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## **ASBESTOS LABORATORY REPORT**

**Prepared for**

**Environmental Testing Services, Inc.**

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**PROJECT:** 2614 Morganton Road Fayetteville, NC

**CEI LAB CODE:** A14-10364

**DATE ANALYZED:** 07/30/14

**DATE REPORTED:** 07/30/14

**TOTAL SAMPLES ANALYZED:** 20

**# SAMPLES >1% ASBESTOS:** 5

**TEL: 866-481-1412**

***www.ceilabs.com***



# Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 2614 Morganton Road Fayetteville, NC

CEI LAB CODE: A14-10364

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
01-01		A1783943A	Tan	Floor Tile	Chrysotile 5%
		A1783943B	Black	Mastic	Chrysotile <1%
01-02		A1783944A	Tan	Floor Tile	Chrysotile 5%
		A1783944B	Black	Mastic	Chrysotile <1%
02-01		A1783945A	Tan	Floor Tile	Chrysotile 8%
		A1783945B	Black	Mastic	None Detected
02-02		A1783946A	Tan	Floor Tile	Chrysotile 8%
		A1783946B	Black	Mastic	None Detected
03-01		A1783947	Brown,White	Ceiling Tile	None Detected
03-02		A1783948	White,Tan	Ceiling Tile	None Detected
04-01		A1783949	Brown	Adhesive	None Detected
05-01		A1783950	Brown	Ceiling Tile	None Detected
05-02		A1783951	Brown	Ceiling Tile	None Detected
06-01		A1783952	Tan,Gray	Wallboard/Joint Compound	None Detected
06-02		A1783953	Tan,Gray	Wallboard	None Detected
07-01		A1783954	Tan	Heterogeneous,	None Detected
08-01		A1783955	Black,White	Shingle	None Detected
08-02		A1783956	Black,White	Shingle	None Detected
09-01		A1783957	Black	Roof Felt	None Detected
09-02		A1783958	Black	Roof Felt	None Detected
10-01		A1783959	Black	Roof Tar	None Detected
11-01		A1783960	Black,Gray	Roof Coating	Chrysotile 3%
12-01		A1783961	Gray	Window Glazing	None Detected
12-02		A1783962	Gray	Window Glazing	None Detected



# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** Environmental Testing Services, Inc.  
112 Sarabande Drive  
Cary, NC 27513

**CEI Lab Code:** A14-10364

**Date Received:** 07-29-14

**Date Analyzed:** 07-30-14

**Date Reported:** 07-30-14

**Project:** 2614 Morganton Road Fayetteville, NC

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
<b>01-01</b> A1783943A	Floor Tile	Heterogeneous Tan Non-fibrous Bound	<1%	Cellulose	70% 15% 10%	Vinyl Calc Carb Binder	<b>5% Chrysotile</b>
A1783943B	Mastic	Heterogeneous Black Non-fibrous Bound	<1%	Cellulose	75% 25%	Mastic Tar	<b>&lt;1% Chrysotile</b>
Lab Notes: Possible contamination from the floor tile.							
<b>01-02</b> A1783944A	Floor Tile	Heterogeneous Tan Non-fibrous Bound	<1%	Cellulose	70% 15% 10%	Vinyl Calc Carb Binder	<b>5% Chrysotile</b>
A1783944B	Mastic	Heterogeneous Black Non-fibrous Bound	<1%	Cellulose	75% 25%	Mastic Tar	<b>&lt;1% Chrysotile</b>
Lab Notes: Possible contamination from the floor tile.							
<b>02-01</b> A1783945A	Floor Tile	Heterogeneous Tan Non-fibrous Bound	<1%	Cellulose	67% 15% 10%	Vinyl Calc Carb Binder	<b>8% Chrysotile</b>
A1783945B	Mastic	Heterogeneous Black Non-fibrous Bound	<1%	Cellulose	75% 25%	Mastic Tar	<b>None Detected</b>
<b>02-02</b> A1783946A	Floor Tile	Heterogeneous Tan Non-fibrous Bound	<1%	Cellulose	67% 15% 10%	Vinyl Calc Carb Binder	<b>8% Chrysotile</b>



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Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
A1783946B	Mastic	Heterogeneous Black Non-fibrous Bound	<1%	Cellulose	75% 25%	Mastic Tar	None Detected
03-01 A1783947	Ceiling Tile	Heterogeneous Brown,White Non-fibrous Bound	95%	Cellulose	3% 2%	Paint Binder	None Detected
03-02 A1783948	Ceiling Tile	Heterogeneous White,Tan Non-fibrous Bound	95%	Fiberglass	3% 2%	Paint Binder	None Detected
04-01 A1783949	Adhesive	Heterogeneous Brown Non-fibrous Bound	5%	Cellulose	95%	Mastic	None Detected
05-01 A1783950	Ceiling Tile	Heterogeneous Brown Non-fibrous Bound	95%	Fiberglass	3% 2%	Paint Binder	None Detected
05-02 A1783951	Ceiling Tile	Heterogeneous Brown Non-fibrous Bound	95%	Fiberglass	3% 2%	Paint Binder	None Detected
06-01 A1783952	Wallboard/Joint Compound	Heterogeneous Tan,Gray Non-fibrous Bound	10%	Cellulose	3% 75% 12%	Paint Gypsum Binder	None Detected



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## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
06-02 A1783953	Wallboard	Heterogeneous	10%	Cellulose	3%	Paint	None Detected
		Tan,Gray			75%	Gypsum	
		Non-fibrous			12%	Binder	
		Bound					
Lab Notes: No Joint Compound Present.							
07-01 A1783954	Heterogeneous,	Heterogeneous			75%	Silicates	None Detected
		Tan			25%	Binder	
		Non-fibrous					
		Bound					
08-01 A1783955	Shingle	Heterogeneous	5%	Cellulose	5%	Gravel	None Detected
		Black,White	45%	Fiberglass	35%	Tar	
		Fibrous			10%	Binder	
		Bound					
08-02 A1783956	Shingle	Heterogeneous	5%	Cellulose	5%	Gravel	None Detected
		Black,White	45%	Fiberglass	35%	Tar	
		Fibrous			10%	Binder	
		Bound					
09-01 A1783957	Roof Felt	Heterogeneous	75%	Cellulose	25%	Tar	None Detected
		Black					
		Fibrous					
		Bound					
09-02 A1783958	Roof Felt	Heterogeneous	75%	Cellulose	25%	Tar	None Detected
		Black					
		Fibrous					
		Bound					
10-01 A1783959	Roof Tar	Heterogeneous	10%	Cellulose	85%	Tar	None Detected
		Black			5%	Binder	
		Fibrous					
		Bound					



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## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
11-01 A1783960	Roof Coating	Heterogeneous Black, Gray Fibrous Bound	<1%	Cellulose	65%	Paint 32% Binder	3% Chrysotile
12-01 A1783961	Window Glazing	Heterogeneous Gray Fibrous Bound	<1%	Cellulose	3% 75% 22%	Paint Calc Carb Binder	None Detected
12-02 A1783962	Window Glazing	Heterogeneous Gray Fibrous Bound	<1%	Cellulose	75% 25%	Calc Carb Binder	None Detected



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**LEGEND:**     Non-Anth = Non-Asbestiform Anthophyllite  
                  Non-Trem = Non-Asbestiform Tremolite  
                  Calc Carb = Calcium Carbonate

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**METHOD:**    **EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020**

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The detection limit for the method is <1% by visual estimation and 0.25% by 400 point counts or 0.1% by 1,000 point counts.

Due to the limitations of the EPA 600 Method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarizing light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation.

CEI Labs, Inc. can perform positive stop analysis if requested by customer. However, it is the responsibility of the customer to determine if the samples grouped together are in fact the same type of material and belong to the same homogeneous area.

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**ANALYST:**   
Ritika Seal

**APPROVED BY:**   
Tianbao Bai, Ph.D.  
Laboratory Director





107 New Edition Court, Cary, NC 27511  
Tel: 866-481-1412; Fax: 919-481-1442

## CHAIN OF CUSTODY <sup>(20)</sup>

**LAB USE ONLY:**CEI Lab Code: *A14-10364*CEI Lab I.D. Range: *A1783943 - A1783962***COMPANY CONTACT INFORMATION**

Company: Environmental Testing Services, Inc.

Client #:

Address: 112 Sarabande Drive

Job Contact: Scott Minyard

Cary, North Carolina 27513

Email: sminyard@nc.rr.com

Tel: (919) 906-4447

Project Name: *2614 Margenton Road*

Fax:

Project ID #: *Fayetteville, NC*

P.O. #:

ASBESTOS	METHOD	TURN AROUND TIME						
		4 HR*	8 HR*	12 HR*	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (400)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (1000)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAVIMETRIC	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAV w POINT COUNT	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	EPA Level II	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	NIOSH 7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST WIPE	ASTM D6480-05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST MICROVAC	ASTM D5755-03	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM QUALITATIVE	CEI LABS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LEAD PAINT	METHOD	4 HR*	8 HR*	12 HR*	24 HR	2 DAY	3 DAY	5 DAY
LEAD PAINT	EPA SW846 7000B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LEAD WIPE	EPA SW846 7000B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LEAD SOIL	EPA SW846 7000B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LEAD AIR	NIOSH 7082	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS: See Attached.

See Attached.



Accept Samples



Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
<i>Sam</i>	<i>7-29-14</i>	<i>[Signature]</i>	<i>7-29</i> <i>1155</i>

\*Call to confirm RUSH analysis.

Samples will be disposed of 30 days after analysis



A14 10364

INSPECTOR S. Niyand

DATE \_\_\_\_\_

CLIENT \_\_\_\_\_

PROJECT # \_\_\_\_\_

PROJECT DESCRIPTION \_\_\_\_\_

2614  
~~2616~~ Morgan Rd  
 Fayetteville, NC

## ASBESTOS FIELD SAMPLING DATA

Some roof membrane  
 built-up beneath

Sample No.	Sample Description	Sample Location	Condition? (P/F/G)	Friable? (Y/N)	Quantity? (SF/LF)	Notes
01-01 01-02	Tan/Brown 9"x9" FT Inertic	01 - Entry 02 - LR @ Kitchen	F	~	(2,500sf total)	Some beneath ceramic over concrete
02-01 02-02	Brown 9"x9" FT Inertic	01 - Rm, left BR or middle BR 02 - middle BR	F	~	(9"x9")	02 - Beneath carpet
03-01 03-02	1'x1' (Fissure) CT	01 - Rt side e entry 02 - Hall	F	Y	TO	except DR's / Den
04-01	Brown CT Glue / Adhesive	Hall	F	~	TO	"
05-01 05-02	1'x1' (PeHem) CT	Den	F	Y	180sf	Den only
06-01 06-02	Wallboard / GC	01 - Rm left BR 02 - Front left BR	F	Y	(BR ceiling only) 500sf	
07-01	Packaging	Basement Chimney	F	~		
08-01 08-02	Asphalt Shingles	Roof Center - Pitch	F	~		
09-01 09-02	Roofing Felt	"	F	~		
10-01	Roof Tar / Inertic	Roof - Chimney	F	~	50sf	
11-01	Roof Coating	" "	F	~	60sf	
12-01 12-02	Window Glazing	Ext 01 - Front 02 - Right	F	~		