



270 Cobb Parkway South
Suite 140-280
Marietta, GA 30060
(678) 920-9293 – Telephone
(678) 609-1685 – Facsimile
www.echelon-env.com

October 5, 2018

[REDACTED]
Calhoun, GA 30701

**Re: Report on Limited Asbestos Assessment
Private Residence**

Dear Mr. & Mrs. [REDACTED]

ECHELON Environmental Enterprises, LLC (ECHELON) appreciates the opportunity to submit our report detailing a limited Asbestos Assessment within specific areas at the above-mentioned residence. [REDACTED] was the Asbestos Inspector on this project and is experienced in AHERA/ASHARA building sampling protocols.

PROJECT HISTORY

ECHELON understands that the above-referenced residential structure is involved in a possible renovation, and possible interior suspect building materials that are to be affected were identified. Because of this finding, [REDACTED] requested ECHELON to conduct sampling of those specific suspect building materials to determine possible asbestos content.

PROJECT SCOPE

On October 1, 2018, ECHELON personnel visually assessed specific interior suspect asbestos-containing materials (interior wall system (drywall and joint compound), 1-foot by 1-foot ceiling tiles, vinyl and cork flooring) that were identified as suspect for asbestos content. ECHELON collected a total of four bulk samples and all were submitted to the analytical laboratory.

After completion of the physical assessment and collection of bulk samples of building materials, ECHELON delivered the samples under strict Chain of Custody to EuroFins CEI in Cary, North Carolina for analysis via Polarized Light Microscopy (PLM).

PROJECT FINDINGS

The wallboard/joint compound sample contained less than one percent asbestos by weight and is adjudged asbestos containing by US EPA guidelines. Further testing was performed (PLM 400-Point Count) to assess this specific material for asbestos content above or below one percent. Both drywall and joint compound were found to contain asbestos via PLM-Point Count and therefore adjudged non-asbestos containing according to US EPA guidelines. US OSHA does

recommend that appropriate protective measures be employed during the removal of this specific building material. The Chains of Custody and laboratory analytical data is attached to this Report.

LIMITATIONS

Asbestos can be found in a wide range of different materials. For this assessment, ECHELON sampled the suspect materials that will be encountered throughout the residence. When encountered, any suspect material should be treated as an asbestos-containing material until proven otherwise through analysis by a qualified laboratory.

This report has been prepared for the exclusive use of [REDACTED] and designees, for specific application to the limited asbestos assessment referenced within this report. ECHELON cannot accept responsibility for existing or future contamination or subsequent activities. No other warranty is expressed or implied.

Respectfully Submitted,
ECHELON ENVIRONMENTAL ENTERPRISES, LLC



Nathaniel P. Hardee, Jr., CEI
Managing Partner
EAA Certified Environmental Inspector No. 13437
US EPA AHERA/ASHARA Accredited Asbestos Inspector/Management Planner No. 16916
/nph
Attachments

October 3, 2018

Echelon Environmental Enterprises
270 Cobb Parkway South Suite 140-280
Marietta , GA 30060

CLIENT PROJECT: Morgan Residence
CEI LAB CODE: A1811816

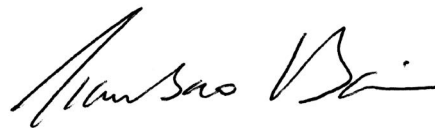
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on October 2, 2018. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT

By: Polarized Light Microscopy

Prepared for

Echelon Environmental Enterprises

CLIENT PROJECT: ████████████████████

LAB CODE: A1811816

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

REPORT DATE: 10/03/18

TOTAL SAMPLES ANALYZED: 4

SAMPLES >1% ASBESTOS:



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: [REDACTED]

LAB CODE: A1811816

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
A1		A127789	Beige,Off-white	Wallboard/Mud	Chrysotile <1%
A2		A127790	Tan,Brown	Vinyl Flooring Covering	None Detected
A3		A127791	Tan,Brown	Cork Flooring	None Detected
A4		A127792	Tan,White	1x1 Lock Spline Ceiling Tile	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Echelon Environmental Enterprises
 270 Cobb Parkway South Suite 140-280
 Marietta , GA 30060

Lab Code: A1811816
Date Received: 10-02-18
Date Analyzed: 10-03-18
Date Reported: 10-03-18

Project: [REDACTED]

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
A1 A127789	Wallboard/Mud	Heterogeneous	5%	Cellulose	10%	Paint	<1% Chrysotile
		Beige,Off-white			75%	Gypsum	
		Fibrous			10%	Calc Carb	
		Bound					
Lab Notes: 2% Chrysotile in mud compound only. <1% Chrysotile in wallboard/mud compound composite.							
A2 A127790	Vinyl Flooring Covering	Heterogeneous	25%	Cellulose	25%	Binder	None Detected
		Tan,Brown	25%	Fiberglass	25%	Vinyl	
		Fibrous			<1%	Mastic	
		Bound					
A3 A127791	Cork Flooring	Heterogeneous			100%	Cork	None Detected
		Tan,Brown			<1%	Mastic	
		Non-fibrous					
		Bound					
A4 A127792	1x1 Lock Spline Ceiling Tile	Heterogeneous	95%	Cellulose	5%	Paint	None Detected
		Tan,White					
		Fibrous					
		Bound					

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

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

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

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 polarized 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. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

ANALYST: Carly Goodman
Carly Goodman

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



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

ASBESTOS CHAIN OF CUSTODY

LAB USE ONLY:
CEI Lab Code: H1811816 (4)
CEI Lab I.D. Range: A127789 - A127792

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: [REDACTED]
Company: Echelon Environmental Services, LLC	Email / Tel:
Address: 270 Cobb Parkway South Suite 140-280	Project Name: [REDACTED]
Marietta, GA 30060	Project ID#:
Email: mail@echelon-env.com	PO #:
Tel: 678-920-9293 Fax: 678-609-1685	STATE SAMPLES COLLECTED IN: GA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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"/>
PLM POINT COUNT (1000)	EPA 600	<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	[REDACTED]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM BULK	CARB 435	[REDACTED]	<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"/>
TEM AIR	EPA AHERA	<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"/>
TEM AIR	ISO 10312	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ASTM 6281-09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD	[REDACTED]	<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"/>
TEM DUST MICROVAC	ASTM D5755-09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM SOIL	ASTM D7521-13	[REDACTED]	[REDACTED]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD	[REDACTED]	[REDACTED]	<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"/>

REMARKS / SPECIAL INSTRUCTIONS:

Accept Samples
 Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Nathaniel Hardee	10/1/18	MLB	10/2/18 9:40

Samples will be disposed of 30 days after analysis

October 5, 2018

Echelon Environmental Enterprises
270 Cobb Parkway South Suite 140-280
Marietta , GA 30060

CLIENT PROJECT: Morgan Residence (Point Count)
CEI LAB CODE: A1811816A

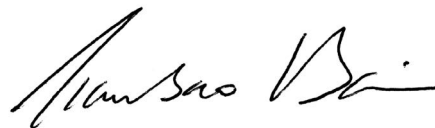
Dear Customer:

Enclosed are asbestos analysis results for PLM bulk samples received at our laboratory on October 4, 2018. The samples were analyzed for asbestos using polarized light microscopy (PLM) point count per the EPA 600 Method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the EPA 600 method is 0.25% for 400 point counts, or 0.1% for 1,000 point counts.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Echelon Environmental Enterprises

CLIENT PROJECT:



LAB CODE:

A1811816A

TEST METHOD:

PLM Point Count
EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE:

10/05/18



CEI

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Echelon Environmental Enterprises
270 Cobb Parkway South Suite 140-280
Marietta , GA 30060

Lab Code: A1811816A
Date Received: 10-04-18
Date Analyzed: 10-05-18
Date Reported: 10-05-18

Project: Morgan Residence (Point Count)

ASBESTOS POINT COUNT PLM, EPA 600 METHOD

Client ID	Lab ID	Material Description	POINTS		ASBESTOS	
			Total	Asbestos	%	
A1	A127789	Mud	400	3	0.75%	Chrysotile
	A127789	Wallboard/mud Composite From Point Count	400		0.12%	Chrysotile

Lab Notes: Mud compound accounts for 5% of overall sample.

LEGEND: None

METHOD: EPA 600 / M4 / 82 / 020 (40 CFR Part 763, Sub. E, App. E)

REPORTING LIMIT: 0.25% by 400 points or 0.1% by 1,000 points

REGULATORY LIMIT: >1% by weight

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ANALYST: Carly Goodman
Carly Goodman

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

CG

[Redacted]

From: [Redacted]
Sent: Thursday, October 4, 2018 3:35 PM
To: #US73_Asbestos
Subject: [Redacted] Request

This is to confirm that for the [Redacted] you are authorized and will be doing a point count on sample A1 on a 24hr TAT, reply at your earliest convenience!

[Redacted]
[Redacted] Environmental Enterprises, LLC



Virus-free. [Redacted]

[Redacted] to report this email as spam.