

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 (C)
513 C 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:

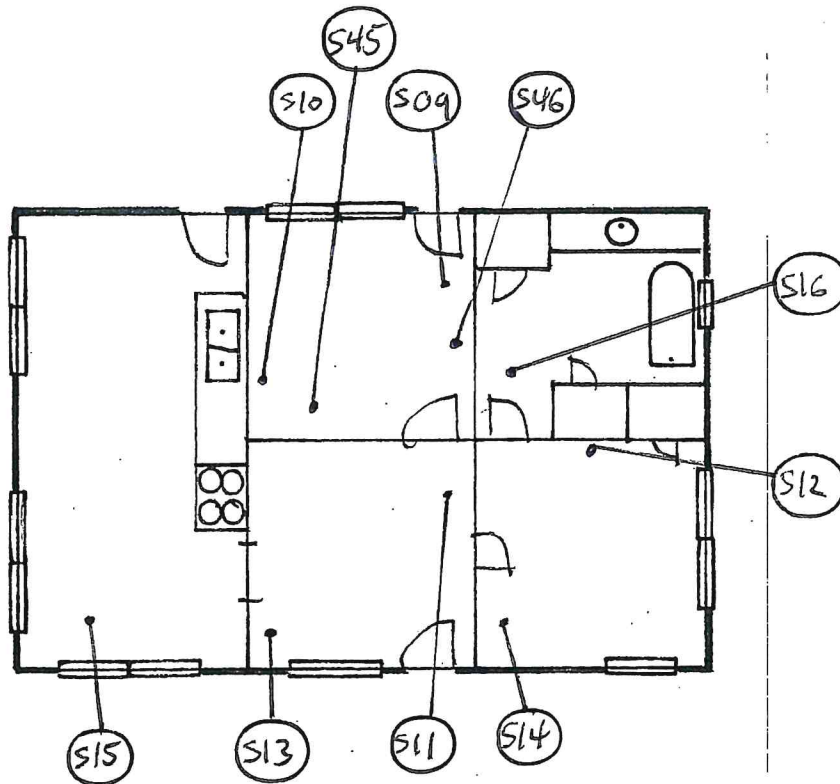
Sample Number	Description	Condition	Friable	Lab Results
S09	Red Floor Tile Black Mastic Yellow Floor Tile Black Mastic Black Floor Tile Black Mastic	Damaged	No	8% Chrysotile 2% Chrysotile 8% Chrysotile 2% Chrysotile 8% Chrysotile
S10	Red Floor Tile Black Mastic Yellow Floor Tile Black Mastic Black Floor Tile Black Mastic	Damaged	No	8% Chrysotile 2% Chrysotile 8% Chrysotile 2% Chrysotile 8% Chrysotile
S11	White Surfaced Pink Compound White Drywall with Paper	Damaged	Yes	None Detected
S12	White Surfaced Pink Compound White Drywall with Paper	Damaged	Yes	None Detected
S13	White Surfaced Pink Compound White Drywall with Paper	Damaged	Yes	None Detected
S14	White Drywall with Paper	Damaged	Yes	None Detected
S15	Tan Floor Tile Yellow Mastic	Damaged	No	None Detected
S16	Tan Floor Tile Yellow Mastic	Damaged	No	None Detected
S45	Tan Surfacing Brown Ceiling Tile	Damaged	Yes	None Detected
S46	Tan Surfacing Brown Ceiling Tile	Damaged	Yes	None Detected

Materials containing more than one percent asbestos is classified as an asbestos containing material (ACM). Based on sampling results, the following areas were positive for asbestos:

- Red Floor Tile
- Yellow Floor Tile
- Black Floor Tile
- Black Mastic

Inspector
Brady Henderson

Brady Henderson 5/12/16



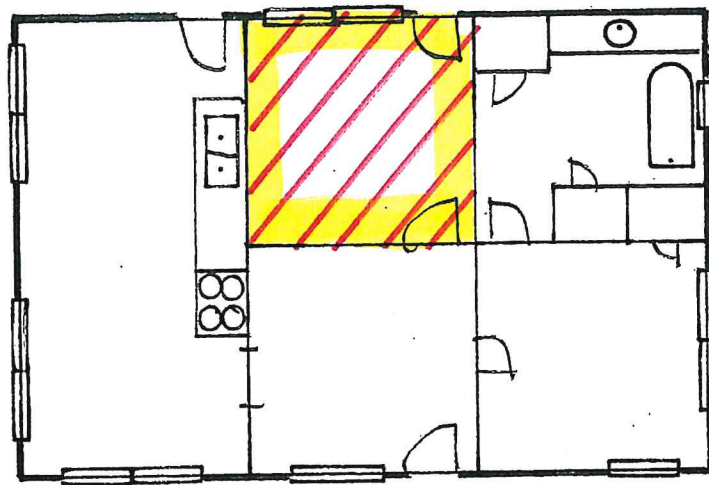
513 C NE Evangeline Thruway, Parcel ADV-58B (C)
 Lafayette, LA
 DOTD - Evangeline Thruway

Scale: Approx. None
 Newman Marchive Carlisle, Inc.

Project # 153664

Floor Plan

Asbestos Sample Locations



 INDICATES LOCATIONS OF MATERIAL

 INDICATES POSITIVE MATERIAL

513 C NE Evangeline Thruway, Parcel ADV-58B ©
 Lafayette, LA
 DOTD - Evangeline Thruway

Floor Plan

Scale: Approx. None
 Newman Marchive Carlisle, Inc.

Project # 153664

HOMOGENEOUS ID / #

F2

DESCRIPTION

**9" x 9" Floor Tile
 Red, Tan, Black Pattern**



4/19/2016
EXTERIOR SIDE A - 513 C NE EVANGELINE THRUWAY
Pic (18).jpg



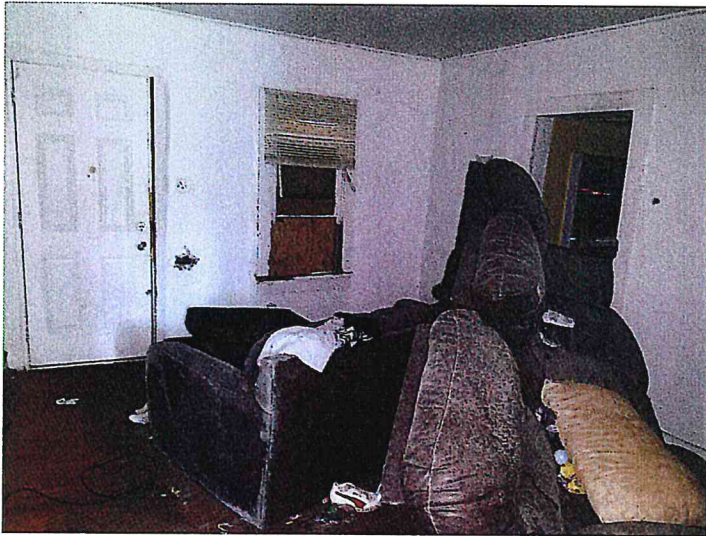
4/19/2016
EXTERIOR SIDE D - 513 C NE EVANGELINE THRUWAY
Pic (19).jpg



4/19/2016
EXTERIOR SIDE C - 513 C NE EVANGELINE THRUWAY
Pic (20).jpg



4/19/2016
513 C - INTERIOR
Pic (21).jpg



4/19/2016
513 C - INTERIOR
Pic (22).jpg



4/19/2016
513 C - INTERIOR
Pic (23).jpg



4/19/2016
513 C - INTERIOR
Pic (24).jpg



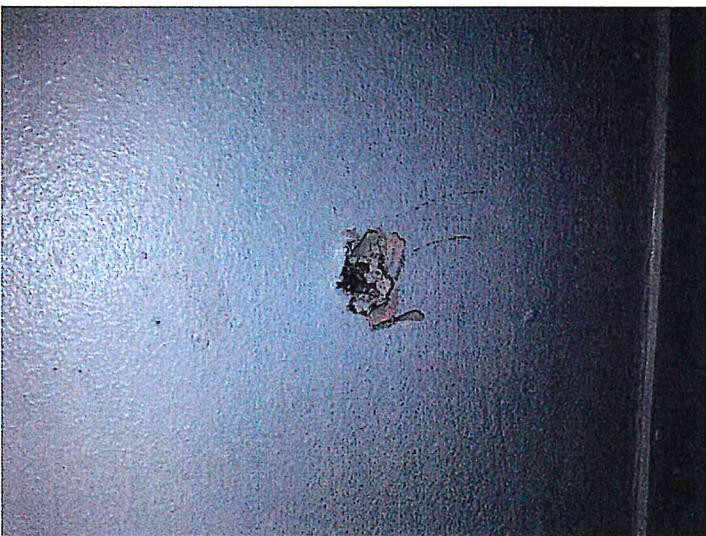
4/19/2016
513 C - INTERIOR
Pic (25).jpg



4/19/2016
513 C - INTERIOR
Pic (26).jpg



4/19/2016
SAMPLES S09 & S10 - 9X9 FLOOR TILE - RED, BLACK, TAN...
Pic (27).jpg



4/19/2016
SAMPLES S11 & S12 - GYPSUM BOARD WALL
Pic (28).jpg



4/19/2016
SAMPLES S13 & S14 - GYPSUM BOARD CEILING
Pic (29).jpg



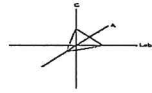
4/19/2016
SAMPLES S15 & S16 - 12X12 FLOOR TILE -TAN PATTERN
Pic (30).jpg



4/19/2016
SAMPLES S51 & S52 - SHINGLE ROOF & FELT MTRL
Pic (31).jpg

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Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Newman Marchive 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 $\leq 1\%$ (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

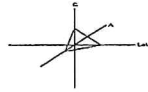
CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized 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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Phone 225-751-5632
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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	
	2		Black Mastic	2% Chrysotile	
	3		Yellow Floor Tile	8% Chrysotile	

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

TDH 30-0370

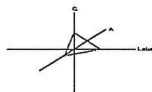
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	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		

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LDEQ

TDH 30-0370

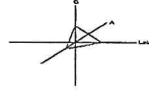
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perite	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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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

Date: 4/29/2016
Samples Received: 4/25/2016

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

Turnaround Time: 5 day

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

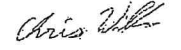
Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM TDH 30-0370
LDEQ

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 - malrix	qu - quartz	sy - synthetic	

Approved Signatories:


Alicia Stretz
Analyst

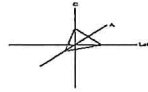

Senior Analyst
Alicia Stretz
Laboratory Director
Chris Williams

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

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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

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
bl - 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

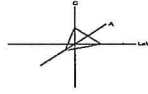
Laboratory Director
Chris Williams

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5. Not enough sample to analyze

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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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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
S07		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
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

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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

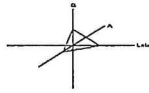
Senior Analyst
Alicia Stretz
Laboratory Director
Chris Williams

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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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2800 Youree Drive, Suite 310
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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		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 - wollastinite	ka - kaolin (clay)
or - organic	pe - perfitte	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Alicia Stretz
Analyst

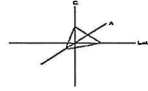
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Alicia Stretz
Laboratory Director
Chris Williams

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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

CA Labs
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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 Marchive Carlisle
2800 Youree Drive, Suite 310
Shreveport, LA 71104

Customer Project:
153664
Turnaround Time: 5 day

CA Labs Project #:
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 Physical Description of Subsample	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 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

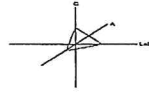
Senior Analyst
Alicia Stretz
Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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3. Actinolite in association with Vermiculite
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5. Not enough sample to analyze

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10. TEM analysis suggested

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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	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-600 / R-93/116)
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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

Senior Analyst
Alicia Stretz

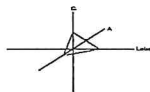
Chris Williams
Laboratory Director
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Phone # 318-219-1814
Fax # 318-219-1818

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
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)
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gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bl - 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:

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Analyst

Senior Analyst
Alicia Stretz

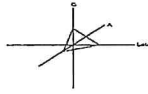
Chris Williams
Laboratory Director
Chris Williams

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Polarized Light Asbestiform Materials Characterization

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2800 Youree Drive, Suite 310
Shreveport, LA 71104

Customer Project:
153664

CA Labs Project #:
CBR16041409

Date: 4/29/2016

Turnaround Time: 5 day

Samples Received: 4/25/2016

Phone # 318-219-1814

Date Of Sampling:

Fax # 318-219-1818

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
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 identification of asbestos types by dispersion attaining / becke line method.

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Approved Signatories:

Alicia Stretz
Analyst

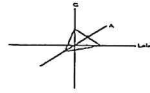
Senior Analyst
Alicia Stretz
Laboratory Director
Chris Williams

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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
Turnaround Time: 5 day

CA Labs Project #: 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
		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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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

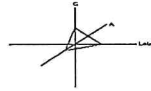
Laboratory Director
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8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Customer Project:
153664
Turnaround Time: 5 day

CA Labs Project #:
CBR16041409
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 Physical Description of Subsample	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)
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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ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Alicia Stretz
Analyst

Senior Analyst
Alicia Stretz

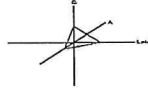
Laboratory Director
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Date: 4/29/2016

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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
		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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Analyst

Senior Analyst
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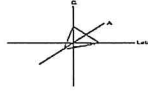
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Phone # 318-219-1814

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Purchase Order #:

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S32		1	Green Linoleum	Y	None Detected	10% fg 15% ce	75% qu, ma
		5	2 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)

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Analyst

Chris Williams

Senior Analyst
Alicia Stretz

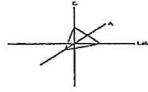
Laboratory Director
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Phone # 318-219-1814
Fax # 318-219-1818

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	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

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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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

Alicia Stretz
Analyst

Chris Williams

Senior Analyst
Alicia Stretz

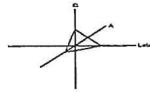
Laboratory Director
Chris Williams

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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

CA Labs
Dedicated to
Quality

Crisp Analytical, L.L.C.
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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 Marchive Carlisle
2800 Youree Drive, Suite 310
Shreveport, LA 71104

Customer Project:

153664

CA Labs Project #:
CBR16041409

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

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Analyst

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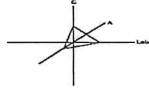
Laboratory Director
Chris Williams

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CA Labs Project #: CBR16041409
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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

LDEQ

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ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

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Analyst

Chris Williams

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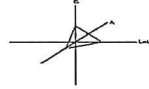
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CA Labs Project #:
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Date: 4/29/2016
Samples Received: 4/25/2016

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

Turnaround Time: 5 day

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

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

LDEQ

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Analyst

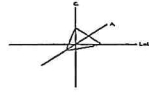
Senior Analyst
Alicia Stretz
Laboratory Director
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Customer Project:
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CA Labs Project #:
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Phone # 318-219-1814
Fax # 318-219-1818

Turnaround Time: 5 day

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

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
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

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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"/>	Air-O-Cell
<input type="checkbox"/>	TEM - AHERA 40 CFR	<input type="checkbox"/>	Wipe
<input checked="" type="checkbox"/>	PLM - EPA 600	<input type="checkbox"/>	Bulk
<input type="checkbox"/>	Soil	<input type="checkbox"/>	Culture
<input type="checkbox"/>	Wipe - TEM	<input type="checkbox"/>	Agar Plate
<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	SGO				
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. Brady Henderson
3	

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

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. 7S168369 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 Mays
Permit Support Services Division
Office of Environmental Services

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that
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and is authorized to perform the duties of
ASBESTOS INSPECTOR

Accreditation No. 7I168369 AI No. 168369
Date of Issuance 3/3/2016 Expiration 4/1/2017

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Office of Environmental Services

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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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