

SAF-RC-006
100-N Area D4 – Other
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Bill Rodgers

X9-08

KW 11/27/12
INITIAL/DATE

COMMENTS:

SDG MA05851

SAF-RC-006

Rad only

Chem only

Rad & Chem

Complete

Partial

Waste Site(s): 151-B Substation Building

Asbestos PLM Cover Sheet

Sample Date: November 19, 2012
Receipt Date: November 19, 2012
Reporting Date: November 24, 2012
SDG #: MA05851
SAF#: RC-006
Data Deliverable: 7 Day Turn

Customer Sample Number	Laboratory Sample Number	Analytical Batch Identification	Sample Matrix
J1R5W2	MXD1E	2324116	OTHER
J1R5W3	MXD1F	2324116	OTHER
J1R5W4	MXD1G	2324116	OTHER
J1R5W5	MXD1H	2324116	OTHER
J1R5W6	MXD1J	2324116	OTHER
J1R5W7	MXD1K	2324116	OTHER
J1R5W8	MXD1L	2324116	OTHER
J1R5W9	MXD1M	2324116	OTHER
J1R5X0	MXD1N	2324116	OTHER
J1R5X1	MXD1P	2324116	OTHER

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 #	2324116
Analyst Signature:	<i>[Signature]</i>	RL-ASB-002	NIOSH 9002	SDG #	MA05851
Date:	11/20/12	Revision 2			
Sample ID					
MXD1E1AA					
Client ID					
J1R5W2					
Macroscopic examination					
Sample Description	<u>Multiple Layer Sample: tar paper</u>	<u>Multiple Layer Sample: wood</u>	TOTAL SAMPLE *		
Homogeneous	Y	Y	N		
Color	black	brown	black/brown		
% Visible Fibers	30	90	50		
PLM Analysis					
Asbestiform Minerals					
% Chrysotyle	ND	ND	ND		
% Amosite	ND	ND	ND		
% Crocidolite	ND	ND	ND		
% Tremolite	ND	ND	ND		
% Actinolite	ND	ND	ND		
% Anthophyllite	ND	ND	ND		
% Total Asbestos	ND	ND	ND		
Other Materials					
% Cellulose	23	90	50		
% Glass Fibers	7	ND	3		
% Other fibers	ND	ND	ND		
% Non-fibrous	70	10	47		

Comments:

*** The sample contains 2 distinct homogeneous layers which were analyzed and reported separately.**

The total asbestos content (calculated as weighted average) of the sample is reported as well.

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

TA Richland
Asbestos PLM

Analyst:	D. Petty	SOP Information	Method	Batch #	2324116 2
Analyst Signature:	<i>[Signature]</i>	RL-ASB-002	NIOSH 9002	SDG #	MA05851
Date:	11/20/12	Revision 2			
Macroscopic examination					
Sample ID	MXD1F1AA	MXD1G1AA	MXD1J1AA	MXD1K1AA	MXD1L1AA
Client ID	J1R5W3'	J1R5W4'	J1R5W6'	J1R5W7'	J1R5W8'
Sample Description	cloth	tar and spray paint	caulk	tar and tar paper	wall and paint
Homogeneous	Y	Y	Y	N	N
Color	beige/green	black/white	black	black	white/gray
% Visible Fibers	100	10	0	30	0
PLM Analysis					
Asbestiform Minerals					
% Chrysotyle	ND	5	4	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
% Total Asbestos	ND	5	4	ND	ND
Other Materials					
% Cellulose	ND	ND	ND	10	ND
% Glass Fibers	ND	4	ND	ND	ND
% Other fibers	100	ND	ND	ND	ND
% Non-fibrous	ND	91	96	90	100

Comments:

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

**TA Richland
Asbestos PLM**

Analyst:	D. Petty	SOP Information	Method	Batch #	2324116 3
Analyst Signature:	<i>[Signature]</i>	RL-ASB-002	NIOSH 9002	SDG #	MA05851
Date:	11/20/12	Revision 2			
Sample ID					
MXD1H1AA					
Client ID					
J1R5W5					
Macroscopic examination					
Sample Description	<u>Multiple Layer Sample: tar paper</u>	<u>Multiple Layer Sample: wood</u>	TOTAL SAMPLE *		
Homogeneous	Y	Y	N		
Color	black	brown	black/brown		
% Visible Fibers	30	90	50		
PLM Analysis					
Asbestiform Minerals					
% Chrysotyle	ND	ND	ND		
% Amosite	ND	ND	ND		
% Crocidolite	ND	ND	ND		
% Tremolite	ND	ND	ND		
% Actinolite	ND	ND	ND		
% Anthophyllite	ND	ND	ND		
% Total Asbestos	ND	ND	ND		
Other Materials					
% Cellulose	23	90	50		
% Glass Fibers	2	ND	TRA		
% Other fibers	ND	ND	ND		
% Non-fibrous	75	10	50		

Comments:

*** The sample contains 2 distinct homogeneous layers which were analyzed and reported separately.
The total asbestos content (calculated as weighted average) of the sample is reported as well.**

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TA Richland
Asbestos PLM

Analyst:	D. Petty	SOP Information	Method	Batch #	2324116 4
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA05851
Date:	11/20/12	Revision 2			
Sample ID MXD1M1AA					
Client ID J1R5W9					
Macroscopic examination					
Sample Description	<u>Multiple Layer</u> Sample: tar paper	<u>Multiple Layer</u> Sample: wood	TOTAL SAMPLE *		
Homogeneous	Y	Y	N		
Color	black	brown	black/brown		
% Visible Fibers	30	90	50		
PLM Analysis					
Asbestiform Minerals					
% Chrysotile	ND	ND	ND		
% Amosite	ND	ND	ND		
% Crocidolite	ND	ND	ND		
% Tremolite	ND	ND	ND		
% Actinolite	ND	ND	ND		
% Anthophyllite	ND	ND	ND		
% Total Asbestos	ND	ND	ND		
Other Materials					
% Cellulose	8	70	50		
% Glass Fibers	ND	ND	ND		
% Other fibers	ND	ND	ND		
% Non-fibrous	92	30	50		

Comments:

*** The sample contains 2 distinct homogeneous layers which were analyzed and reported separately.
The total asbestos content (calculated as weighted average) of the sample is reported as well.**

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

**TA Richland
Asbestos PLM**

Analyst:	D. Petty	SOP Information	Method	Batch #	2324116_5
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA05851
Date:	11/20/12	Revision 2			
Sample ID					
MXD1N1AA					
Client ID					
J1R5X01					
Macroscopic examination					
Sample Description	<u>Multiple Layer Sample: tar paper</u>	<u>Multiple Layer Sample: wood</u>	TOTAL SAMPLE *		
Homogeneous	Y	Y	N		
Color	black	brown	black/brown		
% Visible Fibers	70	95	80		
PLM Analysis					
Asbestos Minerals					
% Chrysotyle	ND	ND	ND		
% Amosite	ND	ND	ND		
% Crocidolite	ND	ND	ND		
% Tremolite	ND	ND	ND		
% Actinolite	ND	ND	ND		
% Anthophyllite	ND	ND	ND		
% Total Asbestos	ND	ND	ND		
Other Materials					
% Cellulose	37	80	80		
% Glass Fibers	2	ND	TRA		
% Other fibers	ND	ND	ND		
% Non-fibrous	61	20	20		

Comments:

*** The sample contains 2 distinct homogeneous layers which were analyzed and reported separately.
The total asbestos content (calculated as weighted average) of the sample is reported as well.**

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

**TA Richland
Asbestos PLM**

Analyst:	D. Petty	SOP Information	Method	Batch #	2324116_6
Analyst Signature:	<i>[Signature]</i>	RL-ASB-002	NIOSH 9002	SDG #	MA05851
Date:	11/20/12	Revision 2			
Sample ID MXD1P1AA					
Client ID J1R5X1					
Macroscopic examination					
Sample Description	<u>Multiple Layer</u> Sample: tar paper	<u>Multiple Layer</u> Sample: wood	TOTAL SAMPLE *		
Homogeneous	Y	Y	N		
Color	black	brown	black/brown		
% Visible Fibers	30	90	60		
PLM Analysis					
Asbestiform Minerals					
% Chrysotyle	ND	ND	ND		
% Amosite	ND	ND	ND		
% Crocidolite	ND	ND	ND		
% Tremolite	ND	ND	ND		
% Actinolite	ND	ND	ND		
% Anthophyllite	ND	ND	ND		
% Total Asbestos	ND	ND	ND		
Other Materials					
% Cellulose	20	67	60		
% Glass Fibers	ND	ND	ND		
% Other fibers	ND	ND	ND		
% Non-fibrous	80	33	40		

Comments:

*** The sample contains 2 distinct homogeneous layers which were analyzed and reported separately.**
The total asbestos content (calculated as weighted average) of the sample is reported as well.

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

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-006-380	Page 1 of 2
Collector James DeRoos	Company Contact Bill Rodgers	Telephone No. 206.251.7439		Project Coordinator KESSNER, JH		Price Code 9K	Data Turnaround 7 Days
Project Designation 100-N Area D4 - Other		Sampling Location 151-B Substation Building		SAF No. RC-006			
Ice Chest No. NA	Field Logbook No. EL-1516-21	COA RD4MXX2F00		Method of Shipment Hand Deliver			
Shipped To Test America Richland (IH)		Offsite Property No. NA		Bill of Lading/Air Bill No. NA			

POSSIBLE SAMPLE HAZARDS/REMARKS ASBESTOS Special Handling and/or Storage None JAK190429 MA05851 Due 11-26-12	Preservation	None																			
	Type of Container	G/P																			
	No. of Container(s)	1																			
	Volume	5g																			
		Asbestos-Bulk - NIOSH 9002																			

Sample No.	Matrix *	Sample Date	Sample Time																			
J1R5W2 MXD1E	OTHER	11-19-12	0951	X																		
J1R5W3 MXD1F	OTHER	11-19-12	1000	X																		
J1R5W4 MXD1G	OTHER	11-19-12	1005	X																		
J1R5W5 MXD1H	OTHER	11-19-12	1012	X																		
J1R5W6 MXD1J	OTHER	11-19-12	1020	X																		

CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS												Matrix *				
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		None 												S=Soil SE=Sediment SO=Solid SI=Sldge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue WI=Wipe L=Liquid V=Vegetation X=Other
James DeRoos		11-19-12 1300		Bill Rodgers		11-19-12 1300														
Bill Rodgers		11-19-12 1500		A. Freier		11-19-12 1500														
A. Freier		11-19-12 1520		J. Beck		11-19-12 1530														

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

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-006-380		Page 2 of 2	
Collector James DeRoos		Company Contact Bill Rodgers		Telephone No. 206.251.7439		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days	
Project Designation 100-N Area D4 - Other		Sampling Location 151-B Substation Building			SAF No. RC-006				
Ice Chest No. NA		Field Logbook No. EL-1516-21		COA RD4MXX2F00		Method of Shipment Hand Deliver			
Shipped To Test America Richland (IH)		Offsite Property No. NA			Bill of Lading/Air Bill No. NA				
POSSIBLE SAMPLE HAZARDS/REMARKS ASBESTOS				Preservation None					
Special Handling and/or Storage None				Type of Container G/P					
				No. of Container(s) 1					
				Volume 5g					
J2K190429 MA55851 Due 11-26-12				SAMPLE ANALYSIS		Asbestos-Bulk - NIOSH 9002			
Sample No.	Matrix *	Sample Date	Sample Time						
J1R5W7	mxDIK	11-19-12	1024	X					
J1R5W8	mxDIL	11-19-12	1026	X					
J1R5W9	mxDIM	11-19-12	1030	X					
J1R5X0	mxDIN	11-19-12	1038	X					
J1R5X1	mxDIP	11-19-12	1050	X					
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		None	
James DeRoos		11-19-12 1300		Bill Rodgers		11-19-12 1300			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Bill Rodgers		11-19-12 1500		A. Freier		11-19-12 1500			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
A. Freier		11-19-12 1520		TALR		11-19-12 1530			
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	



Matrix *
 S=Soil
 SE=Sediment
 SO=Solid
 SL=Sludge
 W=Water
 O=Oil
 A=Air
 DS=Drum Solids
 DL=Drum Liquids
 T=Tissue
 WI=Wipe
 L=Liquid
 V=Vegetation
 X=Other