

**SAF-RC-148**  
**300 Area D4 Waste Sites –**  
**Soil Full Protocol**  
**FINAL DATA PACKAGE**

**COMPLETE COPY OF DATA PACKAGE TO:**

Kathy Wendt H4-21

KW 11/20/12  
INITIAL/DATE

**COMMENTS:**

**SDG MA05815**

**SAF-RC-148**

Rad only

Chem only

Rad & Chem

Complete

Partial

**Sample Location/Waste Site: 300-46 Waste Site**  
**(3706 Bldg) Verification**

## Asbestos PLM

### Cover Sheet

Sample Date: October 24, 2012  
Receipt Date: November 12, 2012  
Reporting Date: November 19, 2012  
SDG #: MA05815  
SAF#: RC-148  
Data Deliverable: 7 Day Turn

Customer Sample Number	Laboratory Sample Number	Analytical Batch Identification	Sample Matrix
J1R3W3	MXAFF	2317084	SOIL
J1R3W5	MXAFH	2317084	SOIL
J1R3W6	MXAFJ	2317084	SOIL
J1R3W7	MXAFL	2317084	SOIL
J1R3W8	MXAFN	2317084	SOIL
J1R3W9	MXAFP	2317084	SOIL
J1R3X0	MXAFR	2317084	SOIL
J1R3X1	MXAFV	2317084	SOIL

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the following signature.

Reviewed and approved:



Dennis O'Neill  
Project Manager

We certify that the following samples were prepared by Polarized Light Microscopy for asbestos and other fibrous constituents using TestAmerica's procedure, RL-ASB-002. The samples were acceptable upon receipt except where noted. Mountings of fibers observed and representative portions of the material were prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy\*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the portions of materials analyzed and are summarized on the attached Asbestos PLM analysis data sheet. TestAmerica will dispose of all bulk samples after 60 days unless other arrangements are made.

\*Some samples may contain fibers that are not visible by PLM and can only be discovered by electron microscopy techniques.

TA Richland  
Asbestos PLM

Analyst:	D. Petty	SOP Information	Method	Batch #	2317084
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA05815
Date:	11/13/12	Revision 2			
<b>Macroscopic examination</b>					
<b>Sample ID</b>	<b>MXAFF1AA</b>	<b>MXAFH1AA</b>	<b>MXAFJ1AA</b>	<b>MXAFL1AA</b>	<b>MXAFN1AA</b>
<b>Client ID</b>	J1R3W3'	J1R3W5'	J1R3W6'	J1R3W7'	J1R3W8'
Sample Description	soil and stones	soil and stones	soil and stones	soil and stones	soil and stones
Homogeneous	N	N	N	N	N
Color	brown/gray	brown/gray	brown/gray	brown/gray	brown/gray
% Visible Fibers	TRA	TRA	0	0	0
<b>PLM Analysis</b>					
<b>Asbestiform Minerals</b>					
% Chrysotyle	ND	ND	ND	ND	ND
% Amosite	ND	ND	ND	ND	ND
% Crocidolite	ND	ND	ND	ND	ND
% Tremolite	ND	ND	ND	ND	ND
% Actinolite	ND	ND	ND	ND	ND
% Anthophyllite	ND	ND	ND	ND	ND
<b>% Total Asbestos</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
<b>Other Materials</b>					
% Cellulose	ND	ND	ND	ND	ND
% Glass Fibers	ND	ND	ND	ND	ND
% Other fibers	ND	ND	ND	ND	ND
% Non-fibrous	100	100	100	100	100

**Comments:**

Note: "ND" stands for "None Detected". "TRA" stands for "<1%"

**TA Richland  
Asbestos PLM**

Analyst:	D. Petty	SOP Information	Method	Batch #	2317084_2
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA05815
Date:	11/13/12	Revision 2			
<b>Sample ID</b>					
	MXAFP1AA	MXAFR1AA	MXAFV1AA		
<b>Client ID</b>					
	J1R3W9'	J1R3X0'	J1R3X1'		
<b>Macroscopic examination</b>					
Sample Description	soil and stones	soil and stones	soil and stones		
Homogeneous	N	N	N		
Color	brown/gray	brown/gray	brown/gray		
% Visible Fibers	0	0	0		
<b>PLM Analysis</b>					
<b>Asbestiform Minerals</b>					
% Chrysotyle	ND	ND	ND		
% Amosite	ND	ND	ND		
% Crocidolite	ND	ND	ND		
% Tremolite	ND	ND	ND		
% Actinolite	ND	ND	ND		
% Anthophyllite	ND	ND	ND		
<b>% Total Asbestos</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>		
<b>Other Materials</b>					
% Cellulose	ND	TRA	ND		
% Glass Fibers	ND	ND	ND		
% Other fibers	ND	ND	ND		
% Non-fibrous	100	100	100		

**Comments:**

Note: "ND" stands for "None Detected". "TRA" stands for "<1%"

Washington Closure Hanford		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>				RC-148-069	Page 1 of 1
Collector Simonds, M		Company Contact Joan Kessner		Telephone No. 509-375-4688		Project Coordinator KESSNER, JH	
Project Designation 300 Area D4 Waste Sites - Soil Full Protocol		Sampling Location 300 - 46 Waste Site [3706 Bldg] Verification				SAF No. RC-148	
Ice Chest No. <i>NA</i>		Field Logbook No. EL-1663-04		COA R300462000		Method of Shipment <u>Hand Deliver/Government Vehicle/FedEx</u>	
Shipped To Test America Richland (IH)		Offsite Property No. <i>NA</i>				Bill of Lading/Air Bill No. See OSPE A4 10-24-12 <i>NA</i>	
POSSIBLE SAMPLE HAZARDS/REMARKS <i>Potential Radioactive &lt; DOT Limits</i> <i>A4 11-12-12</i>  Special Handling and/or Storage <i>Cooler NONE</i> <i>A4 10-24-12</i>  <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">                     JALIAOYAY                      MAOS815                      Due 11-19-12                 </div>  </div>			Preservation		None		
			Type of Container		G/P		
			No. of Container(s)		1		
			Volume		250mL		
					Asbestos-Bulk - NIOSH 9002		
				<i>BCF</i>			
Sample No.	Matrix *	Sample Date	Sample Time				
J1R3W0	SOIL						
J1R3W1	SOIL	10/26/12					
J1R3W2	SOIL						
J1R3W3	SOIL	10/24/12	0848	✓	34781		
J1R3W4	SOIL	10/24/12					
<b>CHAIN OF POSSESSION</b>				<b>SPECIAL INSTRUCTIONS</b>			
Relinquished By/Removed From		Sign/Print Names		Matrix * S=Soil SE=Settlement SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue WT=Wipe L=Liquid V=Vegetation X=Other			
DAVID BECKER		DAVID BECKER					
MIRANDA SIMONDS		MIRANDA SIMONDS					
A. Freier		A. Freier					
J. Beck		J. Beck					
Relinquished By/Removed From		Received By/Stored In		<div style="border: 2px solid black; border-radius: 50%; padding: 10px; width: 100px; margin: 0 auto;">                         REVIEWED BY  <b>CMB</b>                          DATE                          11-12-12                     </div>			
Date/Time		Date/Time					
Date/Time		Date/Time					
Date/Time		Date/Time					
Date/Time		Date/Time					
LABORATORY SECTION		Received By		Title			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By			

Washington Closure Hanford		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>				RC-148-069		Page <del>2</del> of <del>10</del>		
Collector Simonds, M		Company Contact Joan Kessner		Telephone No. 509-375-4688		Project Coordinator KESSNER, JH		Price Code 8L		
Project Designation 300 Area D4 Waste Sites - Soil Full Protocol		Sampling Location 300 - 46 Waste Site [3706 Bldg] Verification				SAF No. RC-148		10/24/12 Data Turnaround <b>7 Days</b>		
Ice Chest No. <i>NA</i>		Field Logbook No. EL-1663-04		COA R300462000		Method of Shipment <u>Hand Deliver/Government Vehicle/FedEx</u>				
Shipped To Test America Richland (IH)		Offsite Property No. <i>NA</i>				Bill of Lading/Air Bill No. <u>See OSPC A4 10-24-12 NA</u>				
POSSIBLE SAMPLE HAZARDS/REMARKS <i>Removes Radioactive &amp; DOT Limits A4 11-12-12</i>					Preservation None					
Special Handling and/or Storage <i>None A4 10-24-12</i>					Type of Container G/P					
					No. of Container(s) 1					
					Volume 250mL					
<i>JAKI20424 MADSSIS Due 11-19-12</i>					Asbestos- Bulk - NIOSH 9002					
									<i>RCF</i>	
Sample No.	Matrix *	Sample Date	Sample Time							
J1R3W5	MXAFH	10/24/12	0943	✓					34783	
J1R3W6	MXAFT	10/24/12	0911	✓					34782	
J1R3W7	MXAFL	10/24/12	0939	✓					34783	
J1R3W8	MXA FN	10/24/12	1017	✓					34784	
J1R3W9	MXA FP	10/24/12	1206	✓					34785	
<b>CHAIN OF POSSESSION</b>					<b>SPECIAL INSTRUCTIONS</b>					
Relinquished By/Removed From <i>Mikamba Simonds</i>		Date/Time 10/24/12 1345		Received By/Stored In <i>DAVID BECKER</i>		Date/Time 10/24/12 1345				Matrix * S=Soil SE=Setiment SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquid T=Tissue WI=Wipe L=Liquid V=Vegetation X=Other
Relinquished By/Removed From <i>DAVID BECKER</i>		Date/Time 10/24/12 1705		Received By/Stored In <i>A. Freier</i>		Date/Time 10-24-12 1705				
Relinquished By/Removed From <i>A. Freier</i>		Date/Time 11-12-12 1055		Received By/Stored In <i>J. Beck</i>		Date/Time 11-12-12 1055				
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time				
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time				
LABORATORY SECTION	Received By			Title			Date/Time			
FINAL SAMPLE DISPOSITION	Disposal Method			Disposed By			Date/Time			

<b>Washington Closure Hanford</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>			RC-148-069	Page 6 of 7
Collector Simonds, M	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code 8L	Data Turnaround 7 Days	
Project Designation 300 Area D4 Waste Sites - Soil Full Protocol	Sampling Location 300 - 46 Waste Site [3706 Bldg] Verification	Field Logbook No. EL-1663-04	COA R300462000	SAF No. RC-148	Method of Shipment Hand Deliver/Government Vehicle/FedEx	
Ice Chest No. NA	Offsite Property No. NA	Bill of Lading/Air Bill No. See OSPG- A4 10-24-12 NA				

<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b> <del>Radioactive</del> L DOT Limits AS 11-12-12  Special Handling and/or Storage <del>NONE</del> AS 10-24-12	Preservation	None											
	Type of Container	GP											
	No. of Container(s)	1											
	Volume	250mL											

J2K120424  
MARS5815  
Due 11-19-12

SAMPLE ANALYSIS

Asbestos-Bulk - NIOSH 9002

PCF

Sample No.	Matrix *	Sample Date	Sample Time										
J1R3X0MXXAFB	SOIL	10/24/12	1237	✓									
J1R3X1MXXAFV	SOIL	10/24/12	1300	✓									
J1R3X2	SOIL												
J1R3X3 <del>W095</del>	SOIL	10/24/12											
J1R3X4	SOIL												

<b>CHAIN OF POSSESSION</b>		<b>Sign/Print Names</b>		<b>SPECIAL INSTRUCTIONS</b>				<b>Matrix *</b>
Relinquished By/Removed From <i>David Swick</i>	Date/Time 10/24/12 1345	Received By/Stored In <i>DAVID BECKER</i>	Date/Time 10/24/12 1345	REVIEWED BY  DATE 11-12-12				S=Soil SE=Settlement SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue W=Wipe L=Liquid V=Vegetation X=Other
Relinquished By/Removed From <i>DAVID BECKER</i>	Date/Time 10/24/12 1705	Received By/Stored In <i>A. Freier A. Freier</i>	Date/Time 10/24/12 1705					
Relinquished By/Removed From <i>A. Freier A. Freier</i>	Date/Time 11-12-12 1055	Received By/Stored In <i>J. Beck</i>	Date/Time 11-12-12 1055					
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time					
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time					

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time