



**EMSL Analytical, Inc.**

**Asbestos Data Package**

**EMSL Order ID 041528269**

**Weston Solutions, Inc.**

**Case #: 335**

**Prepared By: EMSL Special Projects Group**

**Date: October 9, 2015**



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# 1. Case Narrative



October 8, 2015

Smita Sumbaly  
Weston Solutions, Inc.  
1090 King Georges Post Road, Suite 201  
Edison, NJ 08837  
732-585-4400  
[s.sumbaly@westonsolutions.com](mailto:s.sumbaly@westonsolutions.com)

**Re: Narrative PLM NYS ELAP 198.1; EMSL Order: 041528269; RFP #335**

Dear Smita:

On September 18, 2015, EMSL Analytical, Inc. in Cinnaminson, NJ received ten bulk samples for asbestos content analysis via PLM NYS ELAP 198.1. The samples were received via FedEx and were logged in following normal lab procedures. The samples were received under Chain of Custody No. 2-091715-142552-0003 from Weston Solutions, Inc.

**PLM NYS ELAP 198.1**

All samples were analyzed via Polarized Light Microscopy (PLM) using the procedures from the PLM NYS ELAP 198.1 method. All data was reported on a percent asbestos basis with a limit of quantification for the PLM NYS ELAP 198.1 method (stratified point count/400 point count) as <1%. Per this method, any sample found to contain asbestos was subject to a stratified point count.

**QC Performed**

The Quality Control (QC) and the equipment calibration were performed in compliance with EMSL's Quality Assurance Manual.

**I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.**

**Benjamin Ellis**  
*Asbestos Laboratory Manager*  
*EMSL Cinnaminson, NJ*





## 2. Tabulated Sample Results

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
 Phone/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.EMSL.com> [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order: 041528269  
 CustomerID: RFW53  
 CustomerPO:  
 ProjectID:

Attn: **Smita Sumbaly**  
**Weston Solutions (King Georges Post)**  
**1090 King Georges Post Road**  
**Suite 201**  
**Edison, NJ 08837**

Phone: (732) 585-4400  
 Fax:  
 Received: 09/18/15 5:40 PM  
 Analysis Date: 9/30/2015  
 Collected: 9/17/2015

Project: RFP #335 / 2-091715-142552-0003

**Test Report:Asbestos Analysis of Bulk Material**

Test	Analyzed Date	Color	Non Asbestos		Asbestos
			Fibrous	Non-Fibrous	
<b>Sample ID</b> P001-BA-022-01 041528269-0001		<b>Description</b>	P001-BA-022		
		<b>Homogeneity</b>	Homogeneous		
<b>PLM NYS 198.1 Friable</b>	9/30/2015	Gray/Tan		50.00% Non-fibrous (other)	<b>50.00% Chrysotile</b>
<b>PLM NYS 198.6 VCM</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b>					<b>Not Analyzed</b>
<b>TEM NYS 198.4 NOB</b>					<b>Not Analyzed</b>
<b>Sample ID</b> P001-BA-023-01 041528269-0002		<b>Description</b>	P001-BA-023		
		<b>Homogeneity</b>	Homogeneous		
<b>PLM NYS 198.1 Friable</b>	9/30/2015	Gray		60.00% Non-fibrous (other)	<b>40.00% Chrysotile</b>
<b>PLM NYS 198.6 VCM</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b>					<b>Not Analyzed</b>
<b>TEM NYS 198.4 NOB</b>					<b>Not Analyzed</b>
<b>Sample ID</b> P001-BA-024-01 041528269-0003		<b>Description</b>	P001-BA-024		
		<b>Homogeneity</b>	Homogeneous		
<b>PLM NYS 198.1 Friable</b>	9/30/2015	Gray		42.90% Non-fibrous (other)	<b>57.10% Chrysotile</b>
<b>PLM NYS 198.6 VCM</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b>					<b>Not Analyzed</b>
<b>TEM NYS 198.4 NOB</b>					<b>Not Analyzed</b>
<b>Sample ID</b> P001-BA-025-01 041528269-0004		<b>Description</b>	P001-BA-025		
		<b>Homogeneity</b>	Homogeneous		
<b>PLM NYS 198.1 Friable</b>	9/30/2015	Gray		42.90% Non-fibrous (other)	<b>57.10% Chrysotile</b>
<b>PLM NYS 198.6 VCM</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b>					<b>Not Analyzed</b>
<b>TEM NYS 198.4 NOB</b>					<b>Not Analyzed</b>
<b>Sample ID</b> P001-BA-026-01 041528269-0005		<b>Description</b>	P001-BA-026		
		<b>Homogeneity</b>	Homogeneous		
<b>PLM NYS 198.1 Friable</b>	9/30/2015	Gray		33.30% Non-fibrous (other)	<b>66.70% Chrysotile</b>
<b>PLM NYS 198.6 VCM</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b>					<b>Not Analyzed</b>
<b>TEM NYS 198.4 NOB</b>					<b>Not Analyzed</b>



**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
Phone/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.EMSL.com> [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order: 041528269  
CustomerID: RFWE53  
CustomerPO:  
ProjectID:

**Test Report:Asbestos Analysis of Bulk Material**

Test	Color	Non Asbestos		Asbestos
		Fibrous	Non-Fibrous	
<b>Sample ID</b> P001-BA-027-01 041528269-0006	<b>Description</b> <b>Homogeneity</b>	P001-BA-027 Homogeneous		
PLM NYS 198.1 Friable	9/30/2015 Gray/White	10.00% Cellulose	45.60% Non-fibrous (other)	<b>44.40% Chrysotile</b>
PLM NYS 198.6 VCM				Not Analyzed
<del>PLM NYS 198.6 NOB</del>				<del>Not Analyzed</del>
TEM NYS 198.4 NOB				Not Analyzed
<b>Sample ID</b> P001-BA-028-01 041528269-0007	<b>Description</b> <b>Homogeneity</b>	P001-BA-028 Homogeneous		
PLM NYS 198.1 Friable	9/30/2015 Gray		42.90% Non-fibrous (other)	<b>57.10% Chrysotile</b>
PLM NYS 198.6 VCM				Not Analyzed
PLM NYS 198.6 NOB				Not Analyzed
TEM NYS 198.4 NOB				Not Analyzed
<b>Sample ID</b> P001-BA-029-01 041528269-0008	<b>Description</b> <b>Homogeneity</b>	P001-BA-029 Homogeneous		
PLM NYS 198.1 Friable	9/30/2015 Tan	20.00% Cellulose	49.20% Non-fibrous (other)	<b>30.80% Chrysotile</b>
PLM NYS 198.6 VCM				Not Analyzed
PLM NYS 198.6 NOB				Not Analyzed
TEM NYS 198.4 NOB				Not Analyzed
<b>Sample ID</b> P001-BA-030-01 041528269-0009	<b>Description</b> <b>Homogeneity</b>	P001-BA-030 Homogeneous		
PLM NYS 198.1 Friable	9/30/2015 Gray		50.00% Non-fibrous (other)	<b>50.00% Chrysotile</b>
PLM NYS 198.6 VCM				Not Analyzed
PLM NYS 198.6 NOB				Not Analyzed
TEM NYS 198.4 NOB				Not Analyzed
<b>Sample ID</b> P001-BA-031-01 041528269-0010	<b>Description</b> <b>Homogeneity</b>	P001-BA-031 Homogeneous		
PLM NYS 198.1 Friable	9/30/2015 Gray		42.90% Non-fibrous (other)	<b>57.10% Chrysotile</b>
PLM NYS 198.6 VCM				Not Analyzed
PLM NYS 198.6 NOB				Not Analyzed
TEM NYS 198.4 NOB				Not Analyzed



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EMSL Order: 041528269  
CustomerID: RFWE53  
CustomerPO:  
ProjectID:

**Test Report:Asbestos Analysis of Bulk Material**

Test	Color	Non Asbestos		Asbestos
		Fibrous	Non-Fibrous	

Analyst(s)  
Amy Johnson

  
Benjamin Ellis, Laboratory Manager  
or other approved signatory

NOB = Non Friable Organically Bound    N/A = Not Applicable    VCM = Vermiculite Containing Material

-In New York State, TEM is currently the only method that can be used to determine if NOB materials can be considered or treated as non-asbestos containing.  
 All samples examined for the presence of vermiculite when analyzed via NYS 198.1.  
 -NYS Guidelines for Vermiculite containing samples are available at [http://www.wadsworth.org/abcert/elapcert/forms/VermiculiteInterimGuidance\\_Rev070913.pdf](http://www.wadsworth.org/abcert/elapcert/forms/VermiculiteInterimGuidance_Rev070913.pdf)  
 EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL.  
 EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples were received in good condition unless otherwise noted.  
 This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This report may contain data that is not covered by the NVLAP accreditation.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NYS ELAP 10872, PA ID# 68-00367



### 3. Worksheets/ Bench Sheets

## Asbestos Analysis Of Bulk Materials using Polarized Light Microscopy With Point Counting

**Special Instructions:**

Due Date 10/02/2015

Email Results Only! THIS LOCATION DOES EPWORK ONLY! MUST HAVE RFP#. For Bulks w/ layers, email Smita Sumbaly and give her # of layers and final sample count: S.Sumbaly@westonsolutions.com

Sample Number	<b>041528269-0001</b>			Analyst	ajohnson				
Customer Sample No.	P001-BA-022-01			Analysis Date	9/30/2015				
Matrix	Bulk			Status	Positive Result				
Sample Colors	Gray/Tan		Homogeneity	Homogeneous		% Asbestos	50.00		
Treatment	Teased		Stereo Asb. Est.			% Non-Asb. Fibrous	0		
Texture	Fibrous		Temperature (C)	19.7		% Non-fibrous	50.00		
Comments:									
Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Chrysotile	50.00	1.548	1.553	Wavy	+	No	Low: <=0.010	Colorless	Parallel
Point counts:	SlideID	Non-asbestos	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	
	01	2	1	0	0	0	0	0	
	02	1	1	0	0	0	0	0	
	03	0	1	0	0	0	0	0	
	04	1	1	0	0	0	0	0	

Sample Number	<b>041528269-0002</b>			Analyst	ajohnson				
Customer Sample No.	P001-BA-023-01			Analysis Date	9/30/2015				
Matrix	Bulk			Status	Positive Result				
Sample Colors	Gray		Homogeneity	Homogeneous		% Asbestos	40.00		
Treatment	Teased		Stereo Asb. Est.			% Non-Asb. Fibrous	0		
Texture	Fibrous		Temperature (C)	19.7		% Non-fibrous	60.00		
Comments:									
Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Chrysotile	40.00	1.551	1.556	Wavy	+	No	Low: <=0.010	Colorless	Parallel
Point counts:	SlideID	Non-asbestos	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	
	01	2	1	0	0	0	0	0	
	02	1	1	0	0	0	0	0	
	03	1	1	0	0	0	0	0	
	04	2	1	0	0	0	0	0	

Sample Number	<b>041528269-0003</b>			Analyst	ajohnson				
Customer Sample No.	P001-BA-024-01			Analysis Date	9/30/2015				
Matrix	Bulk			Status	Positive Result				
Sample Colors	Gray		Homogeneity	Homogeneous		% Asbestos	57.10		
Treatment	Teased		Stereo Asb. Est.			% Non-Asb. Fibrous	0		
Texture	Fibrous		Temperature (C)	19.7		% Non-fibrous	42.90		
Comments:									
Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Chrysotile	57.10	1.552	1.557	Wavy	+	No	Low: <=0.010	Colorless	Parallel
Point counts:	SlideID	Non-asbestos	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	
	01	0	1	0	0	0	0	0	
	02	1	1	0	0	0	0	0	
	03	1	1	0	0	0	0	0	
	04	1	1	0	0	0	0	0	

Sample Number	<b>041528269-0004</b>			Analyst	ajohnson		
Customer Sample No.	P001-BA-025-01			Analysis Date	9/30/2015		
Matrix	Bulk			Status	Positive Result		

## Asbestos Analysis Of Bulk Materials using Polarized Light Microscopy With Point Counting

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Due Date 10/02/2015

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Sample Colors	Gray	Homogeneity	Homogeneous	% Asbestos	57.10				
Treatment	Teased	Stereo Asb. Est.		% Non-Asb. Fibrous	0				
Texture	Fibrous	Temperature (C)	19.7	% Non-fibrous	42.90				
Comments:									
Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Chrysotile	57.10	1.550	1.555	Wavy	+	No	Low: <=0.010	Colorless	Parallel
Point counts:	SlideID	Non-asbestos	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	
	01	2	1	0	0	0	0	0	
	02	0	1	0	0	0	0	0	
	03	1	1	0	0	0	0	0	
	04	0	1	0	0	0	0	0	

Sample Number	<b>041528269-0005</b>	Analyst	ajohnson						
Customer Sample No.	P001-BA-026-01	Analysis Date	9/30/2015						
Matrix	Bulk	Status	Positive Result						
Sample Colors	Gray	Homogeneity	Homogeneous	% Asbestos	66.70				
Treatment	Teased	Stereo Asb. Est.		% Non-Asb. Fibrous	0				
Texture	Fibrous	Temperature (C)	19.7	% Non-fibrous	33.30				
Comments:									
Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Chrysotile	66.70	1.550	1.556	Wavy	+	No	Low: <=0.010	Colorless	Parallel
Point counts:	SlideID	Non-asbestos	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	
	01	1	1	0	0	0	0	0	
	02	0	1	0	0	0	0	0	
	03	1	1	0	0	0	0	0	
	04	0	1	0	0	0	0	0	

Sample Number	<b>041528269-0006</b>	Analyst	ajohnson						
Customer Sample No.	P001-BA-027-01	Analysis Date	9/30/2015						
Matrix	Bulk	Status	Positive Result						
Sample Colors	Gray/White	Homogeneity	Homogeneous	% Asbestos	44.40				
Treatment	Teased	Stereo Asb. Est.		% Non-Asb. Fibrous	10				
Texture	Fibrous	Temperature (C)	19.7	% Non-fibrous	45.60				
Comments:									
Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Chrysotile	44.40	1.553	1.558	Wavy	+	No	Low: <=0.010	Colorless	Parallel
Cellulose	10			Ribbon-Like					
Point counts:	SlideID	Non-asbestos	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	
	01	2	1	0	0	0	0	0	
	02	1	1	0	0	0	0	0	
	03	1	1	0	0	0	0	0	
	04	1	1	0	0	0	0	0	

Sample Number	<b>041528269-0007</b>	Analyst	ajohnson						
Customer Sample No.	P001-BA-028-01	Analysis Date	9/30/2015						
Matrix	Bulk	Status	Positive Result						
Sample Colors	Gray	Homogeneity	Homogeneous	% Asbestos	57.10				
Treatment	Teased	Stereo Asb. Est.		% Non-Asb. Fibrous	0				
Texture	Fibrous	Temperature (C)	19.7	% Non-fibrous	42.90				
Comments:									
Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Chrysotile	57.10	1.549	1.554	Wavy	+	No	Low: <=0.010	Colorless	Parallel

## Asbestos Analysis Of Bulk Materials using Polarized Light Microscopy With Point Counting

Special Instructions:

Due Date 10/02/2015

Email Results Only! THIS LOCATION DOES EPWORK ONLY! MUST HAVE RFP#. For Bulks w/ layers, email Smita Sumbaly and give her # of layers and final sample count: S.Sumbaly@westonsolutions.com

Point counts:	SlideID	Non-asbestos	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite
	01	1	1	0	0	0	0	0
	02	1	1	0	0	0	0	0
	03	0	1	0	0	0	0	0
	04	1	1	0	0	0	0	0

Sample Number	<b>041528269-0008</b>	Analyst	ajohnson
Customer Sample No.	P001-BA-029-01	Analysis Date	9/30/2015
Matrix	Bulk	Status	Positive Result

Sample Colors	Tan	Homogeneity	Homogeneous	% Asbestos	30.80
Treatment	Teased	Stereo Asb. Est.		% Non-Asb. Fibrous	20
Texture	Fibrous	Temperature (C)	19.7	% Non-fibrous	49.20

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Chrysotile	30.80	1.550	1.554	Wavy	+	No	Low: <=0.010	Colorless	Parallel
Cellulose	20			Ribbon-Like					

Point counts:	SlideID	Non-asbestos	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite
	01	1	1	0	0	0	0	0
	02	3	1	0	0	0	0	0
	03	2	1	0	0	0	0	0
	04	3	1	0	0	0	0	0

Sample Number	<b>041528269-0009</b>	Analyst	ajohnson
Customer Sample No.	P001-BA-030-01	Analysis Date	9/30/2015
Matrix	Bulk	Status	Positive Result

Sample Colors	Gray	Homogeneity	Homogeneous	% Asbestos	50.00
Treatment	Teased	Stereo Asb. Est.		% Non-Asb. Fibrous	0
Texture	Fibrous	Temperature (C)	19.7	% Non-fibrous	50.00

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Chrysotile	50.00	1.550	1.555	Wavy	+	No	Low: <=0.010	Colorless	Parallel

Point counts:	SlideID	Non-asbestos	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite
	01	1	1	0	0	0	0	0
	02	2	1	0	0	0	0	0
	03	0	1	0	0	0	0	0
	04	1	1	0	0	0	0	0

Sample Number	<b>041528269-0010</b>	Analyst	ajohnson
Customer Sample No.	P001-BA-031-01	Analysis Date	9/30/2015
Matrix	Bulk	Status	Positive Result

Sample Colors	Gray	Homogeneity	Homogeneous	% Asbestos	57.10
Treatment	Teased	Stereo Asb. Est.		% Non-Asb. Fibrous	0
Texture	Fibrous	Temperature (C)	19.7	% Non-fibrous	42.90

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Chrysotile	57.10	1.551	1.556	Wavy	+	No	Low: <=0.010	Colorless	Parallel

Point counts:	SlideID	Non-asbestos	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite
	01	1	1	0	0	0	0	0
	02	1	1	0	0	0	0	0
	03	0	1	0	0	0	0	0
	04	1	1	0	0	0	0	0

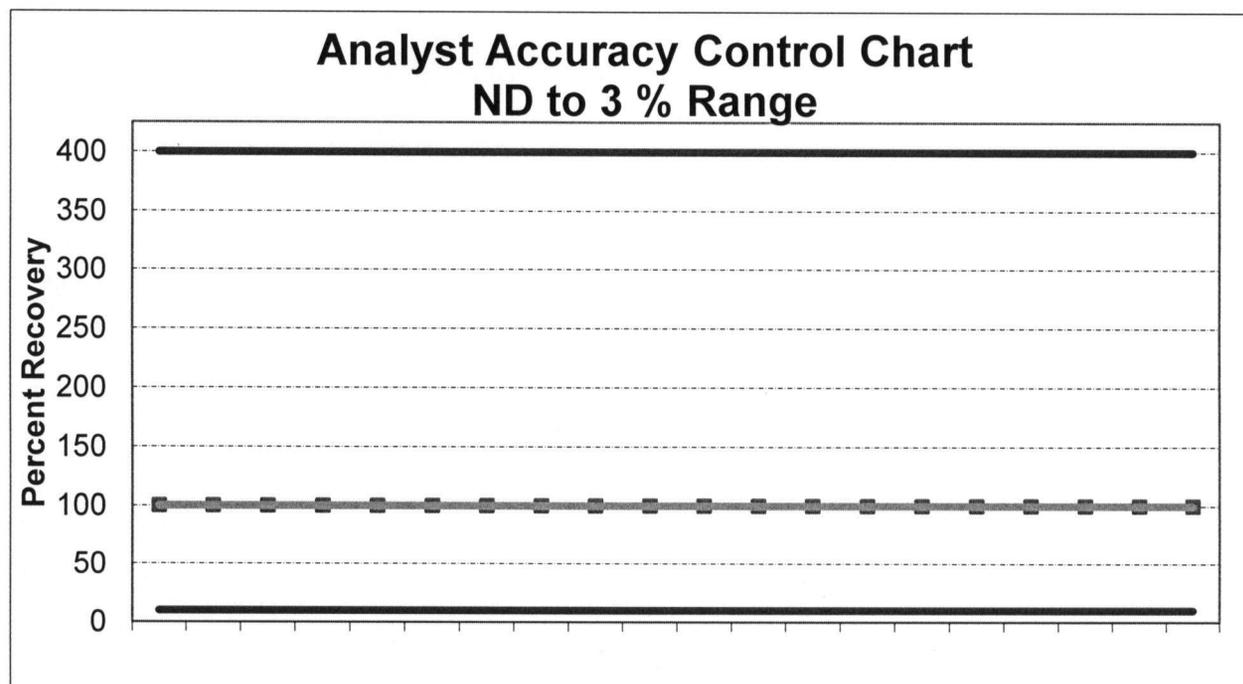
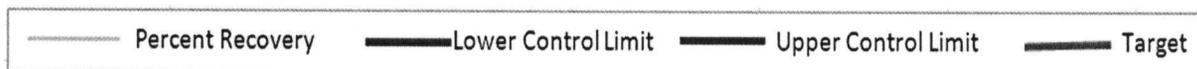


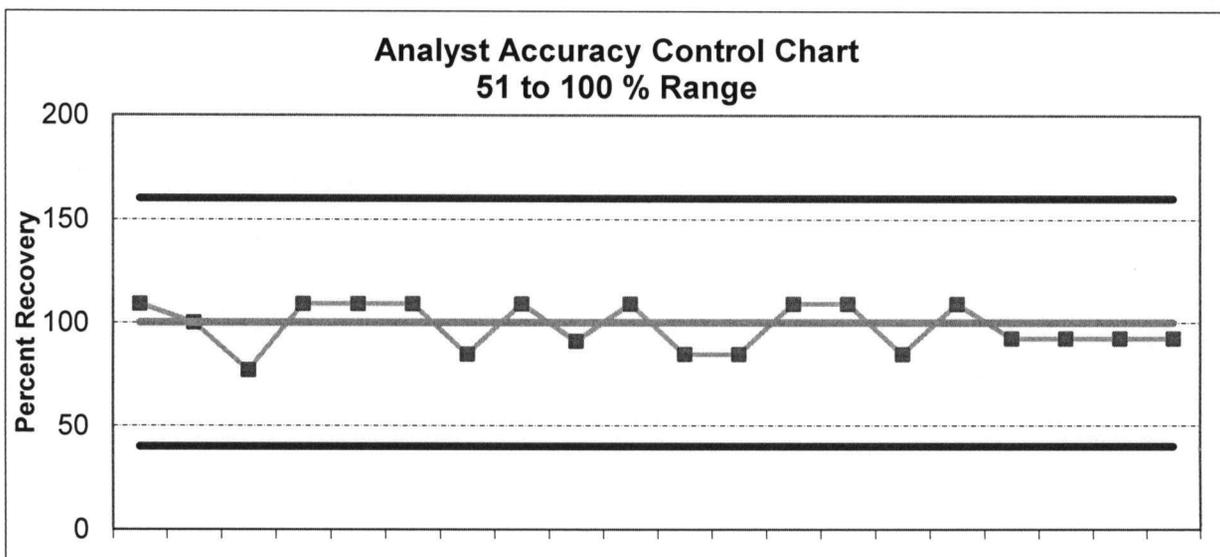
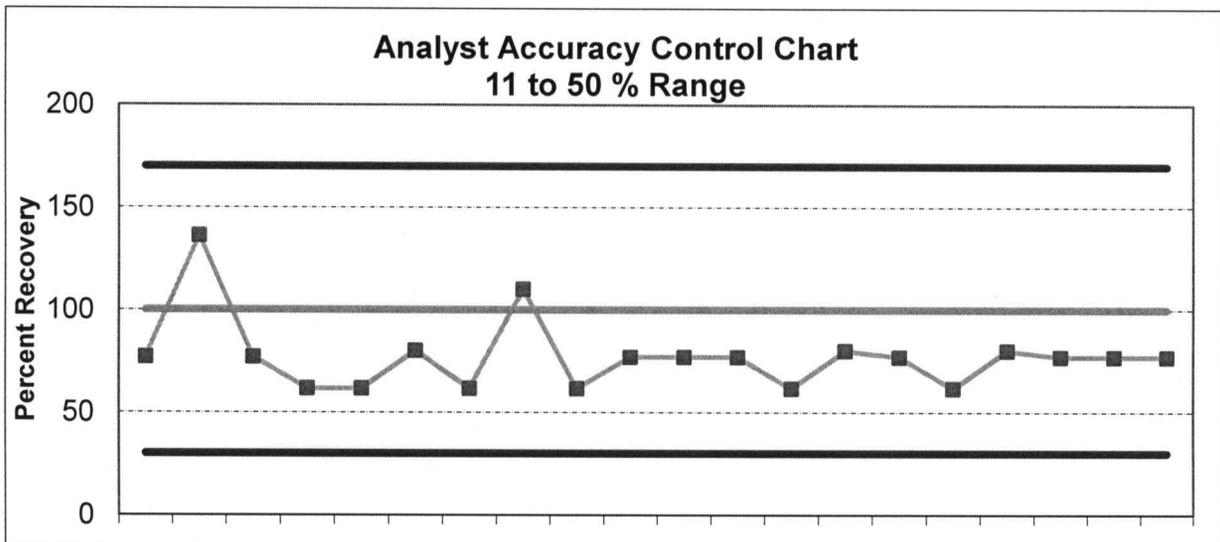
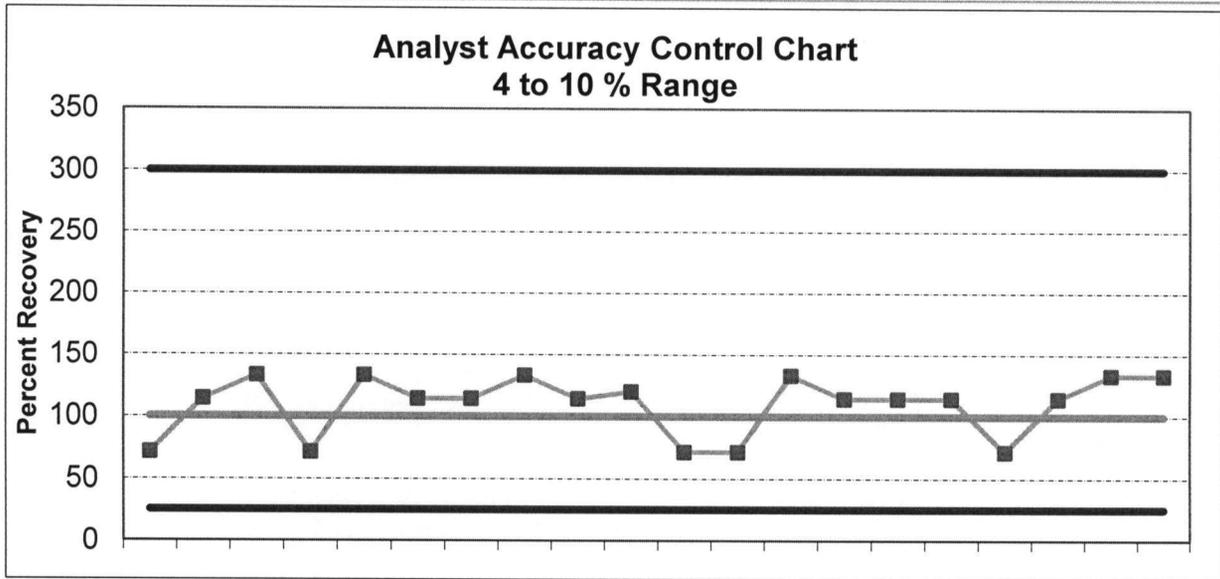
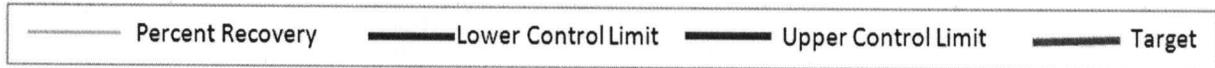
## 4. QC Data Reports/Logs

# EMSL PLM ANALYST ACCURACY

Analyst: Amy Johnson

		Accuracy Coefficient (target 0)	Recovery (Bias) (target 100)
Range:	ND - 3 %	0.0	100.0
	4 - 10 %	23.9	109.6
	11 - 50 %	27.3	77.4
	51 - 100 %	10.3	97.9





# EMSL PLM ANALYST ACCURACY

Analyst: Amy Johnson

Enter multiple asbestos types w/ the predominant type first.

Accuracy Coefficient -

Range: ND - 3%

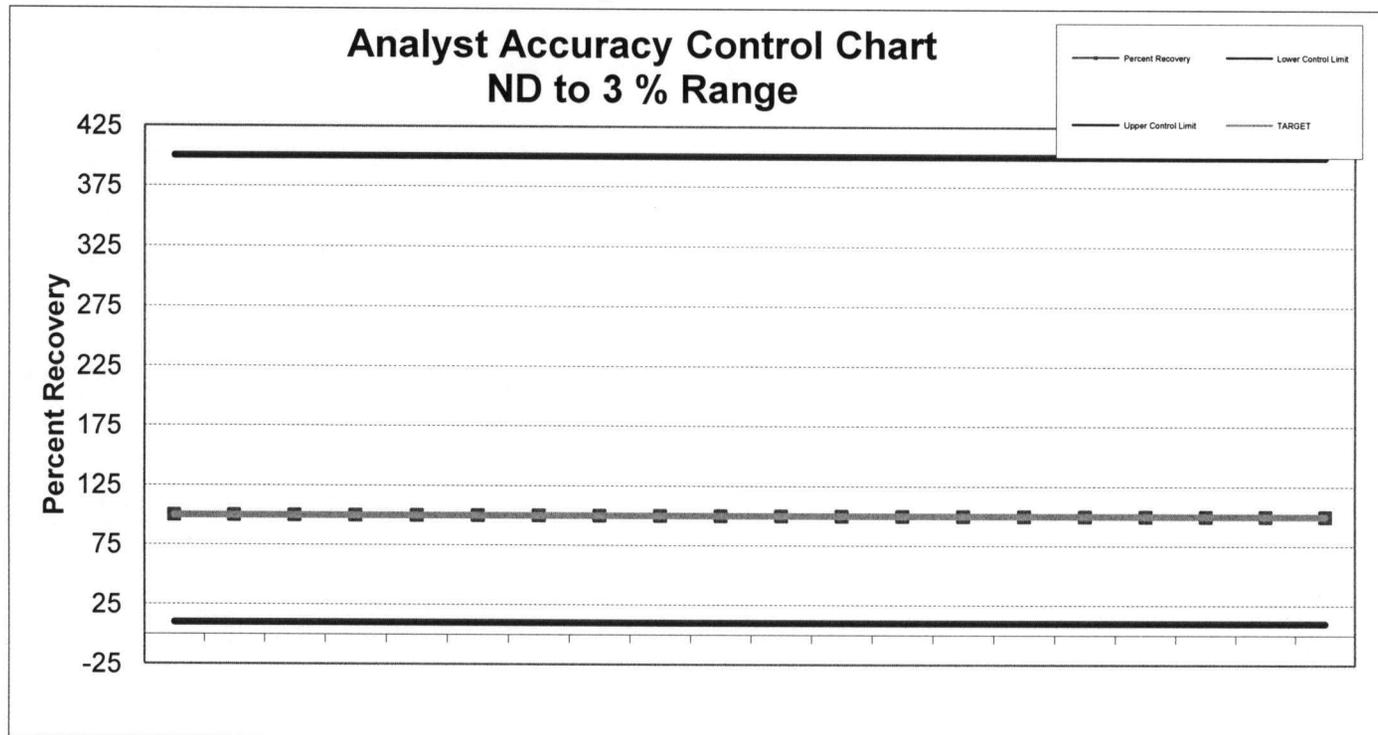
(ex. Chrys / Amos when %Chrys is > %Amosite)

Target	
100%	0%

Enter "ND" in the "%" Column for None Detect Analyses

Date	Sample ID	Reference Values		Analysis Results		Qualitative In Control?	Target		Quantitative In Control?
		Asbestos Type	%	Asbestos Type	%		Percent Recovery	Accuracy Coef.	
8/21/15	FT-1	ND	ND	ND	ND	IN	N/A	N/A	N/A
8/27/15	P	ND	ND	ND	ND	IN	N/A	N/A	N/A
8/28/15	FT-1	ND	ND	ND	ND	IN	N/A	N/A	N/A
8/31/15	FT-5	ND	ND	ND	ND	IN	N/A	N/A	N/A
9/2/15	O	ND	ND	ND	ND	IN	N/A	N/A	N/A
9/3/15	Q	ND	ND	ND	ND	IN	N/A	N/A	N/A
9/4/15	FT-1	ND	ND	ND	ND	IN	N/A	N/A	N/A
9/9/15	O	ND	ND	ND	ND	IN	N/A	N/A	N/A
9/10/15	E	Anthophyllite	<1	Anthophyllite	<1	IN	100	0	IN
9/11/15	FT-5	ND	ND	ND	ND	IN	N/A	N/A	N/A
9/16/15	O	ND	ND	ND	ND	IN	N/A	N/A	N/A
9/17/15	E	Anthophyllite	<1	Anthophyllite	<1	IN	100	0	IN
9/18/15	FT-5	ND	ND	ND	ND	IN	N/A	N/A	N/A
9/19/15	P	ND	ND	ND	ND	IN	N/A	N/A	N/A
9/20/15	W	ND	ND	ND	ND	IN	N/A	N/A	N/A
9/21/15	O	ND	ND	ND	ND	IN	N/A	N/A	N/A
9/22/15	P	ND	ND	ND	ND	IN	N/A	N/A	N/A
9/24/15	FT-5	ND	ND	ND	ND	IN	N/A	N/A	N/A
9/25/15	E	Anthophyllite	<1	Anthophyllite	<1	IN	100	0	IN
9/30/15	O	ND	ND	ND	ND	IN	N/A	N/A	N/A

Average Accuracy Coefficient = 0.0 Target = 0





## 5. Client and EMSL Internal Chains of Custody



REC'D  
EMSL  
ON 11/18/15

### Precautionary Measures Against Hidden Hazards in Laboratory Samples

#### Notice to Laboratory Personnel P 5:44

##### Background

Under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) of 1980, as amended, Section 311 of the Clean Water Act (CWA), as amended, by the Oil Pollution Act of 1990 (OPA), Subtitle I of the Resource Conservation and Recovery Act (RCRA), and pursuant to the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) and Presidential Decision Document (PDD) #39, the Environmental Protection Agency (EPA) has been delegated the responsibility to undertake response actions with respect to, as a general matter, the release or threat of release of oil, petroleum products, hazardous substances, or pollutant and contaminants, that pose an actual or potential threat to human health or welfare, or to the environment. EPA is responsible for conducting evaluations and cleanups of uncontrolled hazardous substance disposal sites and placing those that are considered to pose a significant threat to the public health or the environment on the National Priorities List (NPL).

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of a contracted Removal Support Team (RST) for EPA. The WESTON RST Contract EP-W-06-072, provides this support to EPA Region II.

##### Hazard Communication

The samples which accompany this notice were shipped to your laboratory for analysis in accordance with applicable D.O.T. or IATA Regulations and were collected by the WESTON RST and tentatively designated by the field response team, as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, wells, and off-site soil locations that are not reasonable expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples*. Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times average background as scanned with a radiation survey meter are considered *Radioactive Samples*.

The samples which accompany this notice were tentatively classified by the field response team as:

\_\_\_ Environmental  Hazardous \_\_\_ Comb. (Enviro. & Hazard.) \_\_\_ Radioactive

The field team which collected the samples, used the following Level(s) of personal protection as designated by EPA and OSHA conventions to provide protection against possible radiological or chemical exposure:

\_\_\_ Level A \_\_\_ Level B  Level C \_\_\_ Level D

*The information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA and OSHA regulations. The Sample classification(s) and Levels of personal protection used by the WESTON RST are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgment.*

Laboratory Name EMSL Analytical RFP No. 335  
Prepared by: Karla Guerrero Date 9/18/15

WESTON Office: Region II RST, Edison, NJ; Phone: 732-585-4400 Fax: 732-225-7037



Weston Solutions, Inc.  
Suite 201  
1090 King Georges Post Road  
Edison, NJ 08837  
732-585-4410 - Fax 732-225-7037

REMOVAL SUPPORT TEAM 3 (RST 3)  
EPA CONTRACT EP-S2-14-01

July 24, 2015

Mr. Scott Ross  
EMSL Analytical, Inc.  
200 Route 130 North  
Cinnaminson, New Jersey 08077

**SUBJECT: REQUEST FOR BID FOR RST 2 RFP No. 335**

This letter and request for bid attachment establishes the terms and conditions for the analysis of samples for Weston Solutions, Inc. (WESTON) on behalf of our client, the U.S. Environmental Protection Agency.

The samples are to be analyzed for the parameters listed, by the methods indicated on the attached Request for Bid Form. Any deviations from the methods specified should be submitted with your bid. Method detection limits are those specified in the test method(s) unless otherwise stated. It should be noted that the actual quantity of samples may vary based on field activities. All quoted unit prices for analysis must remain fixed regardless of the actual number of samples sent for analysis. WESTON will make every effort to notify the laboratory if the number of samples is changed from the number specified in this package. The data will be submitted as a paginated, CLP-type package including all CLP forms (or reasonable facsimiles) and supporting raw data. A data review of the written analytical results will be conducted by the WESTON Removal Support Team 2 to verify the integrity of the data. One copy of the written analytical data package is required: (We do not consider results by facsimile machines or electronic results to be the written analytical data package.)

For results received beyond the prescribed turnaround time (in calendar days), a cumulative reduction in the total charge will be three percent for the first day, two percent for the second day, and an additional one percent for each additional day. A delay in the delivery of any portion of the data package will result in a reduction calculated against the charge for the total data package. If the written data is delayed because the delivery date falls on a Saturday, Sunday, or the following holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, the day after Thanksgiving, the day before Christmas, and Christmas, no reduction will be incurred for these days. The turnaround time (day 0) begins with the delivery of the samples to your laboratory. In the event the samples are received after 10:30 AM, the turnaround time will begin on the following day.

**WRITTEN APPROVAL FOR SUBCONTRACTING ANY PORTION OF THIS WORK BY YOUR FIRM MUST BE GRANTED BY THE REGIONAL LABORATORY COORDINATOR ON BEHALF OF WESTON PRIOR TO THE PERFORMANCE OF ANY WORK STATED IN THE AGREEMENT. WESTON MUST BE NOTIFIED OF YOUR INTENT TO SUBCONTRACT AT THE TIME THAT BIDS ARE SUBMITTED. PLEASE BE ADVISED THAT ALL PRICING INFORMATION PROVIDED IN RESPONSE TO THIS RFP IS SUBJECT TO REVIEW BY EPA.**

Initial RS

Date 7-27-15



Weston Solutions, Inc.  
1090 King Georges Post Road, Suite 201  
Edison, NJ 08837  
Phone: (732) 585-4400 • Fax: (732) 225-7037

RECEIVED  
EMSL  
CINNAMINSON, N.J.  
2015 SEP 18 P 5:44

Laboratory Name: EMSL Analytical, Inc.

Attention: Scott Ross

Date: September 18, 2015

RFP No.: 335

This letter requests that your laboratory return all sample coolers to the above address within 14 calendar days following receipt of the shipment. In accordance with the terms and conditions established in the Request for Proposal, all shipping and freight costs for the return of the coolers are the contract laboratory's responsibility.

When returning coolers, please send them to the attention of Rick Francis. Weston Solutions, Inc. greatly appreciates your cooperation in this matter. If you have any questions, please contact us at 732-585-4400.

Sincerely,

Weston Solutions, Inc.

Karla Guerrero  
Site Project Manager



# INTERNAL CHAIN OF CUSTODY

**Order ID: 041528269**

9/18/2015 8:35:57 PM

Attn: Smita Sumbaly  
Weston Solutions (King Georges Post)  
1090 King Georges Post Road  
Suite 201  
Edison, NJ 08837

Fax: \_\_\_\_\_ Phone: (732) 585-4410  
Project: **RFP #335**

Customer ID: RFWE53  
Customer PO: \_\_\_\_\_  
Received: 09/18/15 5:40 PM  
EMSL Order: 041528269  
EMSL Proj ID: \_\_\_\_\_  
Cust COC ID: \_\_\_\_\_

## REPORT TO INSTRUCTIONS

- Send Receipt Confirmation Emails
- No electronic signatures
- Billing Frequency \_\_\_\_\_
- CON -- Create Invoice, Do Not Transfer, Do Not Mail. Contract invoicing in \_\_\_\_\_
- Accounting Terms: N30
- Sales Rep and Comment: gross
- Read to 0.001 s/cc on contract jobs
- Instructions
- Email Results Only! THIS LOCATION DOES EPWORK ONLY! MUST HAVE RFP#. For Bulks w/ layers, email Smita Sumbaly and give her # of layers and final sample count: S.Sumbaly@westonsolutions.com

- Project ID required
- Cust. COC ID required
- Miscellaneous account

## BILL TO INSTRUCTIONS

- Exempt from prep charge
- Exempt from off hour min charges
- Exempt from layer/aliquot charges
- Authorization to use credit card
- P.O. Required

Billing Frequency \_\_\_\_\_  
CON -- Create Invoice, Do Not Transfer, Do Not Mail. Contract invoicing in place, please create the invoice locally and corporate contracts dept. will

Use Billing Contact: \_\_\_\_\_  
Accounting Terms: N30  
Payment Directions: CON

Instructions  
With Report -- Create and send an invoice for each Order ID. PO required on all invoices (PO# 0086623 for 310A)

Internal Comment

SC 9.30.15

**Test:** PLM NYS 198.1 Friable      **Matrix** Bulk      **TAT:** 2 Week      **Qty:** 10

**Desc:** Asbestos Analysis of Bulk Materials by PLM via the

**Logged:** ccurran

- Lab Opening Exempt For Test
- Layer/Aliquot Charge Exempt For Test
- Prep Charge Exempt For Test
- Free Shipping Eligible

**Date:** 9/18/2015

**Sample Condition:**  Acceptable  Unacceptable

Comments

Box 9/29

**Prepped:** AJ      **Date:** 9/30/15  
**Analyzed:**      **Date:** \_\_\_\_\_  
**Data Entry:**      **Date:** \_\_\_\_\_  
**Screened:** CW      **Date:** 9.30.15  
**Mailed:** CW      **Date:** 9.30.15  
**Scanned Internal Docs:** DBZ      **Date:** 9.30.15

## Special Test Instructions

Lab Sample #	Cust. Sample #	Location	Due Date
041528269-0001	P001-BA-022-01	P001-BA-022	10/2/2015 5:40:00 PM
041528269-0002	P001-BA-023-01	P001-BA-023	10/2/2015 5:40:00 PM
041528269-0003	P001-BA-024-01	P001-BA-024	10/2/2015 5:40:00 PM
041528269-0004	P001-BA-025-01	P001-BA-025	10/2/2015 5:40:00 PM
041528269-0005	P001-BA-026-01	P001-BA-026	10/2/2015 5:40:00 PM
041528269-0006	P001-BA-027-01	P001-BA-027	10/2/2015 5:40:00 PM
041528269-0007	P001-BA-028-01	P001-BA-028	10/2/2015 5:40:00 PM

# INTERNAL CHAIN OF CUSTODY

**Order ID: 041528269**

*9/18/2015 8:35:58 PM*

Attn: Smita Sumbaly  
Weston Solutions (King Georges Post)  
1090 King Georges Post Road  
Suite 201  
Edison, NJ 08837

Customer ID: RFWE53  
Customer PO:  
Received: 09/18/15 5:40 PM

Fax: Project: **RFP #335**  
Phone: (732) 585-4410

EMSL Order: 041528269  
EMSL Proj ID:  
Cust COC ID

<b>Lab Sample #</b>	<b>Cust. Sample #</b>	<b>Location</b>	<b>Due Date</b>
041528269-0008	P001-BA-029-01	P001-BA-029	10/2/2015 5:40:00 PM
041528269-0009	P001-BA-030-01	P001-BA-030	10/2/2015 5:40:00 PM
041528269-0010	P001-BA-031-01	P001-BA-031	10/2/2015 5:40:00 PM



## 6. Equipment Performance Checks





## 7. NVLAP/AIHA Certifications

United States Department of Commerce  
National Institute of Standards and Technology



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# Certificate of Accreditation to ISO/IEC 17025:2005

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NVLAP LAB CODE: 101048-0

**EMSL Analytical, Inc.**  
Cinnaminson, NJ

is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:

## Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

---

2015-06-02 through 2016-06-30

Effective Dates



A handwritten signature in black ink, appearing to read "James R. M...".

For the National Voluntary Laboratory Accreditation Program



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**EMSL Analytical, Inc.**

200 Route 130 North  
Cinnaminson, NJ 08077  
Mr. Ben Ellis  
Phone: 800-220-3675 Fax: 856-786-5973  
Email: bellis@emsl.com  
<http://www.emsl.com>

**ASBESTOS FIBER ANALYSIS**

**NVLAP LAB CODE 101048-0**

**Bulk Asbestos Analysis**

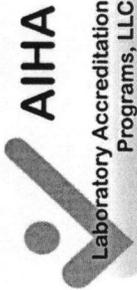
<u>Code</u>	<u>Description</u>
18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

**Airborne Asbestos Analysis**

<u>Code</u>	<u>Description</u>
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

A handwritten signature in black ink, appearing to read "William R. Murphy".

For the National Voluntary Laboratory Accreditation Program



## AIHA Laboratory Accreditation Programs, LLC

*acknowledges that*

### **EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: 100194

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

#### **LABORATORY ACCREDITATION PROGRAMS**

- ✓ INDUSTRIAL HYGIENE      Accreditation Expires: 09/01/2016
- ✓ ENVIRONMENTAL LEAD      Accreditation Expires: 09/01/2016
- ✓ ENVIRONMENTAL MICROBIOLOGY      Accreditation Expires: 09/01/2016
- FOOD      Accreditation Expires:
- UNIQUE SCOPES      Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website ([www.aihaaccreditedlabs.org](http://www.aihaaccreditedlabs.org)) for the most current Scope.

*Gerald R Schultz*

*Gerald Schultz, CIH*  
*Chairperson, Analytical Accreditation Board*

Revision 14: 03/26/2014

*Cheryl O. Morton*

*Cheryl O. Morton*  
*Managing Director, AIHA Laboratory Accreditation Programs, LLC*

Date Issued: 10/31/2014



# AIHA Laboratory Accreditation Programs, LLC

## SCOPE OF ACCREDITATION

**EMSL Analytical, Inc.**  
 200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: **100194**  
 Issue Date: 10/31/2014

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

### Industrial Hygiene Laboratory Accreditation Program (IHLAP)

**Initial Accreditation Date: 02/01/1989**

IHLAP Scope Category	Field of Testing (FoT)	Technology sub-type/ Detector	Published Reference Method/ Title of In-house Method	Method Description or Analyte <i>(for internal methods only)</i>
<b>Chromatography Core</b>	<b>Gas Chromatography</b>	<b>GC/FID</b>	NIOSH 1003 Modified	
			NIOSH 1005	
			NIOSH 1400	
			NIOSH 1500 Modified	
			NIOSH 1501 Modified	
			NIOSH 1550 Modified	
			NIOSH 1603 Modified	
		NIOSH 2000 Modified		
		<b>GC/ECD</b>	NIOSH 5502 Modified	
			NIOSH 5503 Modified	
	NIOSH 5510 Modified			
	<b>GC/MS</b>		EPA TO-15	
	<b>Gas Chromatography (Diffusive Samplers)</b>		NIOSH 1501 Modified	
	<b>Ion Chromatography (IC)</b>		NIOSH 6004 Modified	
			NIOSH 6011	
NIOSH 7903				
OSHA ID-214				
		OSHA ID-215 Modified		



IHLAP Scope Category	Field of Testing (FoT)	Technology sub-type/ Detector	Published Reference Method/Title of In-house Method	Method Description or Analyte <i>(for internal methods only)</i>
Chromatography Core	Liquid Chromatography	HPLC/FL	NIOSH 5506 Modified	
		HPLC/UV	NIOSH 2016	
Spectrometry Core	Atomic Absorption	CVAA	NIOSH 6009 Modified	
			OSHA ID-140 Modified	
			OSHA ID-145	
		FAA	NIOSH 7082	
		GFAA	NIOSH 7105	
	Inductively-Coupled Plasma	ICP/MS	NIOSH 7300 Modified	
		ICP/AES	NIOSH 7300 Modified	
X-ray Diffraction (XRD)		NIOSH 7500 Modified		
		OSHA ID-142 Modified		
UV/VIS (Colorimetric)		NIOSH 6010 Modified		
Asbestos/Fiber Microscopy Core	Polarized Light Microscopy (PLM)		EPA 600/R-93/116	
	Phase Contrast Microscopy (PCM)		NIOSH 7400	
	Transmission Electron Microscopy (TEM)		EPA AHERA - 40 CFR Part 763	EPA AHERA Method (40 CFR 763, Subpart E, Appendix A, Mandatory Method)
Miscellaneous Core	Gravimetric		NIOSH 0500	
			NIOSH 0600	
			NIOSH 5524	
	Thermo-optical Analysis (TOA)		NIOSH 5040	

A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>



## 8. Customer Correspondence



July 24, 2015  
Page - 2 -

**SUBJECT: REQUEST FOR BID FOR RST 2 RFP No. 335**

**LABORATORY NAME: EMSL Analytical, Inc.**

The laboratory is responsible for the disposal of samples. Sample shipping containers must be returned within 14 calendar days following receipt of samples from the sampler. WESTON will not dispose of any samples or pay additional shipping or freight costs. Costs for sample disposal and shipping/freight, if any, must be included in the original bid process.

All bidding laboratories are requested to complete all information and sign the attached Request for Bid Form and return by facsimile at (732) 225-7037 or email at s.sumbaly@westonsolutions.com by 18:30 P.M. hours EDT on July 27, 2015. Late or altered format bids may not be considered for award.

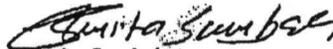
WESTON's payment terms for analytical work are net 45 days from the invoice date or receipt of data (whichever is later), providing the data is complete and that any applicable late penalties are properly reflected on the invoice. Incorrect invoices will cause delays in payment.

By bidding on this project and signing below you are acknowledging receipt and acceptance of the Federal Acquisition Regulation (FAR) clauses (RST 2) and the Appendix L, General Provisions Laboratory Services Agreement that are attached or have previously been provided and which, per our contract with the U.S. Environmental Protection Agency, must be applied to all subcontracts. Please be aware of the insurance provisions contained in the attached Appendix L. If you have not yet supplied this office with a current Certificate of Insurance indicating that your company has the required insurances, please provide such a Certificate with your bid.

If you have questions or require additional information to bid on this project, please contact Smita Sumbaly or Timothy Benton at (732) 585-4425. Please have an authorized representative from your company sign the signature line below, indicating that your firm agrees to the terms set forth in this letter. This letter must be signed by a person empowered to bind the company. Please return a copy of the signed letter via facsimile or email with the Request for Bid Form. If your laboratory is selected for award, a letter of confirmation and the corresponding Purchase Order number will be sent by WESTON.

Sincerely,

WESTON SOLUTIONS, INC.

  
Smita Sumbaly  
Chemist QA/QC Specialist

Authorized Laboratory Signature:



Printed Name:

Robert DeMalo

Position:

SVP Lab Svcs & Bus. Dev.

Attachments:

- Request for Bid Forms
- Sample Analyses Plan
- Representations and Certifications (Fill out, sign, return)
- Appendix L, General Provisions, Laboratory Services Agreement
- Supplemental Provisions (Initial pages, return)

*an employee-owned company*

In association with Scientific and Environmental Associates, Inc., Avatar Environmental, LLC, Environmental Compliance Consultants, On-Site Environmental, Inc., and Sovereign Consulting, Inc.



**ATTACHMENT A  
SAMPLE ANALYSIS PLAN**

**SITE REFERENCE:** RFP No. 335      **TDD #:** TO-0006-0035      **QA-Screening Data**  
**SAMPLING:** August 3 through 7, 2015      **DATE FOR LAB RECEIPT OF SAMPLES:** August 7, 2015  
**RST 2 CONTRACT NO:** EPS2-14-01      **EXPECTED TURNAROUND:** Two weeks Preliminary and Three weeks written Data

No. of Samples	Matrix	Analytical Parameter	Method	Minimum Detection Limit	Unit Cost	Total Cost
40	Bulk	Asbestos - PEM	Friable Samples: NY ELAP 198.1 Non-Friable Samples: NY ELAP 198.4      198.6 If sample concentration <0.1% than run TEM analysis by NY ELAP 198.4. (Results should include type & count of fibers)	0.1%	\$7.00 \$17.00 \$30.00	\$280.00 \$680.00 \$1200.00
The laboratory must be NVLAP certified for asbestos. The site is located in New York.				Total: \$2160.00		
<b>Note:</b> The laboratory is responsible for the following deliverables: <u>Asbestos:</u> Results should include Type of Asbestos, fibers & count of fibers; Analyze samples as per NY ELAP Method 198.1 or 198.6/198.4; 5% of samples, minimum one per batch, shall be counted in duplicate by same analyst (1% relative percent difference); 5% of samples, minimum one per batch, shall be counted in duplicate by different analysts; <u>3.</u> Identify fibers > 3:1 length; width. <u>4.</u> Signed Chain-of-Custody form; <u>5.</u> Narrative statement regarding the analytical method followed and ability to comply with the method, in addition to any problems encountered and corrective actions taken; <u>6.</u> Tabulated sample data results reported in percent (%) asbestos and corresponding detection level; <u>7.</u> Instrument alignment and calibration data, including refractive index liquid calibration data; <u>8.</u> Laboratory Reference Sample results; <u>9.</u> All QC data required by the method; <u>10.</u> Analyst data sheets, sample prep logs, PLM Photos and/or Spectra; and instrument calibration sheets; and <u>11.</u> Documentation must also include: the method of quantitation used; the quality control procedures of the laboratory; and a detailed example calculation that clearly demonstrates the manner in which initial and final results were derived.						

**Laboratory:** EMSL Analytical, Inc.      **Address:** 490 Rowley Road      **City:** Depew      **State:** NY  
**Zip Code:** 14043      **Phone:** (716) 651-0030      **FAX:** (856) 786-5971      **Lab Contact:** Rhonda McGee  
**Sampling Receiving Hours (Monday through Friday):** 8am - 7pm      **Weekends:** 8am - 5pm  
**Email Address:** contracts@emsl.com

**SAMPLE ANALYSIS PLAN**

A SITE REFERENCE: RFP No. 335    SITE ID # ZZ TDD #: TO-0006-0035    QA-Definitive Data  
 SAMPLING DATE: August 3-7, 2015    DATE FOR LAB RECEIPT OF SAMPLES: August 7, 2015  
 RST 3 CONTRACT NO: EP-S2-14-01    EXPECTED TURNAROUND: Two weeks verbal, 3 weeks written.

No. of Samples	Matrix	Analytical Parameter	Method	Minimum Detection Limit	Unit Cost	Total Cost
10 L/M-Conc.	Paint Chips/Flakes	TCLP Metals and mercury	CLP SOW ISM01.3 OR SW 846 methods 6010B (Metals, 7471(Hg).	* See Below	\$140.00	\$1400.00
1 L/M-Conc.	MS/MSD				\$140.00	\$140.00
<p><b>Need Electronic Verbal results at <u>S.Sumbaly@westonsolutions.com</u></b></p> <p><b>Written results must follow a standard USEPA CLP-Format deliverable. All proposed unit prices for analysis must remain fixed regardless of the actual number of samples forwarded for analysis.</b></p> <p>The laboratory is responsible for the following deliverables: <b>SEE ATTACHED LABORATORY DATA PACKAGE ELEMENTS:</b></p> <p>1. Signed Chain-of-Custody form. 2. Narrative statement regarding the quality control procedures utilized and the analytical method followed. In addition, the ability to comply with the method, any problems encountered, and corrective actions taken. 3. Tabulated sample data results and corresponding detection level. 4. Instrument alignment and calibration data. 5. Detailed example calculation that clearly demonstrates the manner in which the initial and final results are derived with each component of the calculation explained. 6. All raw data including sample preparation logs and instrument calibration sheets.</p>						<b>TOTAL: \$1540.00</b>

\* Holding time: **Metals: 6 months & Mercury 28 days** from date of collection to date of analysis.

Laboratory: EMSL Analytical, Inc.    Address: 200 Route 130 North    City: Cinnaminson    State: NJ

Zip Code: 08077    Phone: (800) 220-3675    FAX: (856) 786-5971    Lab Contact: Julie Smith

Sampling Receiving Hours (Monday through Friday): 9am-6pm    Weekends: \_\_\_\_\_

Email Address: contracts@emsl.com

* TCLP 1311/6010C	Arsenic	0.10	TCLP 1311/6010C	Lead	0.10
TCLP 1311/6010C	Barium	0.50	TCLP 1311/6010C	Selenium	0.10
TCLP 1311/6010C	Cadmium	0.10	TCLP 1311/6010C	Silver	0.10
TCLP 1311/6010C	Chromium	0.10	TCLP 1311/7470A	Mercury	0.0020



# 9. Shipping Documentation