3	REC ✓
							49.3	50.0	SPC-Fld
FCT 0001579	50.0	55.0	009	CORE			50.0	55.0	REC ✓
FCT 0001580	55.0	60.0	010	CORE			55.0	57.5	REC
							57.5	57.6	UNREC ✓
							57.6	58.7	REC
							58.7	60.0	SPC-Fld
FCT 0003717	60.0	65.0	011	CORE			60.0	60.8	UNREC
							60.8	62.5	REC ✓
							62.5	63.1	UNREC
							63.1	65.0	REC

FOR SMF USE
Checked By: Date:

SAMPLE MANAGEMENT FACILITY
FIELD CONTAINER SUMMARY AND TRANSMITTAL FORM

BOREHOLE ID: ASC-15

SAMPLE CONTAINER TOTAL: 13

FIELD SITE TO TRANSPORT	
PERSON ACCEPTING CUSTODY	DATE AND TIME
PERSON RELEASING CUSTODY	DATE AND TIME

DOCUMENTATION	ARRIVED AT SMF?

TRANSPORT TO SMF	
PERSON ACCEPTING CUSTODY	DATE AND TIME
Adrianna Sparks	11-4-94 11:10
PERSON RELEASING CUSTODY	DATE AND TIME
Kenneth A. Hicks Jr.	11-4-94 11:10

CONTAINER ID	BOX INTERVAL TOP	BOTTOM	SEQUENTIAL BOX NUMBER	SAMPLE TYPE	SHIPPED OK	RECEIVED OK	SAMPLE INTERVALS TOP	BOTTOM	EXISTENCE
FCT 0003718	65.0	70.0	012	CORE			65.0	65.7	UNREC
							65.7	67.5	REC
							67.5	68.4	UNREC
							68.4	69.1	REC
							69.1	70.0	SPC-Fld
FCT 0003719	70.0	80.0	013	CORE			70.0	72.5	REC
							72.5	77.5	UNREC
							77.5	80.0	SPC-Fld

FOR SMF USE
Checked By: Date:

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | **FIELD SCREENING LOG**

TA/OU 39/1132 Borehole ID: ASC-15 Checked By: KAS Date: Page 1 of 2

Run		Hazard	Screening	Reading	Acceptance Criteria		Technician's
No.	Interval		Method		BELOW	ABOVE	Certification
1	0.5-2.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	104	X		
2	2.5-5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	86	X		
3	5-7.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	97	X		
4	7.5-10	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	102	X		
5	10-12.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	87	X		
6	12.5-15	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	104	X		
7	15-17.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	97	X		
8	17.5-20	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	94	X		
9	20-22.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	108	X		
10	22.5-25	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	108	X		
11	25-27.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	102	X		
12	27.5-30	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	110	X		
13	30-32.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	106	X		
14	32.5-35	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	92	X		
15	35-37.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	94	X		
16	37.5-40	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	97	X		
17	40-42.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	96	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY | **FIELD SCREENING LOG**

TA/OU 39/1132 Borehole ID: ASC-15 Checked By: KAS Date: Page 2 of 2

Run No.	Run Interval	Hazard	Screening Method	Reading	Acceptance Criteria BELOW	Acceptance Criteria ABOVE	Technician's Certification
18	42.5-45	VOC	HNu	ND	X		
	"	RAD	449 Ludlum *	108	X		
19	45-47.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	106	X		
20	47.5-50	50	HNu	ND	X		
	"	RAD	449 Ludlum	103	X		
21	50-52.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	114	X		
22	52.5-55	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	103	X		
23	55-57.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	102	X		
24	57.5-60	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	112	X		
25	60-62.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	103	X		
26	62.5-65	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	87	X		
27	65-67.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	77	X		
28	67.5-70	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	83	X		
29	70-72.5	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	87	X		
30	72.5-75		NO RECOVERY		X		
31	75-77.5		NO RECOVERY		X		
32	77.5-80	VOC	HNu	ND	X		
	"	RAD	449 Ludlum	98	X		

* BETA, GAMMA PROBE; CURSORY SCAN, 1 MINUTE COUNT

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 39/1132 Borehole ID ASC-15 Checked By _____ Date _____ Page 1 of 2

Photographed By Ken Shisler Date _____

Roll		Exposure			Run		Box		Other
No.	ASA	No.	f-stop	Speed	No.	Interval	Bar Code #	Interval	
12	200	8			1	0.5-2.5	1571	0.5-12.5	8-19-94
		9			2	2.5-5			
		10			3	5-7.5			
		11			4	7.5-10			
		12			5	10-12.5	1571	0.5-12.5	
		13			6	12.5-15	1572	12.5-20	
		14			7	15-17.5	1		
		15			8	17.5-20	1572	12.5-20	
		16			9	20-22.5	1573	20-25	
		17			10	22.5-25	1573	20-25	8-19-94
		Missed			11	25-27.5	1574	25-30	8-22-94
		18			12	27.5-30	1574	~~25-30 35-99~~ 25|M	
		19			13	30-32.5	1575	30-35	
		20			14	32.5-35	1575	30-35	
		21			15	35-37.5	1576	35-40	
		22			16	37.5-40	1576	35-40	
		23			17	40-42.5	1577	40-45	
		24			18	42.5-45	1577	40-45	
		25			19	45-47.5	1578	45-50	
		26			20	47.5-50	1578	45-50	
		27			21	50-52.5	1579	50-55	
		28			22	52.5-55	1579	50-55	
		29			23	55-57.5	1580	55-60	
		30			24	57.5-60	1580	55-60	
		31			25	60-62.5	3717	60-65	
		Missed			26	62.5-65	3717	60-65	
		32			27	65-67.5	3718	65-70	
		33			28	67.5-70	3718	65-70	
		34			29	70-72.5	3719	70-80	8-22-94

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD PHOTOGRAPHIC LOG

TA/OU 39/1132 Borehole ID ASC-15 Checked By _____ Date _____ Page 2 of 2

Photographed By Ken Shisler Date _____

Roll		Exposure			Run		Box		Other
No.	ASA	No.	f-stop	Speed	No.	Interval	Bar Code #	Interval	
12	200	~~35~~ 8-22-94			30	72.5-75	3719	70-80	No Recovery 8-22-94
					31	75-77.5	3719	1	No Recovery 8-23-94
12	200	35			32	77.5-80	3719	70-80	8-23-94

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization CST-9

Telephone ( ) _____

Form Completed By Ken Shisler Date 8-23-94 Page 1 of 2

Borehole ID ASC-15 TA/OU 39 / 1132

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
3077	✓	0 - 0.5 / 8-19-94	✓	✓	✓
3078	✓	9.4 - 10 / 8-19-94	✓	✓	✓
3079	✓	19.6 - 20 / 8-19-94	✓	✓	✓
3080	✓	28.3 - 30 / 8-22-94	✓	✓	✓
3081	✓	38.6 - 40 / 8-22-94	✓	✓	✓
3082	✓	49.3 - 50 / 8-22-94	✓	✓	✓
3083	✓	58.7 - 60 / 8-22-94	✓	✓	✓
3084	✓	69.1 - 70 / 8-22-94	✓	✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody: _____ Person Accepting Custody: _____

Date/ Time _____ Date/ Time _____

SMF USE ONLY Checked By _____ Date _____

R.1

LOS ALAMOS NATIONAL LABORATORY ENVIRONMENTAL RESTORATION PROGRAM

SAMPLE MANAGEMENT FACILITY

FIELD BOREHOLE ANALYTICAL SAMPLE REMOVAL CHECKLIST

Recipient _____ Address _____

Organization CST-9 _____

Telephone ( ) _____ _____

Form Completed By Ken Shisler Date 8-23-94 Page 2 of 2

Borehole ID ASC-15 TA/OU 39 / 1132

FIELD BOREHOLE ANALYTICAL SAMPLE INFORMATION			CHECKLIST		
Field Borehole Analytical Sample Bar Code Number (SpecID)	Affixed?	Interval Removed / Date Removed	Foam Marker?	Marked & Tagged?	Packaged? Described?
3085	✓	77.5-80 (½ core) / 8-23-94	✓	✓	✓

FIELD BOREHOLE ANALYTICAL SAMPLE TRANSFER

Person Releasing Custody: _____ Person Accepting Custody: _____

Date/ Time _____ Date/ Time _____

SMF USE ONLY Checked By _____ Date _____

R.1

TARGET PAGE

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