0096421

SAF-RC-040
300 Area D4 Waste Characterization Sampling - Other Solid
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

No Distribution Required KW 5/16/11
INITIAL/DATE

RECEIVED
MAY 20 2011
EDMC

COMMENTS:

SDG MA01994 SAF-RC-040

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location/Waste Site: Building 320

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Asbestos PLM
Cover Sheet

RECEIVED

Sample Date: March 17, 2011
Receipt Date: March 18, 2011
Reporting Date: May 9, 2011
SDG #: MA01994
SAF#: RC-040
Data Deliverable: 7 Day Turn

Customer Sample Number	Laboratory Sample Number	Analytical Batch Identification	Sample Matrix
J1FJX4	MFVHA	1124250	OTHER SOLID
J1FJX5	MFVHP	1124250	OTHER SOLID
J1FJX6	MFVHX	1124250	OTHER SOLID
J1FJX7	MFVJC	1124250	OTHER SOLID
J1FJX8	MFVJG	1124250	OTHER SOLID
J1FJW9	MFVJT	1124250	OTHER SOLID
J1FJX0	MFVJX	1124250	OTHER SOLID
J1FJX1	MFVJ1	1124250	OTHER SOLID
J1FJX2	MFVKC	1124250	OTHER SOLID
J1FJX3	MFVKD	1124250	OTHER SOLID

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 #	**1124250**
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA01994
Date:	5/9/11	Revision 2			

Sample ID	**MFVHA1AA**				
Client ID	J1FJX4'				
Macroscopic examination					
Sample Description	**Multiple layer sample: paint**	**Multiple layer sample: paper**	**Multiple layer sample: powder**	**TOTAL SAMPLE ***	
Homogeneous	Y	Y	Y	N	
Color	white	beige	gray	white/beige/gray	
% Visible Fibers	0	90	5	10	
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	
% Anthophylite	ND	ND	ND	ND	
% Total Asbestos	**ND**	**ND**	**ND**	**ND**	
Other Materials					
% Cellulose	ND	94	ND	9	
% Glass Fibers	ND	ND	ND	ND	
% Other fibers	ND	ND	ND	ND	
% Non-fibrous	100	6	100	90	

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 #	1124250_2
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA01994
Date:	5/9/11	Revision 2			

Sample ID	**MFVHP1AA**				
Client ID	J1FJX5'				
Macroscopic examination					
Sample Description	**Multiple Layer Sample: Aluminum paper**	**Multiple Layer Sample: mineral wool**	**TOTAL SAMPLE ***		
Homogeneous	N	Y	N		
Color	silver/beige	yellow	silver/beige/yellow		
% Visible Fibers	90	100	95		
PLM Analysis					
Asbestiform Minerals					
% Chrysotyle	ND	ND	ND		
% Amosite	ND	ND	ND		
% Crocidolite	ND	ND	ND		
% Tremolite	ND	ND	ND		
% Actinolite	ND	ND	ND		
% Anthophylite	ND	ND	ND		
% Total Asbestos	**ND**	**ND**	**ND**		
Other Materials					
% Cellulose	83	ND	40		
% Glass Fibers	13	100	50		
% Other fibers	ND	ND	ND		
% Non-fibrous	4	ND	10		

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 #	**1124250_3**
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA01994
Date:	6/9/11	Revision 2			
Sample ID	**MFVHX1AA**	**MFVJC1AA**	**MFVJG1AA**		
Client ID	J1FJX6'	J1FJX7'	J1FJX8'		
Macroscopic examination					
Sample Description	Aluminum paper and mastic	Aluminum paper and mastic	Aluminum paper and mastic		
Homogeneous	N	N	N		
Color	silver/beige/yellow	silver/beige/yellow	silver/beige/yellow		
% Visible Fibers	90	90	90		
PLM Analysis					
Asbestiform Minerals					
% Chrysotyle	ND	ND	ND		
% Amosite	ND	ND	ND		
% Crocidolite	ND	ND	ND		
% Tremolite	ND	ND	ND		
% Actinolite	ND	ND	ND		
% Anthophylite	ND	ND	ND		
% Total Asbestos	**ND**	**ND**	**ND**		
Other Materials					
% Cellulose	7	13	13		
% Glass Fibers	83	80	80		
% Other fibers	ND	ND	ND		
% Non-fibrous	10	7	7		

Comments:

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

TA Richland
Asbestos PLM

Analyst:	D. Petty	SOP Information	Method	Batch #	1124250_4
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA01994
Date:	5/9/11	Revision 2			

Sample ID	MFVJT1AA				
Client ID	J1FJW9'				
Macroscopic examination					
Sample Description	Multiple layer sample: paint	Multiple layer sample: paper	Multiple layer sample: powder	TOTAL SAMPLE *	
Homogeneous	Y	Y	Y	N	
Color	white	beige	gray	white/beige/gray	
% Visible Fibers	0	100	5	6	
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	
% Anthophylite	ND	ND	ND	ND	
% Total Asbestos	**ND**	**ND**	**ND**	**ND**	
Other Materials					
% Cellulose	ND	93	ND	5	
% Glass Fibers	ND	3	ND	1	
% Other fibers	ND	ND	ND	ND	
% Non-fibrous	100	4	100	94	

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 #	1124250_5
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA01994
Date:	5/9/11	Revision 2			

Sample ID	**MFVJX1AA**				
Client ID	J1FJX0'				
Macroscopic examination					
Sample Description	**Multiple layer sample: paint**	**Multiple layer sample: paper**	**Multiple layer sample: powder**	**TOTAL SAMPLE ***	
Homogeneous	Y	Y	Y	N	
Color	white	beige	gray	white/beige/gray	
% Visible Fibers	0	100	2	3	
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	
% Anthophylite	ND	ND	ND	ND	
% Total Asbestos	**ND**	**ND**	**ND**	**ND**	
Other Materials					
% Cellulose	ND	100	ND	3	
% Glass Fibers	ND	ND	ND	ND	
% Other fibers	ND	ND	ND	ND	
% Non-fibrous	100	ND	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 #	1124250_6
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA01994
Date:	5/9/11	Revision 2			

Sample ID	**MFVJ11AA**				
Client ID	J1FJX1'				
Macroscopic examination					
Sample Description	Multiple layer sample: paint	Multiple layer sample: paper	Multiple layer sample: powder	TOTAL SAMPLE *	
Homogeneous	Y	Y	Y	N	
Color	white	beige	gray	white/beige/gray	
% Visible Fibers	0	100	2	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	
% Anthophylite	ND	ND	ND	ND	
% Total Asbestos	**ND**	**ND**	**ND**	**ND**	
Other Materials					
% Cellulose	TRA	100	ND	5	
% Glass Fibers	TRA	ND	ND	TRA	
% Other fibers	ND	ND	ND	ND	
% Non-fibrous	100	ND	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 #	1124250_7
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA01994
Date:	5/9/11	Revision 2			

Sample ID	**MFVKC1AA**				
Client ID	J1FJX2'				
Macroscopic examination					
Sample Description	**Multiple layer sample: paint**	**Multiple layer sample: paper**	**Multiple layer sample: powder**	**TOTAL SAMPLE ***	
Homogeneous	Y	Y	Y	N	
Color	white	beige/red	gray	white/beige/gray/red	
% Visible Fibers	0	100	2	3	
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	
% Anthophylite	ND	ND	ND	ND	
% Total Asbestos	**ND**	**ND**	**ND**	**ND**	
Other Materials					
% Cellulose	ND	90	ND	3	
% Glass Fibers	ND	ND	ND	TRA	
% Other fibers	ND	ND	ND	ND	
% Non-fibrous	100	10	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 #	1124250_7
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA01994
Date:	5/9/11	Revision 2			
Sample ID	**MFVKD1AA**				
Client ID	J1FJX3'				
Macroscopic examination					
Sample Description	Aluminum paper				
Homogeneous	N				
Color	silver/beige				
% Visible Fibers	60				
PLM Analysis					
Asbestiform Minerals					
% Chrysotyle	ND				
% Amosite	ND				
% Crocidolite	ND				
% Tremolite	ND				
% Actinolite	ND				
% Anthophylite	ND				
% Total Asbestos	**ND**				
Other Materials					
% Cellulose	53				
% Glass Fibers	ND				
% Other fibers	ND				
% Non-fibrous	47				

Comments:

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

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-040-568	Page 1 of 2

Collector Inions/Deroos	**Company Contact** Mike Stankovich	**Telephone No.** 2062517439	**Project Coordinator** KESSNER, JH
Price Code 9K	**Data Turnaround** 7 Days		
Project Designation 300 Area D4 Waste Characterization Sampling - Other Solid	**Sampling Location** Building 320		**SAF No.** RC-040
Ice Chest No. WCH0800302	**Field Logbook No.** EL-1518-18	**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

Preservation	None											
Type of Container	G/P											
No. of Container(s)	1											
Volume	60g											
SAMPLE ANALYSIS	Asbestos-Bulk - NIOSH 9002											

J1C180455

Sample No.	Matrix *	Sample Date	Sample Time										
J1FJX4	OTHER SOLID	3-17-11	1258	X			MFVHA						
J1FJX5	OTHER SOLID	↓	1300	X			MFVHP						
J1FJX6	OTHER SOLID		1302	X			MFVHX						
J1FJX7	OTHER SOLID		1305	X			MFVJC						
J1FJX8	OTHER SOLID	↓	1308	X			MFVJG						

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
James Deroos	3-17-11 1500	MS Stankovich	3/17/11
MS Stankovich	3/18/11 0900	Cameron Krapa	3-18-11 0900

SPECIAL INSTRUCTIONS

None

J1C180455. TAR
SDG MA01994
Due. 3.25.11
WCH

REVIEWED 3/18/11

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-040-567	Page 2 of 2

Collector Inions/Deroos	**Company Contact** Mike Stankovich	**Telephone No.** 2062517439	**Project Coordinator** KESSNER, JH
Project Designation 300 Area D4 Waste Characterization Sampling - Other Solid	**Sampling Location** Building 320		**SAF No.** RC-040
Ice Chest No. WCH0800302	**Field Logbook No.** EL-1518-18	**COA** RD4MXX2F00	**Method of Shipment** Hand Deliver
Shipped To Test America Richland (IH)	**Offsite Property No.** NA		**Bill of Lading/Air Bill No.** NA

Price Code 9K **Data Turnaround** 7 Days

POSSIBLE SAMPLE HAZARDS/REMARKS
Asbestos

Special Handling and/or Storage
None

Preservation	None									
Type of Container	G/P									
No. of Container(s)	1									
Volume	60g									
SAMPLE ANALYSIS	Asbestos-Bulk - NIOSH 9002									

J1C180455

Sample No.	Matrix *	Sample Date	Sample Time								
J1FJW9	OTHER SOLID	3-17-11	1241	X			MFVJT				
J1FJX0	OTHER SOLID	↓	1243	X			MFVJX				
J1FJX1	OTHER SOLID	↓	1251	X			MFVJ1				
J1FJX2	OTHER SOLID	↓	1254	X			MFVKC				
J1FJX3	OTHER SOLID	↓	1256	X			MFVKD				

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
James DeRoos [signature]	3-17-11 1500	[signature] MStankovich	3/17/11 1500
[signature] MStankovich	3/18/11 0900	[signature] TALR Cameron Kropa	3-18-11 0900

SPECIAL INSTRUCTIONS
None

J1C180455
JDG MLO 1994
Due: 3-25-11
WCH

REVIEWED BY [signature] DATE 3/18/11

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

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

WCH-EE-011