

# Limited Asbestos Survey Inspection Report

Task Order Number: 1  
State Project Number: 455-01-0034 / H.003453 / H.00866  
F.A.P: 2807(507) / H003453  
Project Name: I-49 Connector (Lafayette)  
Route: I-49  
Parish: Lafayette  
Parcel Number: ADV-58B (A&B)  
513 A&B NE Evangeline Thruway  
Lafayette, LA

Prepared For:

State of Louisiana  
Department of Transportation and Development  
1201 Capitol Access Road, Room S 337  
Baton Rouge, LA 70802

May 12, 2016

By:

Newman Marchive Carlisle, Inc.  
2800 Youree Dr. Suite 310  
Shreveport, Louisiana 71104

Brady Henderson  
Asbestos Certifications:  
Inspector No. 71168369

NMC #153664

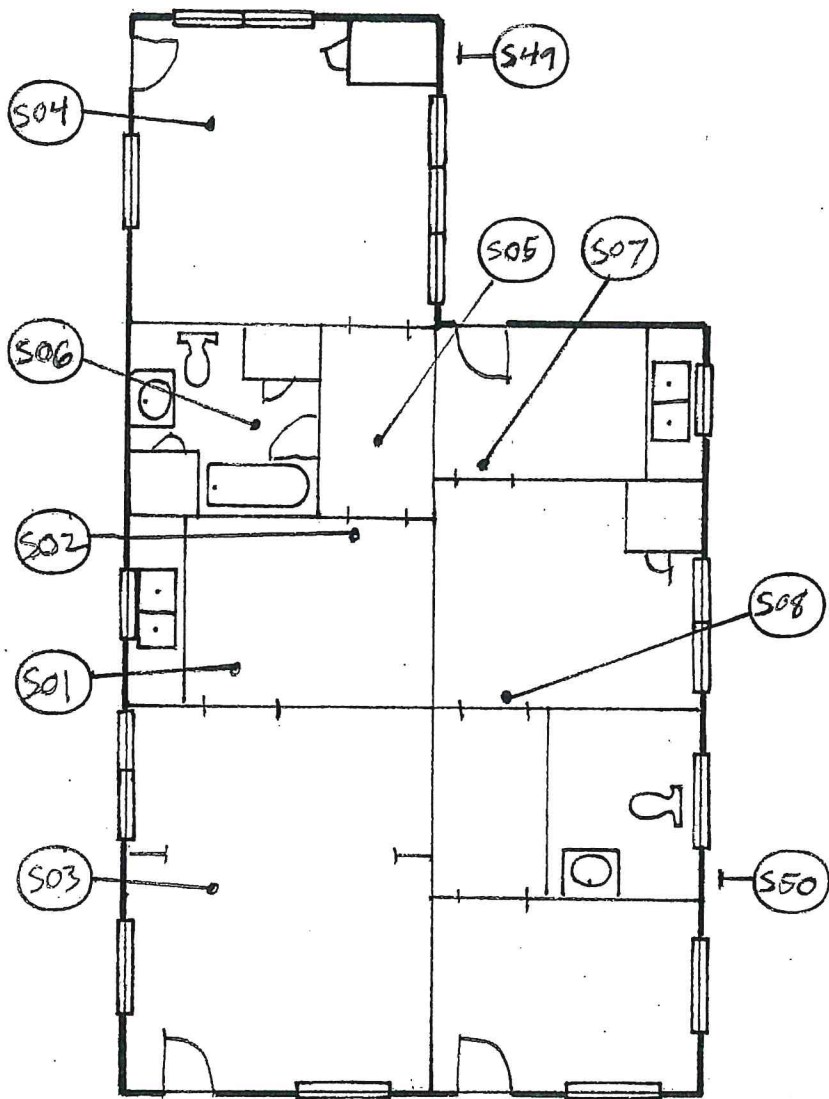
Samples were collected on 04/22/2016 to verify documentation of asbestos containing materials. The following materials were observed at this facility and were considered to be suspect materials:

Sample Number	Description	Condition	Friable	Lab Results
S01	Brown Vinyl Flooring Tan and White Linoleum Yellow Mastic	Damaged	No	None Detected
S02	Brown Vinyl Flooring Tan and White Linoleum Yellow Mastic	Damaged	No	None Detected
S03	White Surfacing Brown Ceiling Tile	Damaged	Yes	None Detected
S04	White Surfacing Brown Ceiling Tile	Damaged	Yes	None Detected
S05	Tan Floor Tile Yellow Mastic	Damaged	No	None Detected
S06	Tan Floor Tile Yellow Mastic	Damaged	No	None Detected
S07	Brown Vinyl Flooring Tan Linoleum Yellow Mastic	Damaged	No	None Detected
S08	Brown Vinyl Flooring Tan Linoleum Yellow Mastic	Damaged	No	None Detected
S49	Black Shingle with Gray Gravel	Damaged	No	None Detected
S50	Black Felt	Damaged	No	None Detected

Materials containing more than one percent asbestos is classified as an asbestos containing material (ACM). Based on sampling results, there were no areas positive for asbestos.

Inspector  
Brady Henderson

Brady Henderson      5/12/16



513 A & B NE Evangeline Thruway, Parcel ADV-58B (A&B)  
 Lafayette, LA  
 DOTD - Evangeline Thruway

Scale: Approx. None  
 Newman Marchive Carlisle, Inc.

Project # 153664

**Floor Plan**

**Asbestos Sample Locations**



4/19/2016  
EXTERIOR SIDE A - 513 A&B NE EVANGELINE THRUWAY  
Pic (01).jpg



4/19/2016  
EXTERIOR SIDE B - 513 A&B NE EVANGELINE THRUWAY  
Pic (02).jpg



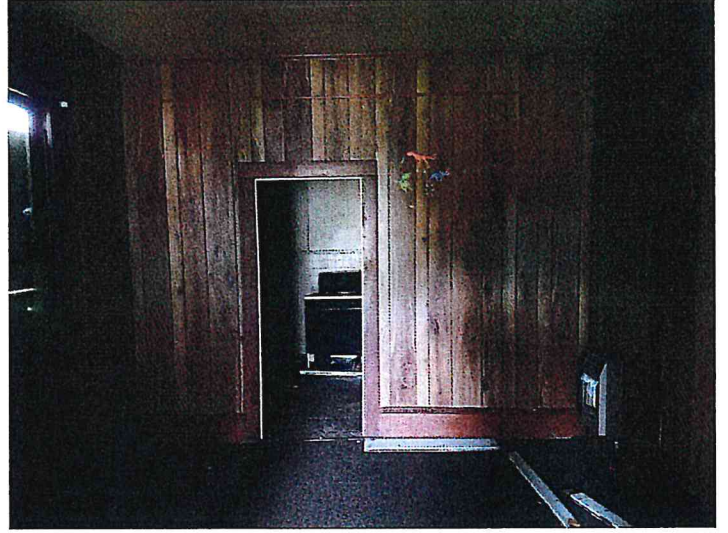
4/19/2016  
EXTERIOR SIDE C - 513 A&B NE EVANGELINE THRUWAY  
Pic (03).jpg



4/19/2016  
EXTERIOR SIDE D - 513 A&B NE EVANGELINE THRUWAY  
Pic (04).jpg



4/19/2016  
513 A&B - INTERIOR A SIDE  
Pic (05).jpg



4/19/2016  
513 A&B - INTERIOR A SIDE  
Pic (06).jpg



4/19/2016  
513 A&B - INTERIOR A SIDE  
Pic (07).jpg



4/19/2016  
513 A&B - INTERIOR A SIDE  
Pic (08).jpg



4/19/2016  
513 A&B - INTERIOR A SIDE  
Pic (09).jpg



4/19/2016  
513 A&B - INTERIOR A SIDE  
Pic (10).jpg



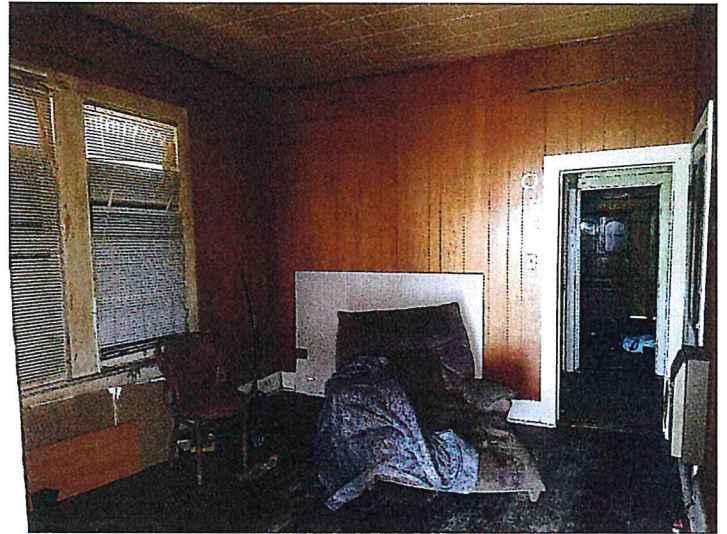
4/19/2016  
513 A&B - ENTRANCE B SIDE  
Pic (11).jpg



4/19/2016  
513 A&B - ENTRANCE B SIDE  
Pic (12).jpg



4/19/2016  
513 A&B - INTERIOR B SIDE  
Pic (13).jpg



4/19/2016  
513 A&B - INTERIOR B SIDE  
Pic (14).jpg



4/19/2016  
513 A&B - INTERIOR B SIDE  
Pic (15).jpg



4/19/2016  
513 A&B - INTERIOR B SIDE  
Pic (16).jpg



4/19/2016  
513 A&B - INTERIOR B SIDE  
Pic (17).jpg



4/19/2016  
SAMPLES S01 & S02 - VINYL SHEET FLOOR GREY/TAN PATTERN  
Pic (18).jpg



4/19/2016  
SAMPLES S05 & S06 - 12X12 FLOOR TILE TAN PATTERN W/ BLACK ADH  
Pic (19).jpg



4/19/2016  
SAMPLES S03 & S04 - 12X12 CEILING TILE WHITE - NAIL ON  
Pic (20).jpg





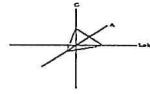
4/19/2016  
SAMPLES S07 & S08 - SHEET FLOOR TAN STONE PATTERN  
Pic (21).jpg



4/19/2016  
SAMPLES S49 & S50 - SHINGLE ROOF & FELT MTRL  
Pic (22).jpg

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12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

## **Materials Characterization - Bulk Asbestos Analysis**

### **Laboratory Analysis Report - Polarized Light**

#### **Newman Archive Carlisle**

2800 Youree Drive, Suite 310  
Shreveport, LA 71104

Attn: John Carlisle

Customer Project: 153664  
Reference #: CBR16041409

Date: 4/29/2016

#### **Analysis and Method**

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

#### **Discussion**

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.

#### **Qualifications**

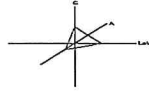
CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM  
LELAP 03069

TDH 30-0370

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Overview of Project Sample Material Containing Asbestos

Customer Project:		153664		CA Labs Project #:	CBR16041409
Sample #	Layer #	Analysts Subsample	Physical Description of	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
S09	1		Red Floor Tile	8% Chrysotile	Red Floor Tile Black Mastic Yellow Floor Tile Black Floor Tile Brown Floor Tile Green Surfaced Gray Transite
	2		Black Mastic	2% Chrysotile	
	3		Yellow Floor Tile	8% Chrysotile	
	4		Black Mastic	2% Chrysotile	
	5		Black Floor Tile	8% Chrysotile	
S10	1		Red Floor Tile	8% Chrysotile	Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM LDEQ TDH 30-0370
	2		Black Mastic	2% Chrysotile	
	3		Yellow Floor Tile	8% Chrysotile	

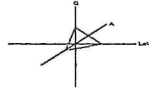
**Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

ca - carbonate	pe - perflite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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Overview of Project Sample Material Containing Asbestos

Customer Project:	153664	CA Labs Project #:	CBR16041409	
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
	4	Black Mastic	2% Chrysotile	
	5	Black Floor Tile	8% Chrysotile	
S21	1	Brown Floor Tile	3% Chrysotile	
	2	Black Mastic	4% Chrysotile	
S22	1	Brown Floor Tile	3% Chrysotile	
	2	Black Mastic	3% Chrysotile	
S47	1	Green Surfaced Gray Transite	20% Chrysotile 3% Amosite	
S48	1	Green Surfaced Gray Transite	20% Chrysotile 3% Amosite	

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM  
LDEQ  
TDH 30-0370

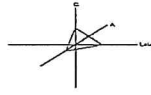
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gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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**Polarized Light Asbestiform Materials Characterization**

Customer Info: Attn: John Carlisle  
**Newman Marchive Carlisle**  
2800 Youree Drive, Suite 310  
Shreveport, LA 71104

Customer Project:  
153664

CA Labs Project #:  
CBR16041409

Phone # 318-219-1814  
Fax # 318-219-1818

Turnaround Time: 5 day

Date: 4/29/2016  
Samples Received: 4/25/2016  
Date Of Sampling:  
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
S01		1		Brown Vinyl Flooring	Y	None Detected	20% fg	80% qu, ma
		2		Tan and White Linoleum	Y	None Detected	10% fg 15% ce	75% qu, ma
		3		Yellow Mastic	Y	None Detected		100% qu, bi
S02		1		Brown Vinyl Flooring	Y	None Detected	20% fg	80% qu, ma
		2		Tan and White Linoleum	Y	None Detected	10% fg 15% ce	75% qu, ma
		3		Yellow Mastic	Y	None Detected		100% qu, bi
S03		1		White Surfacing	Y	None Detected		100% qu, bi

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM TDH 30-0370  
LDEQ

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Alicia Stretz  
Analyst

Senior Analyst  
Alicia Stretz

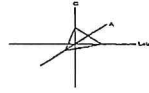
Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers  
2. Fire Damage no significant fiber damages effecting fibrous percentages  
3. Actinolite In association with Vermiculite  
4. Layer not analyzed - attached to previous positive layer and contamination is suspected  
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc  
7. Contamination suspected from other building materials  
8. Favorable scenario for water separation on vermiculite for possible analysis by another method  
9. < 1% Result point counted positive  
10. TEM analysis suggested

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**Polarized Light Asbestiform Materials Characterization**

**Customer Info:** Attn: John Carlisle  
**Newman Archive Carlisle**  
2800 Youree Drive, Suite 310  
Shreveport, LA 71104

**Customer Project:**  
153664

**CA Labs Project #:**  
CBR16041409

Phone # 318-219-1814  
Fax # 318-219-1818

**Turnaround Time:** 5 day

**Date:** 4/29/2016

**Samples Received:** 4/25/2016

**Date Of Sampling:**

**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		2		Brown Ceiling Tile	Y	None Detected	100% ce	
S04		1		White Surfacing	Y	None Detected		100% qu, bi
		2		Brown Ceiling Tile	Y	None Detected	100% ce	
S05		1		Tan Floor Tile	Y	None Detected		100% qu, ca
		2		Yellow Mastic	Y	None Detected		100% qu, bi
S06		1		Tan Floor Tile	Y	None Detected		100% qu, ca
		2		Yellow Mastic	Y	None Detected		100% qu, bi

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM TDH 30-0370

**LDEQ**

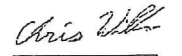
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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Analyst

Senior Analyst  
Alicia Stretz

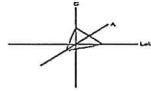
  
Laboratory Director  
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		2	Tan Linoleum	Y	None Detected	10% fg 15% ce	75% qu, ma
		3	Yellow Mastic	Y	None Detected		100% qu, bi
S08		1	Brown Vinyl Flooring	Y	None Detected	20% fg	80% qu, ma
		2	Tan Linoleum	Y	None Detected	10% fg 15% ce	75% qu, ma
		3	Yellow Mastic	Y	None Detected		100% qu, bi
S09		1	Red Floor Tile	Y	8% Chrysotile		92% qu, ca

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM TDH 30-0370

**LDEQ**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
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ma - matrix	qu - quartz	sy - synthetic	

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Analyst

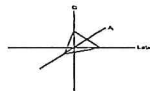
Senior Analyst  
Alicia Stretz  
Laboratory Director  
Chris Williams

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10. TEM analysis suggested

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## Polarized Light Asbestiform Materials Characterization

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Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
	2			Black Mastic	Y	2% Chrysotile		98% qu, bi
	3			Yellow Floor Tile	Y	8% Chrysotile		92% qu, ca
	4			Black Mastic	Y	2% Chrysotile		98% qu, bi
	5			Black Floor Tile	Y	8% Chrysotile		92% qu, ca
	5	6		Black Mastic	Y			
S10		1		Red Floor Tile	Y	8% Chrysotile		92% qu, ca
		2		Black Mastic	Y	2% Chrysotile		98% qu, bi

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM TDH 30-0370

### LDEQ

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gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Alicia Stretz  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

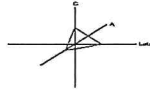
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9. < 1% Result point counted positive
10. TEM analysis suggested



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**Crisp Analytical, L.L.C.**  
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Fax 972-242-2798



**CA Labs, L.L.C.**  
12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

## Polarized Light Asbestiform Materials Characterization

**Customer Info:** Attn: John Carlisle  
**Newman Marchive Carlisle**  
2800 Youree Drive, Suite 310  
Shreveport, LA 71104

**Customer Project:**  
153664  
**Turnaround Time:** 5 day

**CA Labs Project #:**  
GBR16041409  
**Date:** 4/29/2016  
**Samples Received:** 4/25/2016  
**Date Of Sampling:**  
**Purchase Order #:**

**Phone #** 318-219-1814  
**Fax #** 318-219-1818

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		3		Yellow Floor Tile	Y	8% Chrysotile		92% qu, ca
		4		Black Mastic	Y	2% Chrysotile		98% qu, bi
		5		Black Floor Tile	Y	8% Chrysotile		92% qu, ca
		5	6	Black Mastic	Y			
S11		1		White Surfaced Pink Compound	N	None Detected		100% mi, bi, ca
		2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
S12		1		White Surfaced Pink Compound	N	None Detected		100% mi, bi, ca

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM TDH 30-0370

### LDEQ

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for  
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

*Alicia Stretz*

Alicia Stretz  
Analyst

*Chris Williams*

Senior Analyst  
Alicia Stretz

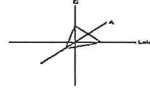
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## Polarized Light Asbestiform Materials Characterization

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2800 Youree Drive, Suite 310  
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**Customer Project:**  
153664

**CA Labs Project #:**  
CBR16041409

**Turnaround Time:** 5 day

**Date:** 4/29/2016

**Samples Received:** 4/25/2016

**Phone #** 318-219-1814

**Fax #** 318-219-1818

**Date Of Sampling:**

**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
S13		1	White Surfaced Pink Compound	N	None Detected		100% mi, bi, ca
		2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
S14		1	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
S15		1	Tan Floor Tile	Y	None Detected		100% qu, ca
		2	Yellow Mastic	Y	None Detected		100% qu, bi
S16		1	Tan Floor Tile	Y	None Detected		100% qu, ca

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM TDH 30-0370

### LDEQ

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-500 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for  
identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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Analyst

Senior Analyst  
Alicia Stretz

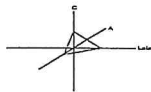
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**Customer Project:**  
153664

**CA Labs Project #:**  
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Phone # 318-219-1814  
Fax # 318-219-1818

**Turnaround Time:** 5 day

**Date:** 4/29/2016

**Samples Received:** 4/25/2016

**Date Of Sampling:**

**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		2	Yellow Mastic	Y	None Detected		100% qu, bi
S17		1	Gray Surfacing	Y	None Detected		100% qu, bi
		2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
S18		1	Gray Surfacing	Y	None Detected		100% qu, bi
		2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
S19		1	White Surfacing	Y	None Detected		100% qu, bi
		2	Brown Ceiling Tile	Y	None Detected	100% ce	

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM TDH 30-0370

### LDEQ

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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Analyst

*Chris Williams*

Senior Analyst  
Alicia Stretz

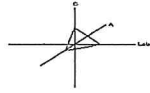
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**Polarized Light Asbestiform Materials Characterization**

Customer Info: Attn: John Carlisle  
**Newman Archive Carlisle**  
2800 Youree Drive, Suite 310  
Shreveport, LA 71104

Customer Project:  
153664

CA Labs Project #:  
CBR16041409

Phone # 318-219-1814  
Fax # 318-219-1818

Turnaround Time: 5 day

Date: 4/29/2016  
Samples Received: 4/25/2016  
Date Of Sampling:  
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
S20		1		White Surfacing	Y	None Detected		100% qu, bi
		2		Brown Ceiling Tile	Y	None Detected	100% ce	
S21		1		Brown Floor Tile	Y	3% Chrysotile		97% qu, ca
		2		Black Mastic	Y	4% Chrysotile		96% qu, bi
S22		1		Brown Floor Tile	Y	3% Chrysotile		97% qu, ca
		2		Black Mastic	Y	3% Chrysotile		97% qu, bi
S23		1		Brown Linoleum	Y	None Detected	10% fg 15% ce	75% qu, ma

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM TDH 30-0370

**LDEQ**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for  
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ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

*Alicia Stretz*  
Alicia Stretz  
Analyst

Senior Analyst  
Alicia Stretz

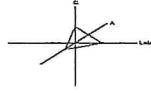
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Laboratory Director  
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**Polarized Light Asbestiform Materials Characterization**

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Shreveport, LA 71104

**Customer Project:**  
153664

**CA Labs Project #:**  
CBR16041409

Phone # 318-219-1814  
Fax # 318-219-1818

**Turnaround Time:** 5 day

**Date:** 4/29/2016

**Samples Received:** 4/25/2016

**Date Of Sampling:**  
**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		2	Yellow Mastic	Y	None Detected		100% qu, bi
S24		1	Brown Linoleum	Y	None Detected	10% fg 15% ce	75% qu, ma
		2	Yellow Mastic	Y	None Detected		100% qu, bi
S25		1	Brown Linoleum	Y	None Detected	10% fg 15% ce	75% qu, ma
		2	Yellow Mastic	Y	None Detected		100% qu, bi
S26		1	Brown Linoleum	Y	None Detected	10% fg 15% ce	75% qu, ma
		2	Yellow Mastic	Y	None Detected		100% qu, bi

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM TDH 30-0370

**LDEQ**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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Analyst

Senior Analyst  
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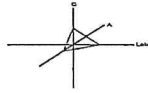
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CBR16041409  
**Date:** 4/29/2016  
**Samples Received:** 4/25/2016

**Phone #** 318-219-1814  
**Fax #** 318-219-1818

**Date Of Sampling:**  
**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
S27		1		Tan Surfacing	Y	None Detected		100% qu, bi
		2		Brown Ceiling Tile	Y	None Detected	100% ce	
S28		1		Tan Surfacing	Y	None Detected		100% qu, bi
		2		Brown Ceiling Tile	Y	None Detected	100% ce	
S29		1		Black Self-Adhesive Floor Tile	Y	None Detected		100% qu, ma
		2		Yellow Mastic	Y	None Detected		100% qu, bi
		3		Tan Linoleum	Y	None Detected	10% fg 15% ce	75% qu, ma

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM TDH 30-0370

**LDEQ**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
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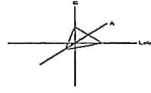
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Phone # 318-219-1814  
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Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		4		Yellow Mastic	Y	None Detected		100% qu, bi
S30		1		Black Self-Adhesive Floor Tile	Y	None Detected		100% qu, ma
		2		Yellow Mastic	Y	None Detected		100% qu, bi
		3		Tan Linoleum	Y	None Detected	10% fg 15% ce	75% qu, ma
		4		Yellow Mastic	Y	None Detected		100% qu, bi
S31		1		Green Linoleum	Y	None Detected	10% fg 15% ce	75% qu, ma
		2		Yellow Mastic	Y	None Detected		100% qu, bi

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM TDH 30-0370  
LDEQ

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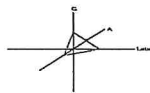
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Phone # 318-219-1814

Fax # 318-219-1818

Date Of Sampling:

Purchase Order #:

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
S32		1		Green Linoleum	Y	None Detected	10% fg 15% ce	75% qu, ma
		5		Yellow Mastic	Y			
S33		1		Tan Floor Tile	Y	None Detected		100% qu, ca
		2		Yellow Mastic	Y	None Detected		100% qu, bi
S34		1		Tan Floor Tile	Y	None Detected		100% qu, ca
		2		Yellow Mastic	Y	None Detected		100% qu, bi
S35		1		Tan Surfacing	Y	None Detected		100% qu, bi

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM TDH 30-0370

**LDEQ**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	ml - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bj - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

*Alicia Stretz*

Alicia Stretz  
Analyst

*Chris Williams*

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

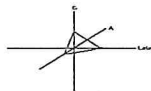
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9. < 1% Result point counted positive
10. TEM analysis suggested



**CA Labs**  
Dedicated to  
Quality

**Crisp Analytical, L.L.C.**  
1929 Old Denton Road  
Carrollton, TX 75006  
Phone 972-242-2754  
Fax 972-242-2798



**CA Labs, L.L.C.**  
12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

**Polarized Light Asbestiform Materials Characterization**

Customer Info: Attn: John Carlisle  
**Newman Archive Carlisle**  
2800 Youree Drive, Suite 310  
Shreveport, LA 71104

Customer Project:  
153664

CA Labs Project #:  
CBR16041409

Turnaround Time: 5 day

Date: 4/29/2016

Samples Received: 4/25/2016

Phone # 318-219-1814

Date Of Sampling:

Fax # 318-219-1818

Purchase Order #:

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		2		Brown Ceiling Tile	Y	None Detected	100% ce	
S36		1		Tan Surfacing	Y	None Detected		100% qu, bi
		2		Brown Ceiling Tile	Y	None Detected	100% ce	
S37		1		Brown Vinyl Flooring	Y	None Detected	20% fg	80% qu, ma
S38		1		Brown Vinyl Flooring	Y	None Detected	20% fg	80% qu, ma
S39		1		Brown Linoleum	Y	None Detected	10% fg 15% ce	75% qu, ma
S40		1		Brown Linoleum	Y	None Detected	10% fg 15% ce	75% qu, ma

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Analyst

*Chris Williams*

Senior Analyst  
Alicia Stretz

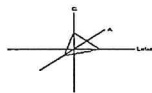
Laboratory Director  
Chris Williams

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10. TEM analysis suggested

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## Polarized Light Asbestiform Materials Characterization

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**CA Labs Project #:**  
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**Turnaround Time:** 5 day

**Date:** 4/29/2016

**Samples Received:** 4/25/2016

**Phone #** 318-219-1814

**Fax #** 318-219-1818

**Date Of Sampling:**

**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
S41		1	Tan Surfacing	Y	None Detected		100% qu, bi
		2	Brown Ceiling Tile	Y	None Detected	90% ce	10% qu, ma
S42		1	Tan Surfacing	Y	None Detected		100% qu, bi
		2	Brown Ceiling Tile	Y	None Detected	90% ce	10% qu, ma
S43		1	Tan Linoleum	Y	None Detected	10% fg 15% ce	75% qu, ma
		2	Yellow Mastic	Y	None Detected		100% qu, bi
S44		1	Tan Linoleum	Y	None Detected	10% fg 15% ce	75% qu, ma

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM TDH 30-0370

### LDEQ

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*Chris Williams*

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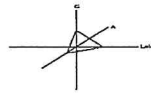
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Customer Project:  
153664

CA Labs Project #:  
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Date: 4/29/2016

Turnaround Time: 5 day

Samples Received: 4/25/2016

Phone # 318-219-1814

Fax # 318-219-1818

Date Of Sampling:

Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		2	Yellow Mastic	Y	None Detected		100% qu, bi
S45		1	Tan Surfacing	Y	None Detected		100% qu, bi
		2	Brown Ceiling Tile	Y	None Detected	90% ce	10% qu, pe
S46		1	Tan Surfacing	Y	None Detected		100% qu, bi
		2	Brown Ceiling Tile	Y	None Detected	90% ce	10% qu, pe
S47		1	Green Surfaced Gray Transite	N	20% Chrysotile 3% Amosite		77% qu, bi, ma, ca
S48		1	Green Surfaced Gray Transite	N	20% Chrysotile 3% Amosite		77% qu, bi, ma, ca

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM TDH 30-0370

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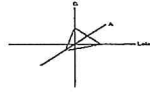
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Date Of Sampling:  
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
S49		1	Black Shingle with Gray Gravel	Y	None Detected	12% fg	88% qu, bi
S50		1	Black Felt	Y	None Detected	40% ce	60% qu, bi
S51		1	Black Shingle with Gray Gravel	Y	None Detected	12% fg	88% qu, bi
S52		1	Black Felt	Y	None Detected	40% ce	60% qu, bi
S53		1	Black Shingle with Gray Gravel	Y	None Detected	12% fg	88% qu, bi
S54		1	Black Felt	Y	None Detected	40% ce	60% qu, bi
S55		1	Black Shingle with Gray Gravel	Y	None Detected	12% fg	88% qu, bi

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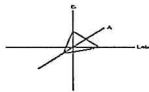
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Purchase Order #:

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S56		1		Black Felt	Y	None Detected	40% ce	60% qu, bi
S57		1		Black Shingle with Gray Gravel	Y	None Detected	12% fg	88% qu, bi
S58		1		Black Felt	Y	None Detected	40% ce	60% qu, bi
S59		1		Black Shingle with Gray Gravel	Y	None Detected	12% fg	88% qu, bi
S60		1		Black Felt	Y	None Detected	40% ce	60% qu, bi

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM TDH 30-0370  
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Newman Marchive Carlisle, Inc.  
 2800 Youree Drive - Suite 310  
 Shreveport, Louisiana 71104

318-219-1814

CBR/604 1409

SAMPLE TRANSMITTAL FORM CHAIN OF CUSTODY		
TO:	CA Labs	
	Baton Rouge, LA	
VIA:	Fed Ex	
<input checked="" type="checkbox"/>	ORIGINAL	<input type="checkbox"/> Copy

DATE	PROJECT NO.	QUANTITY
4/22/16	153664	60
<input checked="" type="checkbox"/>	Bulk Samples	Chips
<input type="checkbox"/>	Air Samples	Water
<input type="checkbox"/>	Soil Samples	MicroVac
<input type="checkbox"/>	Wipe Samples	Other

Turn Around Time	RUSH	5 Days
Results To:	Cyndi Garner	<input checked="" type="checkbox"/> Brady Henderson
<input type="checkbox"/> Phone	318-219-1814	
<input checked="" type="checkbox"/> Email	brady@newmaninc.com	
<input type="checkbox"/> Email	garnerc@newmaninc.com	

If enclosures are not as noted, please notify our office.

Asbestos	Lead	Microbial
<input type="checkbox"/> PCM - NIOSH 7400	<input type="checkbox"/> Wipe	<input type="checkbox"/> Air-O-Cell
<input type="checkbox"/> TEM - AHERA 40 CFR	<input type="checkbox"/> Soil	<input type="checkbox"/> Wipe
<input checked="" type="checkbox"/> PLM - EPA 600	<input type="checkbox"/> Air	<input type="checkbox"/> Bulk
<input type="checkbox"/> Soil	<input type="checkbox"/> Chips	<input type="checkbox"/> Culture
<input type="checkbox"/> Wipe - TEM	<input type="checkbox"/> Water	<input type="checkbox"/> Agar Plate
<input type="checkbox"/> Other	<input type="checkbox"/> Other	<input type="checkbox"/> Other

SAMPLE NO:	Vol / Qty / Area	SAMPLE NO:	Vol / Qty / Area	SAMPLE NO:	Vol / Qty / Area
1 SO1					
2 ↑					
3 ↓					
4					
5 S60					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

COMMENTS / or Sample Testing Instructions:

5 Day TAT. Test all Layers

SAMPLE TRANSFERRED FROM:	
DATE	SIGNATURE / COMPANY
1 4/22/16	Newman Marchive Carlisle, Inc.
3	Brady Henderson

SAMPLE TRANSFERRED TO:	
DATE	SIGNATURE / COMPANY
2 12:45	CA Labs
4 4-25-16	Brady Henderson
4	Newman Marchive Carlisle, Inc.

NMC Office Use	Results To:	
	Date:	

STATE OF LOUISIANA  
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that  
**Brady Henderson**  
Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of  
**ASBESTOS CONTRACTOR/SUPERVISOR**

Accreditation No. 75168369 AI No. 168369  
Date of Issuance 3/3/2016 Expiration 2/28/2017

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.

*Christopher M. Mayfield*  
Permit Support Services Division  
Office of Environmental Services

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**Brady Henderson**  
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**ASBESTOS INSPECTOR**

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DEPARTMENT OF ENVIRONMENTAL QUALITY

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**ASBESTOS MANAGEMENT PLANNER**

Accreditation No. 6P168369 AI No. 168369  
Date of Issuance 1/28/2016 Expiration 11/17/2016

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