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 MA05852 SAF-RC-006

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Waste Site(s): 151-B Substation Building

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

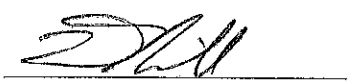
Asbestos PLM
Cover Sheet

Sample Date: November 19, 2012
Receipt Date: November 19, 2012
Reporting Date: November 24, 2012
SDG #: MA05852
SAF#: RC-006
Data Deliverable: 7 Day Turn

Customer Sample Number	Laboratory Sample Number	Analytical Batch Identification	Sample Matrix
J1R327	MXD1Q	2324115	OTHER
J1R328	MXD1R	2324115	OTHER
J1R329	MXD1T	2324115	OTHER
J1R330	MXD1V	2324115	OTHER
J1R331	MXD1W	2324115	OTHER
J1R332	MXD1X	2324115	OTHER
J1R333	MXD10	2324115	OTHER
J1R334	MXD11	2324115	OTHER
J1R335	MXD12	2324115	OTHER
J1R336	MXD13	2324115	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 #	2324115
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA05852
Date:	11/21/12	Revision 2			
Sample ID	MXD1Q1AA				
Client ID	J1R327'				
Macroscopic examination					
Sample Description	**Multiple layer sample: mineral wool**	**Multiple layer sample: tar**	**Multiple layer sample: fiber mesh**	**TOTAL SAMPLE ***	
Homogeneous	Y	Y	Y	N	
Color	yellow	black	black	yellow/black	
% Visible Fibers	100	10	100	80	
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	3	ND	TRA	
% Glass Fibers	100	10	97	80	
% Other fibers	ND	ND	ND	ND	
% Non-fibrous	ND	87	3	20	

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 #	2324115_2
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA05852
Date:	11/21/12	Revision 2			
Sample ID	**MXD1R1AA**	**MXD1V1AA**	**MXD1X1AA**	**MXD101AA**	**MXD111AA**
Client ID	J1R328'	J1R330'	J1R332'	J1R333'	J1R334'
Macroscopic examination					
Sample Description	plastic	plastic	plastic	caulk	caulk
Homogeneous	Y	Y	Y	Y	Y
Color	white	white	white	blue/white	blue/white
% Visible Fibers	10	20	20	0	0
PLM Analysis					
Asbestiform Minerals					
% Chrysotyle	ND	ND	ND	ND	5
% Amosite	ND	ND	ND	ND	ND
% Crocidolite	ND	ND	ND	ND	ND
% Tremolite	ND	ND	ND	ND	ND
% Actinolite	ND	ND	ND	ND	ND
% Anthophylite	ND	ND	ND	ND	ND
% Total Asbestos	**ND**	**ND**	**ND**	**ND**	**5**
Other Materials					
% Cellulose	ND	ND	ND	TRA	TRA
% Glass Fibers	10	20	20	ND	ND
% Other fibers	ND	ND	ND	ND	ND
% Non-fibrous	90	80	80	100	95

Comments:

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

TA Richland
Asbestos PLM

Analyst:	D. Petty	SOP Information	Method	Batch #	2324115_3
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA05852
Date:	11/21/12	Revision 2			
Sample ID	**MXD1T1AA**				
Client ID	J1R329'				
Macroscopic examination					
Sample Description	**Multiple layer sample: mineral wool**	**Multiple layer sample: tar**	**Multiple layer sample: fiber mesh**	**TOTAL SAMPLE ***	
Homogeneous	Y	Y	Y	N	
Color	yellow	black	black	yellow/black	
% Visible Fibers	100	10	100	60	
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	10	2	5	
% Glass Fibers	100	ND	97	55	
% Other fibers	ND	ND	ND	ND	
% Non-fibrous	ND	90	1	40	

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 #	2324115_4
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA05852
Date:	11/21/12	Revision 2			
Sample ID	**MXD1W1AA**				
Client ID	J1R331				
Macroscopic examination					
Sample Description	**Multiple layer sample: mineral wool**	**Multiple layer sample: tar**	**Multiple layer sample: fiber mesh**	**TOTAL SAMPLE ***	
Homogeneous	Y	Y	Y	N	
Color	yellow	black	black	yellow/black	
% Visible Fibers	100	10	100	90	
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	17	ND	10	
% Glass Fibers	100	10	93	85	
% Other fibers	ND	ND	ND	ND	
% Non-fibrous	ND	73	7	5	

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 #	2324115_5
Analyst Signature:		RL-ASB-002	NIOSH 9002	SDG #	MA05852
Date:	11/21/12	Revision 2			
Sample ID	**MXD121AA**	**MXD131AA**			
Client ID	J1R335'	J1R336'			
Macroscopic examination					
Sample Description	caulk	insulation			
Homogeneous	Y	Y			
Color	white	brown			
% Visible Fibers	0	20			
PLM Analysis					
Asbestiform Minerals					
% Chrysotyle	ND	60			
% Amosite	ND	ND			
% Crocidolite	ND	ND			
% Tremolite	ND	ND			
% Actinolite	ND	ND			
% Anthophylite	ND	ND			
% Total Asbestos	**ND**	**60**			
Other Materials					
% Cellulose	ND	ND			
% Glass Fibers	ND	ND			
% Other fibers	ND	ND			
% Non-fibrous	100	40			

Comments:

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

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-006-368	Page 1 of 8 WHK 11-19-12
Collector James DeRoos	**Company Contact** Bill Rodgers	**Telephone No.** 206.251.7439	**Project Coordinator** KESSNER, JH	**Price Code** 9K
Project Designation 100-N Area D4 - Other	**Sampling Location** 151-B Substation Building		**SAF No.** RC-006	**Data Turnaround** 7 Days
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.** ~~See OSPC~~ AB 11-19-12 NA	

POSSIBLE SAMPLE HAZARDS/REMARKS

ASBESTOS

Special Handling and/or Storage

None

J2K190433

MAOS852

Due 11-26-12

J2K190433

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							
J1R327 MXD1Q	OTHER	11-19-12	0905	X						
J1R328 MXD1R	OTHER	11-19-12	0907	X						
J1R329 MXD1T	OTHER	11-19-12	0910	X						
J1R330 MXD1V	OTHER	11-19-12	0913	X						
J1R331 MXD1W	OTHER	11-19-12	0915	X						

CHAIN OF POSSESSION	Sign/Print Names	
Relinquished By/Removed From: James DeRoos	Date/Time: 11-19-12 1300	Received By/Stored In: WH Rodgers	Date/Time: 11-19-12 1300
Relinquished By/Removed From: WH Rodgers	Date/Time: 11-19-12 1500	Received By/Stored In: A. Freier	Date/Time: 11-19-12 1500
Relinquished By/Removed From: A. Freier	Date/Time: 11-19-12 1520	Received By/Stored In: J. Bock TALR	Date/Time: 11-19-12 1520
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

None

REVIEWED BY CMB DATE 11-19-12

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

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-006-368	Page 2 of 2 WHR 11-19-12
Collector James DeRoos	**Company Contact** Bill Rodgers	**Telephone No.** 206.251.7439	**Project Coordinator** KESSNER, JH	**Price Code** 9K
Project Designation 100-N Area D4 - Other	**Sampling Location** 151-B Substation Building		**SAF No.** RC-006	**Data Turnaround** 7 Days
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.** ~~See OSPC~~ AJ 11-19-12 NA	

POSSIBLE SAMPLE HAZARDS/REMARKS
ASBESTOS

Special Handling and/or Storage
None

J2L190433

MA055852
Due 11-26-12

SAMPLE ANALYSIS

	Preservation	Type of Container	No. of Container(s)	Volume	Asbestos-Bulk - NIOSH 9002
	None	G/P	1	5g	

Sample No.	Matrix *	Sample Date	Sample Time	
J1R332 MXD1X	OTHER	11-19-12	0917	X
J1R333 MXD10	OTHER	11-19-12	0926	X
J1R334 MXD11	OTHER	11-19-12	0929	X
J1R335 MXD12	OTHER	11-19-12	0931	X
J1R336 MXD13	OTHER	11-19-12	0934	X

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
James R DeRoos	11-19-12 0300	WH Rodgers WHR	11-19-12 1300
WH Rodgers WHR	11-19-12 1501	A. Freier A. Freier	11-19-12 1500
WCH A. Freier A. Freier	11-19-12 1520	J. Bock J. Bock THLE	11-19-12 1520

SPECIAL INSTRUCTIONS
None

REVIEWED BY CMWB DATE 11-19-12

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=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