

**NOVA**  
**ENVIRONMENTAL, INC.**  
5300 PLYMOUTH ROAD  
ANN ARBOR, MICHIGAN 48105  
734-930-0995

March 6, 2015

Ms. Jennifer Hall  
Executive Director  
Ann Arbor Housing Commission  
404 N. Ashley  
Ann Arbor, MI 48103

RE: Project #CI0168/GC101

Dear Ms. Hall:

Enclosed please find the results of the bulk sample(s) collected by us from 2072 Garden Circle, Ann Arbor, Michigan, throughout, on January 30, 2015. The samples were analyzed utilizing Polarized Light Microscopy (PLM), according to the EPA 600/R-93/116 Method.

If you have any questions or if I can be of further assistance, please feel free to contact me at (734) 930-0995.

Sincerely,

NOVA ENVIRONMENTAL, INC.



Jeffrey J. Benya  
Senior Environmental Consultant

JJB/ij

Enclosures



## BULK SAMPLING INFORMATION

This form provides information regarding the collection of bulk samples, in accordance with 40 CFR, part 763.85(b)(vii)(B).

1. **Date(s) of Bulk Sampling (Project #CI0168/GC101):**

January 30, 2015

2. **Name of Accredited Inspector(s) who collected Bulk Sample(s):**

Jeffrey J. Benya

3. **Signature of Accredited Inspector(s) who collected Bulk Sample(s):**

A handwritten signature in blue ink, appearing to read "Jeffrey J. Benya", is written over a faint, light blue signature line.

4. **State of Accreditation of Inspector(s) who collected Bulk Sample(s):**

Michigan

5. **Accreditation Number of Accredited Inspector(s) who collected Bulk Sample(s):**

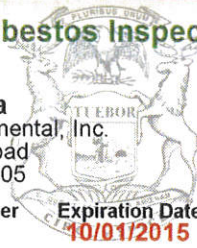
A15464

**Note:** Description of the manner used to determine sample locations:

All Samples are collected in accordance with 40 CFR, Part 763.86 and the EPA's Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials.



### Asbestos Inspector



**Jeffrey J. Benya**  
c/o Nova Environmental, Inc.  
5300 Plymouth Road  
Ann Arbor, MI 48105

Accreditation Number **A15464**      Expiration Date **10/01/2015**

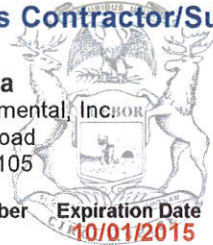
DOB: 05/20/1970

This individual has satisfactorily met or exceeded the requirements of Michigan Public Act 440 of 1988, as amended, to be accredited as an Asbestos Inspector

Accreditation card is not valid if altered.      **112142**



### Asbestos Contractor/Supervisor



**Jeffrey J. Benya**  
c/o Nova Environmental, Inc.  
5300 Plymouth Road  
Ann Arbor, MI 48105

Accreditation Number **A15464**      Expiration Date **10/01/2015**

DOB: 05/20/1970

This individual has satisfactorily met or exceeded the requirements of Section 206 of the Toxic Substances Control Act to be accredited in the above discipline.

Accreditation card is not valid if altered.      **112143**



## LABORATORY INFORMATION

1. **Name of Laboratory:**

EMSL

2. **Address of Laboratory:**

212 South Wagner Road, Ann Arbor, MI 48103

3. **Name of Analyst:**

Orlando J. Ivey II

4. **Signature of Analyst:**

See Attached Laboratory Results Sheet

5. **Date(s) of Analysis:**

January 31, 2015

6. **National Voluntary Laboratory Accreditation Program (NVLAP) Number:**

101048-4

7. **Applicable Requirements Statement:**

Samples are analyzed for asbestos by laboratories accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), in accordance with 40 CFR, Part 763.87(a). This program is provided under the auspices of the United States Department of Commerce National Institute of Standards and Technology. Question #6 provides the NVLAP Accreditation Number for the laboratory, which performed the asbestos bulk analysis on the samples.

2072 Garden Circle  
Bulk Sample Collection Sheet

ACM Sample #	Homogeneous Area Description	F/NF	S/TSI/M	Sample Location	Asbestos Result
CI0110/GC101- 001A	12" x 12" Floor Tile - Orange	NF	M	Kitchen/Dining Room	None Detected
CI0110/GC101- 001B	Mastic for 12" x 12" Floor Tile - Orange	NF	M	Kitchen/Dining Room	None Detected
CI0110/GC101- 002A	12" x 12" Floor Tile - Green	NF	M	Living Room	None Detected
CI0110/GC101- 002B	Mastic for 12" x 12" Floor Tile - Green	NF	M	Living Room	None Detected
CI0110/GC101- 003A	12" x 12" Floor Tile - Blue	NF	M	Bathroom	None Detected
CI0110/GC101- 003B	Mastic for 12" x 12" Floor Tile - Blue	NF	M	Bathroom	None Detected
CI0110/GC101- 004A	12" x 12" Floor Tile - Blue Mottled	NF	M	Master Bedroom	None Detected
CI0110/GC101- 004B	Mastic for 12" x 12" Floor Tile - Blue Mottled	NF	M	Master Bedroom	None Detected
CI0110/GC101- 005A	9" x 9" Floor Tile - Brown	NF	M	Back Bedroom	None Detected
CI0110/GC101- 005B	Mastic for 9" x 9" Floor Tile - Brown	NF	M	Back Bedroom	None Detected
CI0110/GC101- 006	Drywall Wall	NF	M	Living Room	None Detected
CI0110/GC101- 007	Drywall Ceiling	NF	M	Living Room	None Detected
CI0110/GC101- 008	Window Caulk - White	NF	M	Back Bedroom	None Detected
CI0110/GC101- 009	Sink Undercoating - White	NF	M	Kitchen	None Detected
CI0110/GC101- 010	Concrete Wall	NF	M	Basement	None Detected
CI0110/GC101- 011	Concrete Floor	NF	M	Basement	None Detected
CI0110/GC101- 012A	12" x 12" Floor Tile - Mauve	NF	M	Front Bedroom	None Detected
CI0110/GC101- 012B	Mastic for 12" x 12" Floor Tile - Mauve	NF	M	Front Bedroom	None Detected
CI0110/GC101- 013	Attic Vapor Barrier	NF	M	Attic	None Detected
CI0110/GC101- 014	Exterior Brick	NF	M	Front of Building	None Detected
CI0110/GC101- 015	Exterior Brick Mortar	NF	M	Front of Building	None Detected
CI0110/GC101- 016	Exterior Door Caulk - White	NF	M	Front of Building	None Detected
CI0110/GC101- 017	Exterior Window Caulk - White	NF	M	Front of Building	None Detected

**EMSL Analytical, Inc.**

212 South Wagner Road, Ann Arbor, MI 48103  
 Phone/Fax: (734) 668-6810 / (734) 668-8532  
<http://www.EMSL.com> [annarborlab@emsl.com](mailto:annarborlab@emsl.com)

EMSL Order: 081500158  
 CustomerID: NOVA53  
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 ProjectID:


Attn: **Jeff Benya**  
**Nova Environmental, Inc**  
**5300 Plymouth Rd**  
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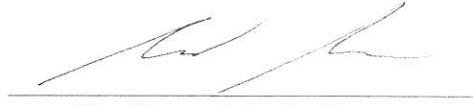
Phone: (734) 930-0995  
 Fax: (734) 930-2969  
 Received: 01/30/15 11:00 AM  
 Analysis Date: 1/31/2015  
 Collected:

Project: CI0168/GC101

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CI0168/GC101-001A <i>081500158-0001</i>	Floor tile	Pink Non-Fibrous  Homogeneous		100% Non-fibrous (other)	None Detected
CI0168/GC101-001B <i>081500158-0002</i>	Mastic	Brown Non-Fibrous  Homogeneous		100% Non-fibrous (other)	None Detected
CI0168/GC101-002A <i>081500158-0003</i>	Floor Tile	Green Non-Fibrous  Homogeneous		100% Non-fibrous (other)	None Detected
CI0168/GC101-002B <i>081500158-0004</i>	Mastic	Brown Non-Fibrous  Homogeneous		100% Non-fibrous (other)	None Detected
CI0168/GC101-003A <i>081500158-0005</i>	Floor Tile	Blue Fibrous  Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
CI0168/GC101-003B <i>081500158-0006</i>	Mastic	Brown/Tan Non-Fibrous  Homogeneous		100% Non-fibrous (other)	None Detected
CI0168/GC101-004A <i>081500158-0007</i>	Floor Tile	Gray/Blue Fibrous  Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)   
 Orlando J. Ivey II (24)

  
 Ryan Shannon, Laboratory Manager  
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Ann Arbor, MI NVLAP Lab Code 101048-4

Initial report from 02/02/2015 09:58:06



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EMSL Order: 081500158  
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Attn: **Jeff Benya**  
**Nova Environmental, Inc**  
**5300 Plymouth Rd**  
**Ann Arbor, MI 48105**


Phone: (734) 930-0995  
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Project: **CI0168/GC101**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CI0168/GC101-004B <i>081500158-0008</i>	Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
CI0168/GC101-005A <i>081500158-0009</i>	Floor Tile	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
CI0168/GC101-005B <i>081500158-0010</i>	Mastic	Clear Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
CI0168/GC101-006 <i>081500158-0011</i>		Gray Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
CI0168/GC101-007A <i>081500158-0012</i>	Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
CI0168/GC101-007B <i>081500158-0012A</i>	Drywall	White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
CI0168/GC101-008 <i>081500158-0013</i>		Gray Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	None Detected
CI0168/GC101-009 <i>081500158-0014</i>		Gray Fibrous Homogeneous	6% Cellulose	94% Non-fibrous (other)	None Detected

Analyst(s)   
 Orlando J. Ivey II (24)

  
 Ryan Shannon, Laboratory Manager  
 or other approved signatory

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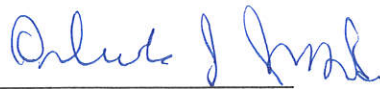
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**Ann Arbor, MI 48105**


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Project: **CI0168/GC101**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CI0168/GC101-010 081500158-0015		Gray Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
CI0168/GC101-011 081500158-0016		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
CI0168/GC101-012A 081500158-0017		Gray/Pink Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
CI0168/GC101-012B 081500158-0018		Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
CI0168/GC101-013 081500158-0019		Brown/Gray Fibrous Homogeneous	6% Glass	94% Non-fibrous (other)	None Detected
CI0168/GC101-014 081500158-0020		Red/Pink Fibrous Homogeneous	2% Glass	98% Non-fibrous (other)	None Detected
CI0168/GC101-015 081500158-0021		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
CI0168/GC101-016 081500158-0022		Gray/White Fibrous Homogeneous	2% Cellulose 3% Glass	95% Non-fibrous (other)	None Detected

Analyst(s)   
Orlando J. Ivey II (24)

  
Ryan Shannon, Laboratory Manager  
or other approved signatory

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## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CI0168/GC101-017		Gray/White		100% Non-fibrous (other)	None Detected
081500158-0023		Non-Fibrous Homogeneous			

Analyst(s)

Orlando J. Ivey II (24)

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