

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 MA05835

SAF-RC-006

Rad only

Chem only

Rad & Chem

Complete

Partial

Waste Site(s): 105-B Wash Pad Annex

Asbestos PLM Cover Sheet

Sample Date: November 14, 2012
Receipt Date: November 14, 2012
Reporting Date: November 24, 2012
SDG #: MA05835
SAF#: RC-006
Data Deliverable: 7 Day Turn

Customer Sample Number	Laboratory Sample Number	Analytical Batch Identification	Sample Matrix
J1R5P1	MXCF8	2320088	OTHER
J1R5P2	MXCF9	2320088	OTHER
J1R5P3	MXCGA	2320088	OTHER
J1R5P4	MXCGC	2320088	OTHER
J1R5P5	MXCGD	2320088	OTHER
J1R5P6	MXCGE	2320088	OTHER
J1R5P7	MXCGF	2320088	OTHER
J1R5P8	MXCGG	2320088	OTHER
J1R5P9	MXCGH	2320088	OTHER
J1R5R0	MXCGJ	2320088	OTHER
J1R5R5	MXCGK	2320088	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 #	2320088
Analyst Signature:	<i>DP</i>	RL-ASB-002	NIOSH 9002	SDG #	MA05835
Date:	11/20/12	Revision 2			
Sample ID MXCF81AA					
Client ID J1R5P1					
Macroscopic examination					
Sample Description	<u>Multiple layer sample: sponge</u>	<u>Multiple layer sample: silver paper</u>	<u>Multiple layer sample: rubber</u>	TOTAL SAMPLE *	
Homogeneous	Y	N	Y	N	
Color	yellow	silver	black	multi	
% Visible Fibers	0	50	0	5	
PLM Analysis					
Asbestiform Minerals					
% Chrysotyle	ND	ND	ND	ND	
% Amosite	ND	ND	ND	ND	
% Crocidolite	ND	ND	ND	ND	
% Tremolite	ND	ND	ND	ND	
% Actinolite	ND	ND	ND	ND	
% Anthophyllite	ND	ND	ND	ND	
% Total Asbestos	ND	ND	ND	ND	
Other Materials					
% Cellulose	ND	63	ND	5	
% Glass Fibers	ND	ND	ND	ND	
% Other fibers	ND	ND	ND	ND	
% Non-fibrous	100	37	100	95	

Comments:

*** The sample contains 3 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 #	2320088_2
Analyst Signature:	<i>[Signature]</i>	RL-ASB-002	NIOSH 9002	SDG #	MA05835
Date:	11/20/12	Revision 2			
Macroscopic examination					
Sample ID	MXCF91AA	MXCGC1AA	MXCGD1AA	MXCGE1AA	MXCGF1AA
Client ID	J1R5P2'	J1R5P4'	J1R5P5'	J1R5P6'	J1R5P7'
Sample Description	tar paper	tar, tar paper and stones	tar, tar paper and stones	wall	wall
Homogeneous	Y	N	N	Y	Y
Color	black	black	black	beige	beige
% Visible Fibers	15	30	20	0	0
PLM Analysis					
Asbestiform Minerals					
% 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
% Total Asbestos	ND	ND	ND	ND	ND
Other Materials					
% Cellulose	TRA	ND	TRA	ND	ND
% Glass Fibers	5	20	3	ND	ND
% Other fibers	ND	ND	ND	ND	ND
% Non-fibrous	95	80	97	100	100

Comments:

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

TA Richland
Asbestos PLM

Analyst:	D. Petty	SOP Information	Method	Batch #	2320088_3
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA05835
Date:	11/20/12	Revision 2			
Sample ID: MXCGA1AA					
Client ID: J1R5P3					
Macroscopic examination					
Sample Description	<u>Multiple layer sample: sponge</u>	<u>Multiple layer sample: silver paper</u>	<u>Multiple layer sample: rubber</u>	TOTAL SAMPLE *	
Homogeneous	Y	N	Y	N	
Color	yellow	silver	black	multi	
% Visible Fibers	0	10	0	3	
PLM Analysis					
Asbestiform Minerals					
% Chrysotile	ND	ND	ND	ND	
% Amosite	ND	ND	ND	ND	
% Crocidolite	ND	ND	ND	ND	
% Tremolite	ND	ND	ND	ND	
% Actinolite	ND	ND	ND	ND	
% Anthophyllite	ND	ND	ND	ND	
% Total Asbestos	ND	ND	ND	ND	
Other Materials					
% Cellulose	TRA	47	ND	3	
% Glass Fibers	ND	ND	ND	ND	
% Other fibers	ND	ND	ND	ND	
% Non-fibrous	100	53	100	97	

Comments:

*** The sample contains 3 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 #	2320088_4
Analyst Signature:	<i>[Signature]</i>	RL-ASB-002	NIOSH 9002	SDG #	MA05835
Date:	4/20/12	Revision 2			
Sample ID					
MXCGG1AA					
Client ID					
J1R5P8					
Macroscopic examination					
Sample Description	<u>Multiple Layer</u> Sample: caulk	<u>Multiple Layer</u> Sample: wall	TOTAL SAMPLE *		
Homogeneous	Y	Y	N		
Color	white	gray	white/gray		
% Visible Fibers	0	0	0		
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	ND	ND	ND		
% Glass Fibers	ND	ND	ND		
% Other fibers	ND	ND	ND		
% Non-fibrous	100	100	100		

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 #	2320088 5
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA05835
Date:	11/20/12	Revision 2			
Sample ID					
MXCGH1AA					
Client ID					
J1R5P9*					
Macroscopic examination					
Sample Description	<u>Multiple Layer</u> Sample: caulk	<u>Multiple Layer</u> Sample: wall	TOTAL SAMPLE *		
Homogeneous	Y	Y	N		
Color	white	gray	white/gray		
% Visible Fibers	0	0	0		
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	ND	ND	ND		
% Glass Fibers	ND	ND	ND		
% Other fibers	ND	ND	ND		
% Non-fibrous	100	100	100		

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**

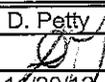
Analyst:	D. Petty	SOP Information	Method	Batch #	2320088 6
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA05835
Date:	11/20/12	Revision 2			
Sample ID MXCGJ1AA					
Client ID J1R5R0					
Macroscopic examination					
Sample Description	<u>Multiple Layer Sample: caulk</u>	<u>Multiple Layer Sample: wall</u>	TOTAL SAMPLE *		
Homogeneous	Y	Y	N		
Color	gray	gray	gray		
% Visible Fibers	0	0	0		
PLM Analysis					
Asbestos/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	ND	ND	ND		
% Glass Fibers	ND	ND	ND		
% Other fibers	ND	ND	ND		
% Non-fibrous	100	100	100		

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 #	2320088_7
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA05835
Date:	11/20/12	Revision 2			
Macroscopic examination					
Sample ID	MXCGK1AA				
Client ID	J1R5R5				
Sample Description	<u>Multiple Layer</u> Sample: caulk	<u>Multiple Layer</u> Sample: wall	TOTAL SAMPLE *		
Homogeneous	Y	Y	N		
Color	gray	white	white/gray		
% Visible Fibers	0	0	0		
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	ND	ND	ND		
% Glass Fibers	ND	ND	ND		
% Other fibers	ND	ND	ND		
% Non-fibrous	100	100	100		

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-006-379		Page 1 of 3			
Collector J 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 105-B Wash Pad Annex		SAF No. RC-006							
Ice Chest No. <i>NA</i>		Field Logbook No. EL-1516-21		COA RD4MXX2F00		Method of Shipment <i>Hand deliver</i>					
Shipped To Test America Richland (IH)		Offsite Property No. <i>NA</i>		Bill of Lading/Air Bill No. <i>NA</i>							
POSSIBLE SAMPLE HAZARDS/REMARKS <i>Possible RAD, Asbestos</i>				Preservation None							
Special Handling and/or Storage <i>None</i>				Type of Container G/P							
				No. of Container(s) 1							
				Volume 5g							
<i>J2K140448</i> <i>MA05835</i> <i>Due 11-21-12</i>				Asbestos-Bulk - NIOSH 9002							
											
Sample No.	Matrix *	Sample Date	Sample Time								
J1R5P1 <i>MXCF8</i>	OTHER	<i>11-14-12</i>	<i>1035</i>	<i>X</i>							
J1R5P2 <i>MXCF9</i>	OTHER	<i>11-14-12</i>	<i>1040</i>	<i>X</i>							
J1R5P3 <i>MXC6A</i>	OTHER	<i>11-14-12</i>	<i>1045</i>	<i>X</i>							
J1R5P4 <i>MXC6C</i>	OTHER	<i>11-14-12</i>	<i>1050</i>	<i>X</i>							
J1R5P5 <i>MXC6D</i>	OTHER	<i>11-14-12</i>	<i>1050</i>	<i>X</i>							
CHAIN OF POSSESSION		Sign/Print Names		SPECIAL INSTRUCTIONS						Matrix *	
Relinquished By/Removed From <i>J DeRoos</i>		Date/Time <i>1400</i>		Received By/Stored In <i>Bill Rodgers</i>		Date/Time <i>1400</i>		None			S=Soil SB=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
Relinquished By/Removed From <i>Bill Rodgers</i>		Date/Time <i>1445</i>		Received By/Stored In <i>A. Green A. Freier</i>		Date/Time <i>11-14-12</i>					
Relinquished By/Removed From <i>A. Green A. Freier</i>		Date/Time <i>1450</i>		Received By/Stored In <i>[Signature]</i>		Date/Time <i>11-14-12 1450</i>					
Relinquished By/Removed From <i>[Signature]</i>		Date/Time <i>1500</i>		Received By/Stored In <i>S. Beck</i>		Date/Time <i>11-14-12</i>					
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						

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-006-379		Page 2 of 3	
Collector J 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 105-B Wash Pad Annex		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 Possible RAD, Asbestos				Preservation None					
Special-Handling and/or Storage None				Type of Container G/P					
SAK140448				No. of Container(s) 1					
MA05835 Due 11-21-12				Volume 5g					
				Asbestos-Bulk - NIOSH 9002					
SAMPLE ANALYSIS									
Sample No.		Matrix *	Sample Date	Sample Time					
J1R5P6 MXCBE		OTHER	11-14-12	1110	X				
J1R5P7 MXCBF		OTHER	11-14-12	1122	X				
J1R5P8 MXCBG		OTHER	11-14-12	1124	X				
J1R5P9 MXCBH		OTHER	11-14-12	1125	X				
J1R5R0 MXCBJ		OTHER	11-14-12	1130	X				
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		None	
James Alan Johnson		11-14-12 1400		W.H. Rodgers		11-14-12			
W.H. Rodgers		11-14-12 1445		A. Freier		11-14-12			
A. Freier		11-14-12 1450		C. Bingham		11-14-12 1450			
C. Bingham		11-14-12 1500		S. Beck		11-14-12			
S. Beck									
Relinquished By/Removed From		Date/Time		Received By/Stored In		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 Wt=Wipe L=Liquid V=Vegetation X=Other	
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-006-379		Page 3 of 3	
Collector J 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		Sample Location 105-B Wash Pad Annex		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 Possible RAD, Asbestos			Preservation	None					
Special Handling and/or Storage None			Type of Container	G/P					
JAK140448			No. of Container(s)	1					
MA05835 Due 11-21-12			Volume	5g					
SAMPLE ANALYSIS			Asbestos-Bulk - NIOSH 9002						
Sample No.	Matrix *	Sample Date	Sample Time						
J1R5R1	OTHER								
J1R5R2	OTHER								
J1R5R3	OTHER								
J1R5R4	OTHER								
J1R5R5	OTHER	11-14-12	1150	X					
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS				Matrix *	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		None	
James K. DeRoos		11-14-12 1400		W.H. Rodgers		11-14-12		S=Soil	
W.H. Rodgers		11-14-12 1445		A. Freier		11-14-12		SE=Sediment	
A. Freier		11-14-12 1450		C. Green		11-14-12		SO=Solid	
C. Green		11-14-12 1500		S. Beck		11-14-12		SI=Sludge	
S. Beck		11-14-12						W = Water	
								O=Oil	
								A=Air	
								DS=Drum Solids	
								DL=Drum Liquids	
								T=Tissue	
								WI=Wipe	
								L=Liquid	
								V=Vegetation	
								X=Other	
LABORATORY SECTION		Received By		Title		Date/Time			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			

