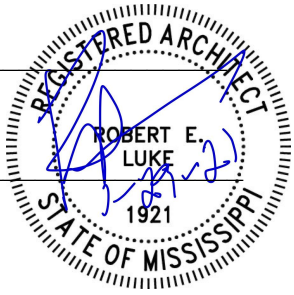
ADDENDUM NO. 1

THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND HEREBY MODIFIES THE ORIGINAL CONSTRUCTION DOCUMENTS DATED JANUARY 21, 2021 RESPECTIVELY.

NAME OF COMPANY

BY



PRE-BID MEETING

Item #1 A pre-bid meeting will be held on site on February 3, 2021 10:00am.

PROJECT MANUAL

Item #2 **SECTION 015000 – ADVERTISEMENT FOR BIDS**

CHANGE: "A Pre-bid Conference is scheduled for: ~~**February 4, 2021 at 10:00am CST**~~ at the project site" to "A Pre-bid Conference is scheduled for: **February 3, 2021 at 10:00am CST** at the project site"

Item #3 **APPENDIX (OWNER PROVIDED DOCUMENTS)**

REPLACE: The Asbestos-Containing Materials Survey Report – by PPM Consultants dated January 19, 2021 with the attached **revised Asbestos-Containing Materials Survey Report dated January 28, 2021**

ADD: The attached Project Specifications for Asbestos Abatement Project dated January 28, 2021 to the appendix.

DRAWINGS

Item #4 **D101 – DEMOLISHED OPENINGS**

ADD: The following note: "Where openings are demolished from the structure provide ¾" painted plywood on 2x4 framing, as required to secure the structure. Provide temporary man door at the existing main entry and at the front of the smaller tenant space on the east side. Omit the demolition of rear single door at the northwest corner of the building.

SEE ATTACHED ITMES FROM ELECTRICAL ENGINEER

END OF ADDENDUM NO. 1

ASBESTOS-CONTAINING MATERIALS SURVEY REPORT

FORMER LABCORP BUILDING
VILLAGE FAIR MALL
606 22ND AVENUE
MERIDIAN, MISSISSIPPI

PPM PROJECT NO. 30060104-01

JANUARY 28, 2021

PPM CONSULTANTS

ASBESTOS-CONTAINING MATERIALS SURVEY REPORT

FOR

Former LabCorp Building
Village Fair Mall
606 22ND Avenue
Meridian, Mississippi

PREPARED FOR:

Lauderdale County, Mississippi
410 Constitution Avenue, FL 11
Meridian, MISSISSIPPI 39301

PPM PROJECT NO. 30060104-01

JANUARY 28, 2021

PREPARED BY:

Regan Byrd

REGAN BYRD, GIT
PROJECT MANAGER

REVIEWED BY:

Trey Hess

JERE (TREY) HESS, P.E.
BROWNFIELD DIRECTOR

PPM CONSULTANTS, INC.
289 COMMERCE PARK DRIVE, SUITE D
RIDGELAND, MISSISSIPPI 39157
(601) 956-8233

TABLE OF CONTENTS

FIGURES (APPENDIX A)

APPENDICES

1.0 INTRODUCTION

PPM Consultants, Inc. (PPM) was retained by Lauderdale County to conduct an update of an Asbestos-Containing Material (ACM) survey of the former LabCorp Building located at 606 22ND Avenue, in Meridian, Lauderdale County, Mississippi conducted in 2019. The purpose of the survey and the update to the survey was to review the 2019 findings and to determine if ACM building materials are present behind column surrounds, ductwork, and in roofing on the building located on the property. This report describes field methodology, presents analytical results, and provides conclusions based on the findings of the ACM survey conducted on July 24, 2019, January 11, 2021, and January 25, 2021. Prior to any demolition or renovation activities, National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations require that any regulated asbestos-containing material (RACM) be removed. RACM consists of all friable ACM, all Category II ACM, and any Category I ACM that is in such poor condition that it may become friable during demolition activities.

2.0 SITE DESCRIPTION

2.1 SITE DESCRIPTION

The LabCorp Building property is located in a commercial area at 606 22ND Street, south of downtown Meridian, Mississippi and is a part of the former Village Fair Mall property, which Lauderdale County purchased in June 2019. The property covers approximately 30,000 square feet and is located in Section 19, Township 6 North. Site location is depicted in **Figure 1, Site Location Map, Appendix A, Figures.**

The LabCorp building is an approximately 30,000-square foot brick building with a slab foundation and flat roof. Site features are included in **Figure 2, Surrounding Area and Site Map, Figures.**

3.0 ASBESTOS CONTAINING MATERIAL INSPECTION

The first asbestos survey was performed on July 24, 2019, and another asbestos survey was performed on January 11, 2021, by PPM State of Mississippi Certified Asbestos Inspectors, **(Appendix B, Mississippi Asbestos Inspectors Certification)**. On January 25, 2021, an additional asbestos survey was performed. PPM's scope of work included a

visual survey and sampling of accessible suspect ACMs on the interior and exterior areas of the buildings. The inspection included a visual assessment of suspect ACMs and subsequent sampling and analysis.

3.1 SAMPLE COLLECTION AND FINDINGS

The LabCorp building was inspected for the presence of suspect ACM. After suspect materials were identified, a minimum of two (2) samples of each homogenous material were collected for analysis. Asbestos sample locations are shown in **Figure 3A, Sample Location Map-Ground Floor, Figure 3B, Sample Location Map-Mezzanine, and Figure 3C, Sample Location Map-Roof** included in **Appendix A, Figures.**

The samples collected were transported under strict chain-of-custody protocol for asbestos analysis to EMSL Labs in Baton Rouge, Louisiana, a laboratory accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). Bulk samples were analyzed for asbestos content using Polarized Light Microscopy (PLM) with Dispersion Staining (EPA Method 600/R-93/116). Analytical results are included in **Appendix B, Laboratory Analytical Results**.

The following 18 homogenous areas of suspect ACM were identified during the visual inspection of the property during the inspection conducted on July 24, 2019:

- Tan 12” x 12” Floor Tile & Mastic (LabCorp (LC) LC-01))
- Red 12” x 12” Floor Tile & Mastic (LC-02)
- Pink 12” x 12” Floor Tile & Mastic (LC-03)
- Gray 12” x 12” Floor Tile & Mastic (LC-04)
- White 12” x 12” Floor Tile & Mastic (LC-05)
- Yellow 12” x 12” Floor Tile & Mastic (LC -06)
- Light pink 12” x 12” Floor Tile & Mastic (LC-07)
- Ceiling Tile 24” x 48” (LC-08)
- Drywall (LC-09)
- Window Caulk (LC-10)
- Green 12” x 12” Floor Tile & Mastic (LC-11)

- Dark Gray 12” x 12” Floor Tile & Mastic (LC-12)
- Roof Flashing (LC-13)
- Side Roofing (LC-14)
- Corrugated Roofing (LC-15)
- Sprayed on Fireproofing (LC-16)
- Water Heater Insulation (LC-17)
- Upstairs 12” x 12” Floor Tile & Mastic (LC-18)

The following 11 homogenous areas of suspect ACM were identified during the visual inspection of the property during the inspection conducted on January 11, 2021:

- Black Roof Flashing Around AC on Lower Roof [LC-01-01 (2021) and LC-02-01 (2021)]
- Black Roof Flashing on Parapet Wall on Lower Roof [LC-03-02 (2021) and LC-04-02 (2021)]
- Black Roofing Material on Lower Roof [LC-05 (2021) and LC-06 (2021)]
- Black Roof Flashing on Lower Roof [LC-07-03 (2021) and LC-08-03 (2021)]
- Gray/White Stucco Cladding on Front of Building [LC-09 (2021) and LC-10 (2021)]
- Black Roof Flashing on Parapet Wall on Upper Roof [LC-11-05 (2021) and LC-12-05 (2021)]
- Black Felt Paper Under Cap on Upper Roof [LC-13 (2021) and LC-14 (2021)]
- White/Beige AC Duct Gasket [LC-15 (2021) and LC-16 (2021)]
- Black Mastic on Wood Around Column [LC-17 (2021) and LC-18 (2021)]
- Yellow Glue on Wood Around Column [LC-19 (2021) and LC-20 (2021)]
- Brown Ceramic Grout on Wall [LC-21 (2021) and LC-22 (2021)]

One homogenous area of suspect ACM was confirmed during the visual inspection of the property conducted on January 25, 2021:

- Tan 12” x 12” Floor Tile & Black Mastic under Carpet [LC-23 (2021)]

According to the analytical results, thirty one (31) of the sixty seven (67) samples collected on July 24, 2019 were identified to contain asbestos. This conclusion is based on the EPA definition of an ACM as material composed of "…greater than 1% asbestos." The identified ACMs are as shown on the following pages:

- **Tan 12" x 12" Floor Tile Mastic (LC-01**). This material, which is located on the interior of the building, was determined to contain 10% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Red 12” x 12” Floor Tile Mastic (LC-02).** This material, which is located on the interior of the building, was determined to contain 8% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Brown 12” x 12” Floor Tile Mastic (LC-03).** This material, which is located on the interior of the building, was determined to contain 10% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Gray 12” x 12” Floor Tile Mastic (LC-04).** This material, which is located on the interior of the building, was determined to contain 10% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **White 12” x 12” Floor Tile Mastic (LC-05).** This material, which is located on the interior of the building, was determined to contain 14% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Orange 12” x 12” Floor Tile Mastic (LC-06).** This material, which is located on the interior of the building, was determined to contain 10% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Beige 12” x 12” Floor Tile Mastic (LC-07).** This material, which is located on the interior of the building, was determined to contain 11% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Green 12” x 12” Floor Tile Mastic (LC-11).** This material, which is located on the interior of the building, was determined to contain 10% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Beige 12” x 12” Floor Tile Mastic (LC-12).** This material, which is located on the interior of the building, was determined to contain 10% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Roof Flashing (LC-13).** This material, which is located on the roof of the building, was determined to contain 12% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Sprayed on Fireproofing (LC-16).** This material, which is located on the beams that traverse horizontally along the entire building and on a four-foot section of the vertical columns above the ceiling tiles in the interior of the building, was determined to contain 10% chrysotile asbestos. This material is classified as a Category II friable ACM according to NESHAPS regulations.

According to the analytical results, twelve (12) of twenty-three (23) samples collected on January 11, 2021, were identified to contain asbestos. This conclusion is based on the EPA definition of an ACM as material composed of "…greater than 1% asbestos." The identified ACMs are as follows:

- **Black Roof Flashing [LC-01-01 (2021) and LC-02-01 (2021)].** This material, which is located around the AC unit on the lower roof, was determined to contain 7% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

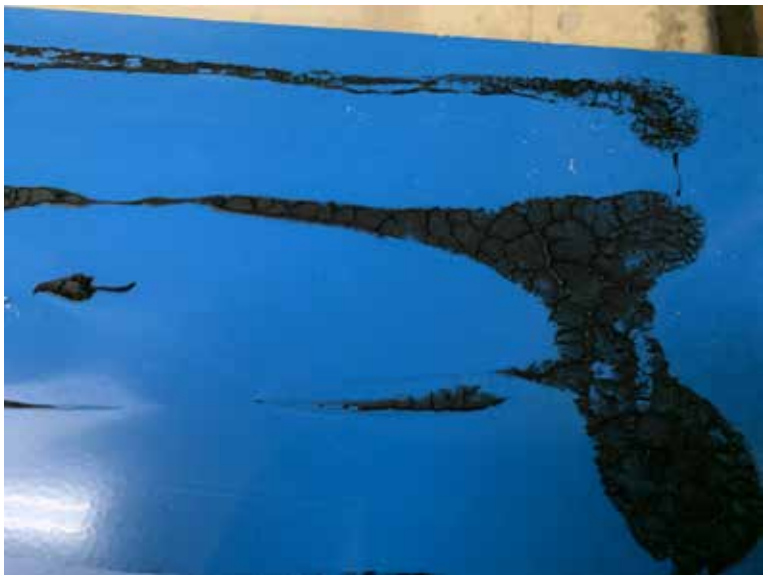
- **Black Roof Flashing [LC-03-02 (2021) and LC-04-02 (2021)].** This material, which is located on the parapet wall on the lower roof, was determined to contain 10% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Black Roof Flashing [LC-07-03 (2021) and LC-08-03 (2021)].** This material, which is located on lower roof, was determined to contain 3% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Black Roof Flashing [LC-11-05 (2021) and LC-12-05 (2021)].** This material, which is located on the parapet wall on the upper roof, was determined to contain 12% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Black Roof Flashing [LC-13 (2021) and LC-14 (2021)].** This material, which is located on the upper roof and is felt paper under the cap, was determined to contain 15% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Black Mastic [LC-17 (2021) and LC-18 (2021)].** This material, which is located on the wood surrounds of some of the metal columns in the interior, was determined to contain 6% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations. A yellow glue was found on some of the wood columns surround the interior as well. However, the yellow glue was sampled [LC-19 (2021) and LC-20 (2021)] and was determined to not contain asbestos.



According to the analytical results, one (1) of the eight (8 samples collected on January 25, 2021 were identified to contain asbestos. This conclusion is based on the EPA definition of an ACM as material composed of "…greater than 1% asbestos." The identified ACMs are as shown on the following pages:

- **Tan 12" x 12" Floor Tile & Black Mastic under Carpet [LC-23 (2021)].** This material, which is located on the interior of the building, was determined to contain 8% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

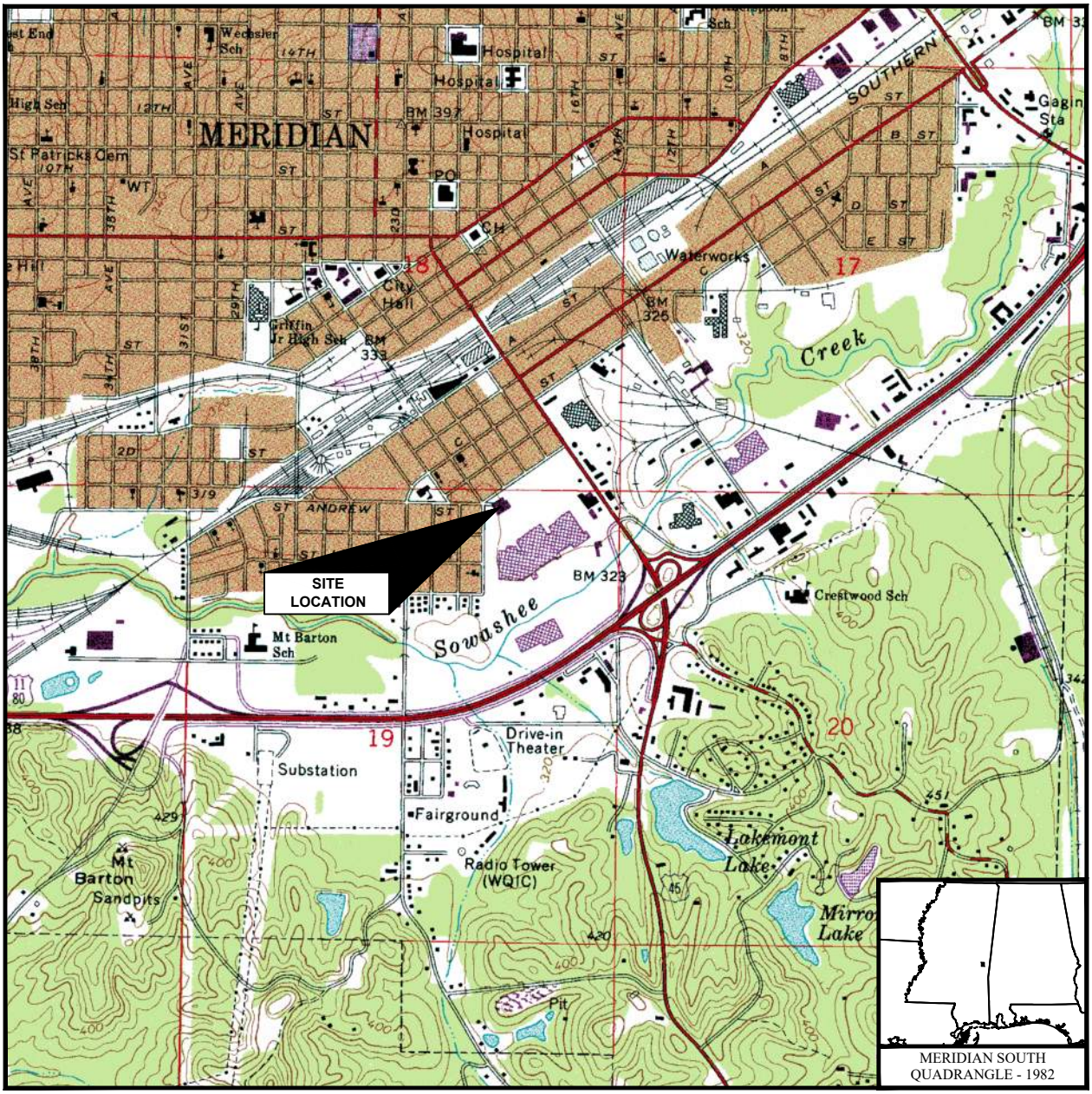
Copies of the laboratory data are included in **Appendix B, Laboratory Analytical Results**.

4.0 RECOMMENDATIONS

Considering these findings, EPA's NESHAP 40 CFR 61, Subpart M, and the MDEQ Title 11 Mississippi Administrative Code, Part 2, Chapter 1 require the removal of RACM prior to any renovation or demolition activities that will disturb those materials and render them friable. RACM consists of all friable, Category II ACM, and all Category I ACM that has become friable or has the potential to become friable as a result of renovation or demolition activities. Both EPA and State of Mississippi regulations require that persons who perform abatement activities be accredited and certified and that all EPA, MDEQ, and Occupational Safety and Health Administration (OSHA) regulations are followed. A renovation/demolition project of this type will also require a written notification be submitted to the MDEQ ten working days prior to the beginning of the project. The MDEQ notification form can be found in the **Appendix C, MDEQ Asbestos Notification Form** of this report.

APPENDICES

APPENDIX A – FIGURES



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1 .5 0 1
MILES

1000 0 1000 5000 10,000
FEET

1 0 KILOMETER 1 2
1000 0 METER 1000 2000

PPM CONSULTANTS, INC. www.ppmco.com		LAUDERDALE COUNTY **FORMER LABCORP BUILDING** 608 22ND AVENUE MERIDIAN, MISSISSIPPI	SITE LOCATION MAP
DRAWN BY: JCP	DRAWN DATE: 1/13/21		FIGURE NUMBER 1
PROJECT NUMBER: 30060104	PHASE: TO-01		

SOURCE: GOOGLE EARTH

I.D.	DESCRIPTION
1	FORMER LABCORP BUILDING
2	GASOLINE STATION
3	FRED'S

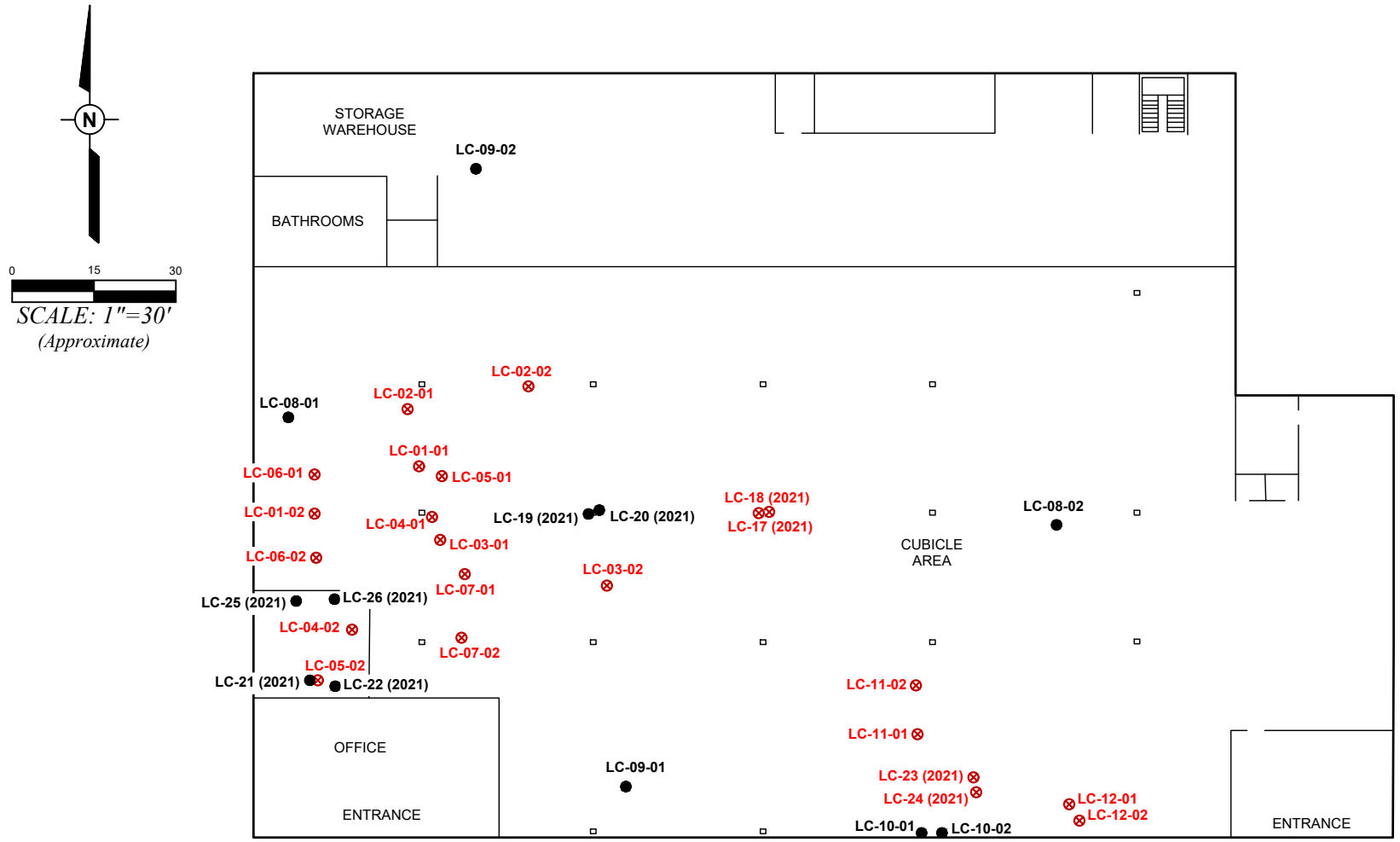
PPM CONSULTANTS, INC.
www.ppmco.com

DRAWN BY:	DRAWN DATE:
JCP	1/13/21
PROJECT NUMBER:	PHASE:
30060104	TO-01

LAUDERDALE COUNTY
FORMER LABCORP BUILDING
608 22ND AVENUE
MERIDIAN, MISSISSIPPI

SURROUNDING AREA AND SITE MAP

FIGURE NUMBER
2



NOTE:
(2021) INDICATES THE SAMPLE WAS COLLECTED ON JANUARY 11, 2021 OR JANUARY 25, 2021. LABELS WITHOUT THIS INDICATION WERE COLLECTED ON JULY 24, 2019.

LEGEND:

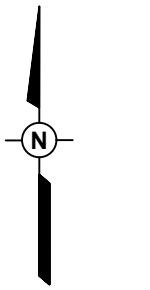
- SAMPLE LOCATION
- POSITIVE SAMPLE LOCATION

PPM CONSULTANTS, INC. www.ppmco.com	
DRAWN BY: JCP	DRAWN DATE: 1/13/21
PROJECT NUMBER: 30060104	PHASE: TO-01

LAUDERDALE COUNTY
FORMER LABCORP BUILDING
608 22ND AVENUE
MERIDIAN, MISSISSIPPI

SAMPLE LOCATION MAP - GROUND FLOOR

FIGURE NUMBER
3A



0 15 30

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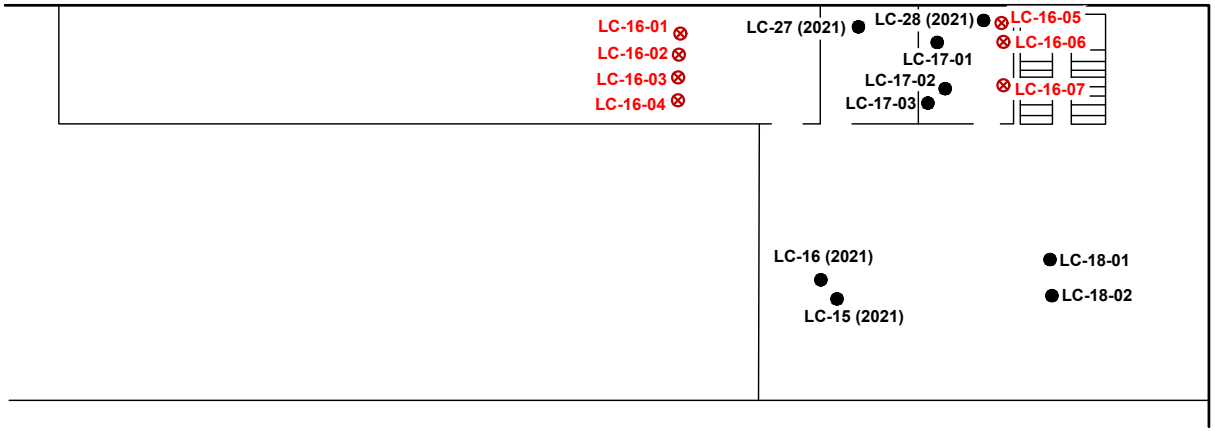
(Approximate)



NOTE:
(2021) INDICATES THE SAMPLE WAS COLLECTED ON JANUARY 11, 2021 OR JANUARY 25, 2021. LABELS WITHOUT THIS INDICATION WERE COLLECTED ON JULY 24, 2019.

LEGEND:

- ● SAMPLE LOCATION
- ⊗ POSITIVE SAMPLE LOCATION

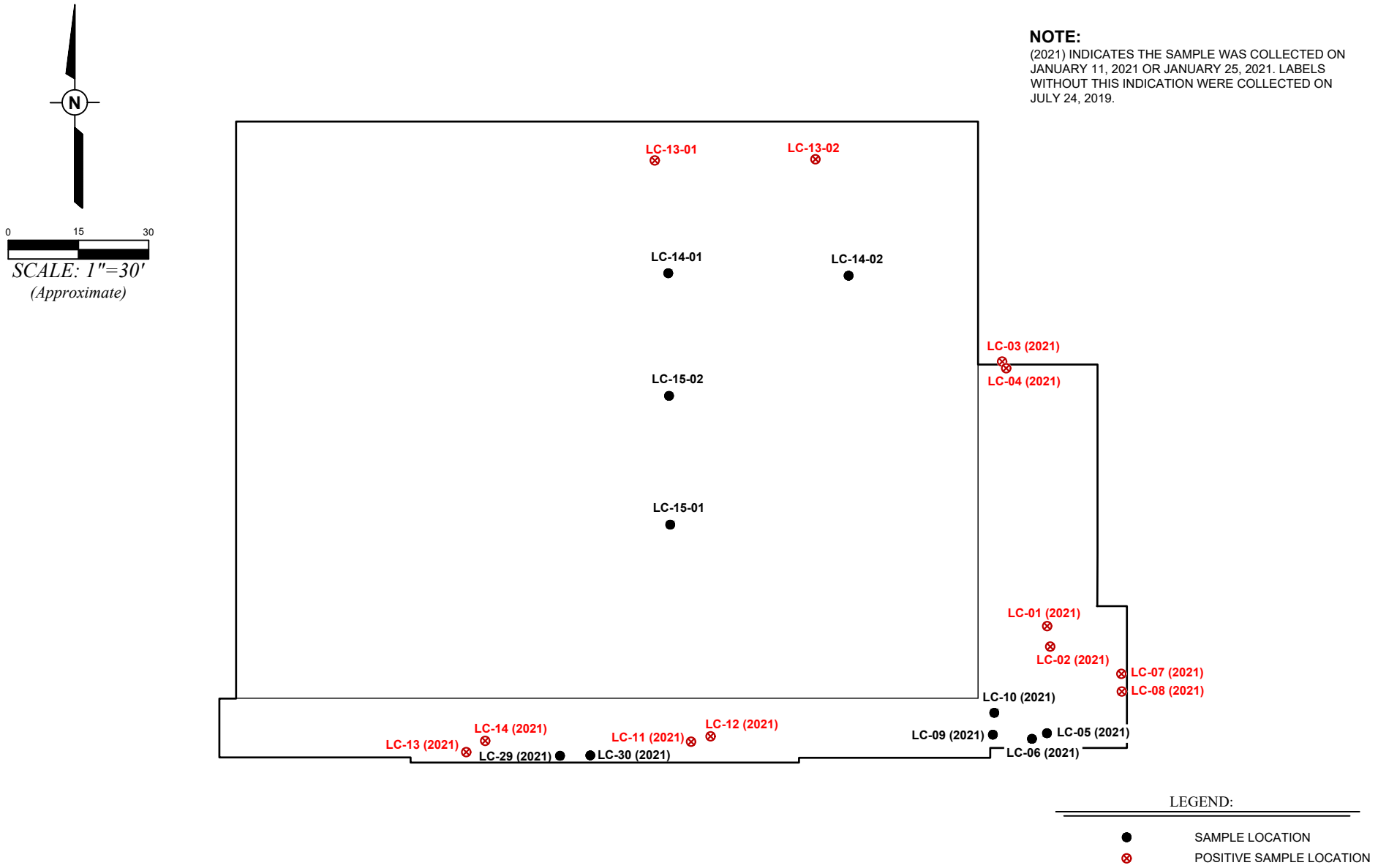
PPM CONSULTANTS, INC. www.ppmco.com	
DRAWN BY: JCP	DRAWN DATE: 1/13/21
PROJECT NUMBER: 30060104	PHASE: TO-01

LAUDERDALE COUNTY
FORMER LABCORP BUILDING
608 22ND AVENUE
MERIDIAN, MISSISSIPPI

SAMPLE LOCATION MAP - MEZZANINE

FIGURE NUMBER
3B

NOTE:
(2021) INDICATES THE SAMPLE WAS COLLECTED ON JANUARY 11, 2021 OR JANUARY 25, 2021. LABELS WITHOUT THIS INDICATION WERE COLLECTED ON JULY 24, 2019.



PPM CONSULTANTS, INC. www.ppmco.com		LAUDERDALE COUNTY **FORMER LABCORP BUILDING** 608 22ND AVENUE MERIDIAN, MISSISSIPPI	SAMPLE LOCATION MAP - ROOF
DRAWN BY: JCP	DRAWN DATE: 1/13/21		FIGURE NUMBER 3C
PROJECT NUMBER: 30060104	PHASE: TO-01		

APPENDIX B – MISSISSIPPI ASBESTOS INSPECTORS CERTIFICATION

State of Mississippi

Department of Environmental Quality

Office of Pollution Control

Certificate of Licensure

In accordance with the Asbestos Abatement Accreditation and Certification Act,
Enacted as 1989 Mississippi Law, Chapter 505

Be it known that

Reginald Sampson

Having submitted acceptable evidence of qualifications and
training and other appropriate information, is hereby granted this

Asbestos Inspector

Certification

Chief, Asbestos & Lead Program Branch

Certificate No.: ABI-00001921
Expiration Date: Sep 18th, 2021
Training Expires on Sep 18th, 2021

40765 LIC20200001

State of Mississippi

Department of Environmental Quality
Office of Pollution Control

Certificate of Licensure

In accordance with the Asbestos Abatement Accreditation and Certification Act,
Enacted as 1989 Mississippi Law, Chapter 505

Be it known that

Alden Blake Sanders

Having submitted acceptable evidence of qualifications and
training and other appropriate information, is hereby granted this

Asbestos Inspector

Certification

Chief, Air Division

Certificate No.: ABI-00007749
Expiration Date: February 14th, 2021
Training Expires on February 14th, 2021

69679 LIC20200001

APPENDIX C –LABORATORY ANALYTICAL RESULTS

EMSL Analytical, Inc.

18369 Petroleum Drive Baton Rouge, LA 70809

Tel/Fax: (225) 755-1920 / (225) 755-1989

http://www.EMSL.com / batonrougelab@emsl.com

EMSL Order:	252100259
Customer ID:	PPMC29
Customer PO:	
Project ID:	

Attention:	Trey Hess	**Phone:**	(601) 497-0501
	PPM Consultants	**Fax:**	
	289 Commerce Park Drive	**Received Date:**	01/26/2021 9:50 AM
	Suite D	**Analysis Date:**	01/26/2021
	Ridgeland, MS 39157	**Collected Date:**	01/25/2021
Project:	30060104-Lab Corp		

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
LC-23-Glue *252100259-0001*	12x12 Floor Tile/Carpet Glue/Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-23-Floor Tile *252100259-0001A*	12x12 Floor Tile/Carpet Glue/Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-23-Mastic *252100259-0001B*	12x12 Floor Tile/Carpet Glue/Mastic	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
LC-24-Glue *252100259-0002*	12x12 Floor Tile/Carpet Glue/Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-24-Floor Tile *252100259-0002A*	12x12 Floor Tile/Carpet Glue/Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-24-Mastic *252100259-0002B*	12x12 Floor Tile/Carpet Glue/Mastic				Positive Stop (Not Analyzed)
LC-25-Ceramic Tile *252100259-0003*	6"x6" Ceramic Tile/Grout	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-25-Grout *252100259-0003A*	6"x6" Ceramic Tile/Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-26-Ceramic Tile *252100259-0004*	6"x6" Ceramic Tile/Grout	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-26-Grout *252100259-0004A*	6"x6" Ceramic Tile/Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-27-Ceramic Tile *252100259-0005*	3"x3" Ceramic Tile/Glue	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-27-Grout *252100259-0005A*	3"x3" Ceramic Tile/Glue	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-27-Glue *252100259-0005B*	3"x3" Ceramic Tile/Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-28-Ceramic Tile *252100259-0006*	3"x3" Ceramic Tile/Glue	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-28-Grout *252100259-0006A*	3"x3" Ceramic Tile/Glue	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-28-Glue *252100259-0006B*	3"x3" Ceramic Tile/Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/26/2021 16:54:31

EMSL Analytical, Inc.
18369 Petroleum Drive Baton Rouge, LA 70809
Tel/Fax: (225) 755-1920 / (225) 755-1989
http://www.EMSL.com / batonrougelab@emsl.com

EMSL Order: 252100259
Customer ID: PPMC29
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
LC-29-Rough Coat *252100259-0007*	Finish Coat on Concrete	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-29-Concrete *252100259-0007A*	Finish Coat on Concrete	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-30-Rough Coat *252100259-0008*	Finish Coat on Concrete	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-30-Concrete *252100259-0008A*	Finish Coat on Concrete	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)
Tyler Pullig (19)

Jamie Laginess, Laboratory Operations Manager
or Other Approved Signatory

Initial report from: 01/26/2021 16:54:31

OrderID: 252100259

Asbestos Chain of Custody

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Order Number (*Lab Use Only*): 0259

PHONE:
FAX:

Company Name: PPM Consultants		**EMSL Customer ID:** PPMC29 (RD)	
Street: 289 Commerce Park Drive Suite D		**City:** Ridgeland	**State/Province:** MS
Zip/Postal Code: 39157	**Country:** USA	**Telephone #:** 6019568233	**Fax #:**
Report To (Name): Trey Hess		**Please Provide Results:** ☐ Fax ☑ Email	
Email Address: trey.hess@ppmco.com,		**Purchase Order:**	
Project Name/Number: 30060104-Lab Corp		**EMSL Project ID** (*Internal Use Only*):	
U.S. State Samples Taken: MS		**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

EMSL-Bill to: ☑ Same ☐ Different - If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour | ☐ 6 Hour (RD) | ☒ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ☐ 1 Week | ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air ☐ Check if samples are from NY
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit) (RD)
- ☑ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NYS 198.8 SOF-V
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM EPA 600/R-93/116 with milling prep (<1%)
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
- ☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)
- ☐ TEM Qualitative via Filtration Prep
- ☐ TEM Qualitative via Drop Mount Prep
- ☐ Cincinnati Method EPA 600/R-04/004 – PLM/TEM (BC only)

Other: ☐

(RD) ☑ Check For Positive Stop – Clearly Identify Homogenous Group

Filter Pore Size (Air Samples): ☐ 0.8µm ☒ 0.45µm

Samplers Name: Reggie Sampson **Samplers Signature:** Reggie Sampson

Sample #	Sample Description	Volume/Area (Air) / HA # (Bulk)	Date/Time Sampled
LC-23	12x12 Floor Tile off-white \ Yellow Carpet Glue \ Black Mastic		1/25/21
LC-24	12x12 Floor Tile off-white \ Yellow Carpet Glue \ Black Mastic		
LC-25	6in x 6in Ceramic Tile \ Grey Grout		
LC-26	6in x 6in Ceramic Tile \ Grey Grout		

Client Sample # (s): LC-23 - LC-30 **Total # of Samples:** 8

Relinquished (Client): Reggie Sampson **Date:** 1/25/21 **Time:** 1570S

Received (Lab): K. Brown **Date:** 1/26/21 **Time:** 9:50am

Comments/Special Instructions:

Page 1 of 2 pages

(R) 7727 2269 4642

181

Controlled Document – Asbestos COC – R10 – 05/09/2016

OrderID: 252100259

EMSL ANALYTICAL, INC.
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Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

0259

PHONE:
FAX:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
LC-27	3in x 3in Green Ceramic Tile \ Yellow Glue		1/25/21
LC-28	3in x 3in Green Ceramic Tile \ Yellow Glue		"
LC-29	White Finish Coat on Concrete		"
LC-30	White Finish Coat on Concrete		"

***Comments/Special Instructions:**

Page 2 of 2 pages

EMSL Analytical, Inc.

18369 Petroleum Drive Baton Rouge, LA 70809

Tel/Fax: (225) 755-1920 / (225) 755-1989

http://www.EMSL.com / batonrougelab@emsl.com

EMSL Order:	252100119
Customer ID:	PPMC29
Customer PO:	
Project ID:	

Attention:	Trey Hess	**Phone:**	(601) 497-0501
	PPM Consultants	**Fax:**	
	289 Commerce Park Drive	**Received Date:**	01/13/2021 9:40 AM
	Suite D	**Analysis Date:**	01/13/2021 - 01/14/2021
	Ridgeland, MS 39157	**Collected Date:**	01/11/2021
Project:	30060104-Lab Corp		

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
LC-01-01 *252100119-0001*	Lower Roof - Roof Flashing	Black Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
LC-02-01 *252100119-0002*	Lower Roof - Roof Flashing				Positive Stop (Not Analyzed)
LC-03-02 *252100119-0003*	Lower Roof - Roof Flashing	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
LC-04-02 *252100119-0004*	Lower Roof - Roof Flashing				Positive Stop (Not Analyzed)
LC-05 *252100119-0005*	Lower Roof - Roofing Material	Black Fibrous Heterogeneous	10% Cellulose 5% Glass	85% Non-fibrous (Other)	None Detected
LC-06 *252100119-0006*	Lower Roof - Roofing Material	Black Fibrous Heterogeneous	5% Cellulose 10% Glass	85% Non-fibrous (Other)	None Detected
LC-07-03 *252100119-0007*	Lower Roof - Roof Flashing	Black Non-Fibrous Homogeneous	5% Cellulose 5% Glass	87% Non-fibrous (Other)	3% Chrysotile
LC-08-03 *252100119-0008*	Lower Roof - Roof Flashing				Positive Stop (Not Analyzed)
LC-09-Wrap *252100119-0009*	Front of Building - Sstucco Cladding	Gray Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
LC-09-Insulation *252100119-0009A*	Front of Building - Sstucco Cladding	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-10 *252100119-0010*	Front of Building - Sstucco Cladding	Gray/White Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
LC-11-05 *252100119-0011*	Upper Roof - Flashing Parapet Wall	Black Non-Fibrous Homogeneous		88% Non-fibrous (Other)	12% Chrysotile
LC-12-05 *252100119-0012*	Upper Roof - Flashing Parapet Wall				Positive Stop (Not Analyzed)
LC-13 *252100119-0013*	Upper Roof - Felt Paper Under Cap	Black Fibrous Homogeneous		85% Non-fibrous (Other)	15% Chrysotile
LC-14 *252100119-0014*	Upper Roof - Felt Paper Under Cap				Positive Stop (Not Analyzed)
LC-15 *252100119-0015*	AC Duct Gasket	White Fibrous Homogeneous	40% Glass	60% Non-fibrous (Other)	None Detected

Initial report from: 01/14/2021 11:27:51

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18369 Petroleum Drive Baton Rouge, LA 70809
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http://www.EMSL.com / batonrougelab@emsl.com

EMSL Order:	252100119
Customer ID:	PPMC29
Customer PO:	
Project ID:	

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
LC-16 *252100119-0016*	AC Duct Gasket	Beige Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
LC-17 *252100119-0017*	Around Column - Black Mastic on Wood	Black Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
LC-18 *252100119-0018*	Around Column - Black Mastic on Wood				Positive Stop (Not Analyzed)
LC-19 *252100119-0019*	Around Column - Yellow Glue on Wood	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-20 *252100119-0020*	Around Column - Yellow Glue on Wood	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-21 *252100119-0021*	On Wall - Ceramic Grout	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-22 *252100119-0022*	On Wall - Ceramic Grout	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Jurnee West (5)
Tyler Pullig (12)

Jamie Laginess, Laboratory Operations Manager
or Other Approved Signatory

Initial report from: 01/14/2021 11:27:51

OrderID: 252100119

EMSL ANALYTICAL, INC.
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Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 0119

PHONE:
FAX:

Company Name: PPM Consultants		**EMSL Customer ID:** PPMC29	
Street: 289 Commerce Park Drive Suite D		**City:** Ridgeland	**State/Province:** MS
Zip/Postal Code: 39157	**Country:** USA	**Telephone #:** 6019568233	**Fax #:**
Report To (Name): Trey Hess		**Please Provide Results:** ☐ Fax ☑ Email	
Email Address: trey.hess@ppmco.com,		**Purchase Order:**	
Project Name/Number: 30060104-Lab Corp		**EMSL Project ID** *(Internal Use Only)*:	
U.S. State Samples Taken: MS		**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

EMSL-Bill to: ☑ Same ☐ Different - If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour | ☐ 6 Hour | ☑ 24 Hour | ☐ 48 Hour | ☑ 72 Hour | ☐ 96 Hour | ☐ 1 Week | ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air ☐ Check if samples are from NY
☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
☑ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NYS 198.8 SOF-V
☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
☐ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP
☐ TEM Mass Analysis-EPA 800 sec. 2.5

TEM – Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
☐ PLM EPA 600/R-93/118 with milling prep (<1%)
☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
☐ TEM EPA 600/R-93/118 with milling prep (<0.1%)
☐ TEM Quelitative via Filtration Prep
☐ TEM Qualitative via Drop Mount Prep
☐ Cincinnati Method EPA 600/R-04/004 – PLM/TEM (BC only)

Other:
☐

☑ Check For Positive Stop – Clearly Identify Homogenous Group

Filter Pore Size (Air Samples): ☑ 0.8µm ☐ 0.45µm

Samplers Name: Reggie Sampson **Samplers Signature:** Reggie Sampson

Sample #	Sample Description	Volume/Area (Air) / HA # (Bulk)	Date/Time Sampled
LC-01-01	Roof Flashing Around AC Lower Roof		
LC-02-01	Roof Flashing Around AC Lower Roof		
LC-03-02	Roof Flashing on Parapet Wall Lower Roof		
LC-04-02	Roof Flashing on Parapet Wall Lower Roof		
LC-05	Roofing Material Lower Roof		

Client Sample # (s): LC-01 - LC-22 **Total # of Samples:** 22

Relinquished (Client): Trey Hess **Date:** 1/12/2021 **Time:** 2PM

Received (Lab): [illegible] **Date:** 1/13/21 **Time:** 9:40 am

Comments/Special Instructions:

Page 1 of 2 pages

(R) 7726 0631 5129
2 of 2

Controlled Document – Asbestos COC – R10 – 05/09/2018

OrderID: 252100119

EMSL ANALYTICAL, INC.
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Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*): 0119

PHONE:
FAX:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
LC-06	Roofing Material Lower Roof	1/11/2021	
LC-07-03	Roof Flashing Lower Roof		
LC-08-03	Roof Flashing Lower Roof		
LC-09	Stucco Cladding Front of Building		
LC-10	Stucco Cladding Front of Building		
LC-11-05	Flashing Parapet Wall upper Roof		
LC-12-05	Flashing Parapet Wall upper Roof		
LC-13	Felt Paper under CAP upper Roof		
LC-14	Felt Paper unde CAP upper Roof		
LC-15	AC Duct GASket		
LC-16	AC Duct GASket		
LC-17	Black MASTic on Wood Around Column		
LC-18	Black MASTic on Wood Around Column		
L-C-19	Yellow Glue on Wood Around Column		
LC-20	Yellow Glue on Wood Around Column		
LC-21	Ceramic Grout on WALL		
LC-22	Ceramic Grout on WALL		

***Comments/Special Instructions:**

EMSL Analytical, Inc.

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Tel/Fax: (225) 755-1920 / (225) 755-1989

http://www.EMSL.com / batonrougelab@emsl.com

EMSL Order:	251904772
Customer ID:	PPMC29
Customer PO:	
Project ID:	

Attention:	Blake Sanders	**Phone:**	(601) 956-8233
	PPM Consultants	**Fax:**	
	289 Commerce Park Drive	**Received Date:**	08/01/2019 9:45 AM
	Suite D	**Analysis Date:**	08/07/2019 - 08/08/2019
	Ridgeland, MS 39157	**Collected Date:**	07/24/2019
Project:	30060101 TO-09		

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
LC-01-01-Floor Tile *251904772-0001*	12x12 Floor Tile w/Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-01-01-Mastic *251904772-0001A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
LC-01-02-Floor Tile *251904772-0002*	12x12 Floor Tile w/Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-01-02-Mastic *251904772-0002A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-02-01-Floor Tile *251904772-0003*	12x12 Floor Tile w/Mastic	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-02-01-Mastic *251904772-0003A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
LC-02-02-Floor Tile *251904772-0004*	12x12 Floor Tile w/Mastic	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-02-02-Mastic *251904772-0004A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-03-01-Floor Tile *251904772-0005*	12x12 Floor Tile w/Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-03-01-Mastic *251904772-0005A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
LC-03-02-Floor Tile *251904772-0006*	12x12 Floor Tile w/Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-03-02-Mastic *251904772-0006A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-04-01-Floor Tile *251904772-0007*	12x12 Floor Tile w/Mastic	Gray Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
LC-04-01-Mastic *251904772-0007A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
LC-04-02-Floor Tile *251904772-0008*	12x12 Floor Tile w/Mastic	Gray Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
LC-04-02-Mastic *251904772-0008A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)

Initial report from: 08/08/2019 16:29:49

EMSL Analytical, Inc.
18369 Petroleum Drive Baton Rouge, LA 70809
Tel/Fax: (225) 755-1920 / (225) 755-1989
http://www.EMSL.com / batonrougelab@emsl.com

EMSL Order: 251904772
Customer ID: PPMC29
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
LC-05-01-Floor Tile *251904772-0009*	12x12 Floor Tile w/Mastic	White Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
LC-05-01-Mastic *251904772-0009A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
LC-05-02-Floor Tile *251904772-0010*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-05-02-Mastic *251904772-0010A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-06-01-Floor Tile *251904772-0011*	12x12 Floor Tile w/Mastic	Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-06-01-Mastic *251904772-0011A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
LC-06-02-Floor Tile *251904772-0012*	12x12 Floor Tile w/Mastic	Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-06-02-Mastic *251904772-0012A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-07-01-Floor Tile *251904772-0013*	12x12 Floor Tile w/Mastic	Beige Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
LC-07-01-Mastic *251904772-0013A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
LC-07-02-Floor Tile *251904772-0014*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-07-02-Mastic *251904772-0014A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-08-01 *251904772-0015*	24x48 Ceiling Tile	White/Beige Fibrous Homogeneous	40% Cellulose 20% Glass	40% Non-fibrous (Other)	None Detected
LC-08-02 *251904772-0016*	24x48 Ceiling Tile	White/Beige Fibrous Homogeneous	40% Cellulose 20% Glass	40% Non-fibrous (Other)	None Detected
LC-09-01 *251904772-0017*	Drywall	Gray Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
LC-09-02 *251904772-0018*	Drywall	Gray Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
LC-10-01 *251904772-0019*	Window Caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
LC-10-02 *251904772-0020*	Window Caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
LC-11-01-Floor Tile *251904772-0021*	12x12 Floor Tile w/Mastic	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 08/08/2019 16:29:49

EMSL Analytical, Inc.
18369 Petroleum Drive Baton Rouge, LA 70809
Tel/Fax: (225) 755-1920 / (225) 755-1989
http://www.EMSL.com / batonrougelab@emsl.com

EMSL Order: 251904772
Customer ID: PPMC29
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
LC-11-01-Mastic *251904772-0021A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
LC-11-02-Floor Tile *251904772-0022*	12x12 Floor Tile w/Mastic	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-11-02-Mastic *251904772-0022A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-12-01-Adhesive *251904772-0023*	12x12 Floor Tile w/Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-12-01-Floor Tile *251904772-0023A*	12x12 Floor Tile w/Mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-12-01-Mastic *251904772-0023B*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
LC-12-02-Adhesive *251904772-0024*	12x12 Floor Tile w/Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-12-02-Floor Tile *251904772-0024A*	12x12 Floor Tile w/Mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-12-02-Mastic *251904772-0024B*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-13-01 *251904772-0025*	Roof Flashing	Black Non-Fibrous Homogeneous		88% Non-fibrous (Other)	12% Chrysotile
LC-13-02 *251904772-0026*	Roof Flashing				Positive Stop (Not Analyzed)
LC-14-01 *251904772-0027*	Side Roofing	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
LC-14-02 *251904772-0028*	Side Roofing	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
LC-15-01 *251904772-0029*	Corrugated Roofing	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
LC-15-02 *251904772-0030*	Corrugated Roofing	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
LC-16-01 *251904772-0031*	Fireproofing	Gray Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
LC-16-02 *251904772-0032*	Fireproofing				Positive Stop (Not Analyzed)
LC-16-03 *251904772-0033*	Fireproofing				Positive Stop (Not Analyzed)
LC-16-04 *251904772-0034*	Fireproofing				Positive Stop (Not Analyzed)

Initial report from: 08/08/2019 16:29:49

EMSL Analytical, Inc.
18369 Petroleum Drive Baton Rouge, LA 70809
Tel/Fax: (225) 755-1920 / (225) 755-1989
http://www.EMSL.com / batonrougelab@emsl.com

EMSL Order: 251904772
Customer ID: PPMC29
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
LC-16-05 *251904772-0035*	Fireproofing				Positive Stop (Not Analyzed)
LC-16-06 *251904772-0036*	Fireproofing				Positive Stop (Not Analyzed)
LC-16-07 *251904772-0037*	Fireproofing				Positive Stop (Not Analyzed)
LC-17-01-Wrap *251904772-0038*	Water Heater Insulation	Tan Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
LC-17-01-Insulation *251904772-0038A*	Water Heater Insulation	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-17-02-Wrap *251904772-0039*	Water Heater Insulation	Tan Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
LC-17-02-Insulation *251904772-0039A*	Water Heater Insulation	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-17-03-Wrap *251904772-0040*	Water Heater Insulation	Tan Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
LC-17-03-Insulation *251904772-0040A*	Water Heater Insulation	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-18-01-Floor Tile *251904772-0041*	Upstairs 12x12 Floor Tile w/Mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-18-01-Mastic *251904772-0041A*	Upstairs 12x12 Floor Tile w/Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-18-02-Floor Tile *251904772-0042*	Upstairs 12x12 Floor Tile w/Mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-18-02-Mastic *251904772-0042A*	Upstairs 12x12 Floor Tile w/Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FS-01-01-Floor Tile *251904772-0043*	12x12 Floor Tile w/Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FS-01-01-Mastic *251904772-0043A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
FS-01-02-Floor Tile *251904772-0044*	12x12 Floor Tile w/Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FS-01-02-Mastic *251904772-0044A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
FS-02-01-Floor Tile *251904772-0045*	12x12 Floor Tile w/Mastic	Gray Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
FS-02-01-Mastic *251904772-0045A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile

Initial report from: 08/08/2019 16:29:49

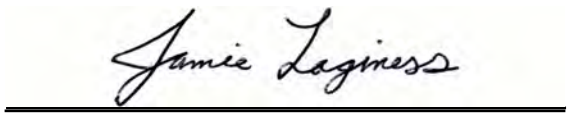
EMSL Analytical, Inc.
18369 Petroleum Drive Baton Rouge, LA 70809
Tel/Fax: (225) 755-1920 / (225) 755-1989
http://www.EMSL.com / batonrougelab@emsl.com

EMSL Order:	251904772
Customer ID:	PPMC29
Customer PO:	
Project ID:	

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
FS-02-02-Floor Tile *251904772-0046*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
FS-02-02-Mastic *251904772-0046A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
FS-03-01 *251904772-0047*	24x48 Ceiling Tile	Gray Fibrous Homogeneous	40% Cellulose 30% Glass	30% Non-fibrous (Other)	None Detected
FS-03-02 *251904772-0048*	24x48 Ceiling Tile	Gray Fibrous Homogeneous	40% Cellulose 30% Glass	30% Non-fibrous (Other)	None Detected
FS-04-01 *251904772-0049*	Drywall	Beige Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
FS-04-02 *251904772-0050*	Drywall	Beige Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected

Analyst(s)
Jurnee West (58)



Jamie Laginess, Laboratory Operations Manager
or Other Approved Signatory

Initial report from: 08/08/2019 16:29:49

OrderID: 251904772

EMSL ANALYTICAL, INC.
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Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 4772

PHONE:
FAX:

Company Name: PPM Consultants		EMSL Customer ID:	
Street: 289 Commerce Park Drive, Suite D.		City: Ridgeland	State/Province: MS
Zip/Postal Code: 39157	Country: US	Telephone #: 601-956-8233	Fax #:
Report To (Name): Blake Sanders		Please Provide Results: ☐ Fax ☑ Email	
Email Address: jacksonlab@ppmco.com		Purchase Order:	
Project Name/Number: 30060101 TO-09		EMSL Project ID *(Internal Use Only)*:	
U.S. State Samples Taken: Mississippi		CT Samples: ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

EMSL-Bill to: ☑ Same ☐ Different - If Bill to Is Different note Instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ☒ 1 Week | ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air ☐ Check if samples are from NY
☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
☑ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NYS 198.8 SOF-V
☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
☐ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP
☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
☐ PLM EPA 600/R-93/116 with milling prep (<1%)
☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)
☐ TEM Qualitative via Filtration Prep
☐ TEM Qualitative via Drop Mount Prep
☐ Cincinnati Method EPA 600/R-04/004 – PLM/TEM (BC only)

Other:
☐

☑ Check For Positive Stop – Clearly Identify Homogenous Group

Filter Pore Size (Air Samples): ☒ 0.8µm ☐ 0.45µm

Samplers Name: Blake Sanders

Samplers Signature:

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
LC-01-01	Tan 12x12 Floor Tile w/Mastic	01	07/24/2019
LC-01-02	Tan 12x12 Floor Tile w/Mastic	01	07/24/2019
LC-02-01	Red 12x12 Floor Tile w/Mastic	02	07/24/2019
LC-02-02	Red 12x12 Floor Tile w/Mastic	02	07/24/2019
LC-03-01	Pink 12x12 Floor Tile w/Mastic	03	07/24/2019

Client Sample # (s): LC-01-01 - FS-04-02 Total # of Samples: 50

Relinquished (Client): PPM Date: 07/31/2019 Time: 09:04

Received (Lab): K. Brown Date: 8/01/19 Time: 9:45am

Comments/Special Instructions:

Page 1 of 3 pages

(R) 7758 7908 9453
1 of 1

Controlled Document – Asbestos COC – R10 – 05/09/2016

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 4772

PHONE:
FAX:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
LC-03-02	Pink 12x12 Floor Tile w/Mastic	03	07/24/2019
LC-04-01	Gray 12x12 Floor Tile w/Mastic	04	07/24/2019
LC-04-02	Gray 12x12 Floor Tile w/Mastic	04	07/24/2019
LC-05-01	White 12x12 Floor Tile w/Mastic	05	07/24/2019
LC-05-02	White 12x12 Floor Tile w/Mastic	05	07/24/2019
LC-06-01	Yellow 12x12 Floor Tile w/Mastic	06	07/24/2019
LC-06-02	Yellow 12x12 Floor Tile w/Mastic	06	07/24/2019
LC-07-01	Light Pink 12x12 Floor Tile w/Mastic	07	07/24/2019
LC-07-02	Light Pink 12x12 Floor Tile w/Mastic	07	07/24/2019
LC-08-01	24x48 Ceiling Tile	08	07/24/2019
LC-08-02	24x48 Ceiling Tile	08	07/24/2019
LC-09-01	Drywall	09	07/24/2019
LC-09-02	Drywall	09	07/24/2019
LC-10-01	Window Caulk	10	07/24/2019
LC-10-02	Window Caulk	10	07/24/2019
LC-11-01	Green 12x12 Floor Tile w/Mastic	11	07/24/2019
LC-11-02	Green 12x12 Floor Tile w/Mastic	11	07/24/2019
LC-12-01	Dark Gray 12x12 Floor Tile w/Mastic	12	07/24/2019
LC-12-02	Dark Gray 12x12 Floor Tile w/Mastic	12	07/24/2019
LC-13-01	Roof Flashing	13	07/24/2019
LC-13-02	Roof Flashing	13	07/24/2019
LC-14-01	Side Roofing	14	07/24/2019
LC-14-02	Side Roofing	14	07/24/2019

*Comments/Special Instructions:

Page 2 of 3 pages

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 4772

PHONE:
FAX.

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
LC-15-01	Corrugated Roofing	15	07/24/2019
LC-15-02	Corrugated Roofing	15	07/24/2019
LC-16-01	Fireproofing	16	07/24/2019
LC-16-02	Fireproofing	16	07/24/2019
LC-16-03	Fireproofing	16	07/24/2019
LC-16-04	Fireproofing	16	07/24/2019
LC-16-05	Fireproofing	16	07/24/2019
LC-16-06	Fireproofing	16	07/24/2019
LC-16-07	Fireproofing	16	07/24/2019
LC-17-01	Water Heater Insulation	17	07/24/2019
LC-17-02	Water Heater Insulation	17	07/24/2019
LC-17-03	Water Heater Insulation	17	07/24/2019
LC-18-01	Upstairs 12x12 Floor Tile w/Mastic	18	07/24/2019
LC-18-02	Upstairs 12x12 Floor Tile w/Mastic	18	07/24/2019
FS-01-01	Red 12x12 Floor Tile w/Mastic	01	07/24/2019
FS-01-02	Red 12x12 Floor Tile w/Mastic	01	07/24/2019
FS-02-01	Tan 12x12 Floor Tile w/Mastic	02	07/24/2019
FS-02-02	Tan 12x12 Floor Tile w/Mastic	02	07/24/2019
FS-03-01	24x48 Ceiling Tile	03	07/24/2019
FS-03-02	24x48 Ceiling Tile	03	07/24/2019
FS-04-01	Drywall	04	07/24/2019
FS-04-02	Drywall	04	07/24/2019

***Comments/Special Instructions:**

APPENDIX D – MDEQ ASBESTOS NOTIFICATION FORM

MISSISSIPPI ASBESTOS DEMOLITION/RENOVATION NOTIFICATION FORM

Mail notification to: MDEQ Asbestos Section, 515 E. Amite Street, Jackson, MS 39201

Operator Project #	Postmark	Date Received (MDEQ use only)	Notification # (MDEQ use only)

I. Type of Notification (O=Original R=Revised C=Canceled A= Annual)

II. TYPE OF OPERATION (D=Demo O= Ordered Demo R=Renovation E=Emer. Renovation)

III. FACILITY DESCRIPTION (Include building name, number and floor or room number)

Bldg. Name:		
Address		
City:	State:	Zip:
Site Location:		Tel:
Building Size	# of Floors:	Age in Years:
Present Use:	Prior Use:	

IV. FACILITY INFORMATION (Identify owner, removal contractor, and other operator)

OWNER NAME:		
Address:		
City:	State:	Zip:
Contact:		Tel:
REMOVAL CONTRACTOR		
Address:		
City:	State:	Zip:
Contact:		Tel:
OTHER OPERATOR:		
Address:		
City:	State:	Zip:
Contact:		

V. IS ASBESTOS PRESENT? (Yes/No)

VI. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL (Include inspector name and date of inspection):

VII. APPROXIMATE AMOUNT OF ASBESTOS INCLUDING:	RACM To Be Removed	Nonfriable Asbestos Material Not To Be Removed		Indicate Unit of Measurement Below	
1. Regulated ACM to be Removed **2.** Category I ACM Not Removed **3.** Category II ACM Not Removed		Category I	Category II	UNIT	
Pipes				LnFt:	Ln M:
Surface Area				SqFt:	Sq M:
Vol RACM Off Facility Component				CuFt:	Cu M:

VIII. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY) Start: Complete:

IX. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY) Start: Complete:

Simplifying the Complex

ppmco.com

PROJECT SPECIFICATIONS FOR ASBESTOS ABATEMENT PROJECT

FORMER LABCORP BUILDING
606 22ND AVENUE
MERIDIAN, MISSISSIPPI

PPM PROJECT NO. 30060104-02

JANUARY 28, 2021

PPM CONSULTANTS

PROJECT SPECIFICATIONS FOR ASBESTOS ABATEMENT PROJECT

FOR

FORMER LABCORP BUILDING
606 22ND AVENUE
MERIDIAN, MISSISSIPPI

PREPARED FOR:

LAUDERDALE COUNTY, MISSISSIPPI
410 CONSTITUTION AVENUE, FL 11
MERIDIAN, MISSISSIPPI 39301

PPM PROJECT NO. 30060104-02

JANUARY 28, 2021

PREPARED BY:

JERE (TREY) HESS. P.E.
ASBESTOS PROJECT DESIGNER

REVIEWED BY:

ANNIE MCILWAIN, P.E.
DISTRICT MANAGER

PPM CONSULTANTS, INC.
289 COMMERCE PARK DRIVE, SUITE D
RIDGELAND, MISSISSIPPI 39157
(601) 956-8233

TABLE OF CONTENTS

SECTION A – ASBESTOS ABATEMENT SCOPE OF WORK

PART 1. GENERAL

1.1 THE SITE

Lauderdale County, Mississippi is abating the former LabCorp Building for future renovations. The LabCorp building is located at 606 22nd Avenue in Meridian, Mississippi. Prior to renovation, all asbestos-containing materials (ACM), as identified in prior asbestos-containing materials survey reports (attached) for the LabCorp building, must be abated. Approximate locations and quantities of materials to be removed are included in the Survey reports, of which copies are attached. The exact limits of the Work are the sole responsibility of the Contractor, and they shall verify all conditions, quantities, and situations adjoining the Work.

1.2 SCOPE OF WORK

1.2.1 Asbestos

This contract covers the furnishing of all labor and materials required for removal of all ACM, identified in the asbestos survey reports. Locations and descriptions of the ACM are included in the attached asbestos survey reports. Work in this contract includes the following:

- All labor and materials necessary to remove and dispose of all ACM from the building. Refer to **Section B, Asbestos Removal** for work particulars.
- Contractor shall submit a written project approach for review and approval by the Engineer.
- All labor and materials necessary to remove and dispose of all roofing materials. Refer to **Section C, Asbestos Removal – Roofing Materials** for additional work particulars.

1.2.2 Schedule

Schedule of Work

The Contractor is to start work on the LabCorp building when given a notice to proceed from the owner or his representative. Asbestos Abatement activities requiring daily air monitoring shall not exceed 55 calendar days.

It is anticipated that Lauderdale County will act on the approval of the recommended Contractor in a timely fashion. Upon approval, the successful Contractor will be notified and a contract for the work will be drafted and signed by the Owner and Contractor. The Contractor will accomplish the required "Notification" to all Controlling agencies within the required time parameters prior to initiating work on this project.

SECTION B – ASBESTOS REMOVAL

PART 1. GENERAL

1.1 SCOPE

This Section covers removal of ACM as described in **Section A, Asbestos Abatement Scope of Work**. This project covers the entire removal and appropriate disposition of all asbestos-containing materials from the designated areas of the LabCorp building at 606 22nd Avenue in Meridian, MS. The contractor's personnel will remove all lightweight, non-fixed items from the work area.

1.2 DESCRIPTION OF WORK

The work specified herein shall be the removal of ACM (detailed in attached asbestos survey reports) by competent persons trained, knowledgeable and qualified in the techniques of abatement, handling, and disposal of asbestos-containing and asbestos-contaminated materials and the subsequent cleaning of contaminated areas, who comply with applicable Federal, State, and Local regulations and are capable of and willing to perform the work of this Contract.

The Contractor shall supply all labor, materials services, insurance, permits and equipment necessary to carry out the work in accordance with all applicable Federal, State and Local regulations and these specifications.

1.2.1 Base Bid – Asbestos Abatement

All asbestos work on this project shall be performed by an asbestos abatement contractor (AAC) who is licensed by the Mississippi Department of Environmental Quality (MDEQ).

The Contractor is to remove and dispose of all ACM listed below and detailed in attached asbestos survey reports. The Contractor will be responsible for removing ACM under or behind fixed items such as cabinets, bookshelves, plumbing fixtures, etc. The Contractor will be allowed to demolish items to access the ACM beneath/behind these items.

Estimated Quantities

The following quantities are estimates only and not to be relied upon for bidding purposes. The Contractor is responsible for obtaining his own measurements prior to bidding. Accordingly, minor variations (+/- 5%) in quantities of ACM within the regulated area are considered as having no impact on contract price and time requirements of this contract. Where additional work is required beyond the above variation, the contractor shall provide unit prices for newly discovered ACM and those prices shall be used for additional work required under the contract. Please also refer to attached asbestos survey reports for locations and estimated quantities of ACM.

ACM	Amount	Location
Floor tile with Mastic	25,000 square feet	Main floor and mezzanine. See Figure 1 for exact locations.
Roof Flashing	1,500 linear feet	Roof
Sprayed on Fireproofing	12,300 square feet	Structural I-beams and top 4 feet of structural columns. Assumed 4 feet of overspray in calculated dimensions to account for fireproofing sprayed on associated joists and/or ceiling. See Figure 1.
Black mastic	1,700 linear feet	On wooden surrounds for 17 columns. See **Figure 1**.

1.3 RESPIRATORY PROTECTION

Workers shall wear respiratory protection during all activities which may disturb ACM. The procedure for the selection and use of respirators must follow OSHA mandated requirements, and minimum respiratory protection shall follow OSHA requirements. No employee shall be allowed to wear a respirator unless a physician or other licensed healthcare professional has provided a written determination they are medically qualified to wear the class of respirator to be used. All personnel wearing respirators shall have a current qualitative/quantitative fit test which was conducted in accordance with OSHA requirements. **No employee shall be allowed to wear a respirator unless a physician or other licensed healthcare professional has provided a written determination they are medically qualified to wear the class of respirator to be used.**

1.4 DEFINITIONS

A. *Abatement:* Procedures to decrease or eliminate the source of fiber release from asbestos-containing building materials. Procedures include encapsulation, enclosure, and removal.

B. *Air Filtration Equipment:* A portable local filtration system equipped with HEPA filtration and capable of maintaining a constant, low velocity flow to filter and trap contamination out of the air within the work area. This equipment also establishes a reduced pressure within the work area.

C. *Airlock:* System for permitting ingress and egress without permitting air movement between a contaminated area and an uncontaminated area, typically consisting of two curtained doorways at least three feet apart.

D. *Airlock Doorway:* A device to allow ingress and egress from one room to another while permitting minimal air movement between the rooms, typically constructed by placing two or three overlapping sheets of plastic over an existing or temporarily framed doorway, securing each along the top of the doorway, securing the vertical edge of one sheet along one vertical side of the doorway, and securing the vertical edge of the other sheet along the opposite vertical side of the doorway; or by using a rigid gasketed door and HEPA filter vents.

E. *Air Cell:* Insulation normally used on pipes and duct work that is comprised of corrugated cardboard which is frequently comprised of asbestos combined with cellulose or refractory binders.

F. *Air Monitoring:* The process of measuring the fiber and/or asbestos content of a specific volume of air in a stated period of time. Two common types of air monitoring for asbestos abatement are by phase contrast microscopy (PCM) or transmission electron microscopy (TEM).

G. *Amended Water:* Water to which a surfactant has been added.

H. *Asbestos:* The asbestiform varieties of serpentine (chrysotile, antinolite), riebeckite (crocidolite), commingtonite-grunerite (amosite), anthophylite, and actinolite-tremolite. For purposes of determining respiratory and worker protection, both the asbestiform and non-asbestiform varieties of the above minerals and any of these materials that have been chemically treated and/or altered shall be considered as asbestos.

I. *Asbestos-Containing Building Material (ACBM):* Surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members or other parts of a building.

J. *Asbestos-Containing Material (ACM):* Any material containing more than 1 percent of asbestos of any type or mixture of types.

K. *Authorized Person or Visitor:* The building owners, or his authorized representative, or any representative of a regulatory or other agency having jurisdiction over the Project.

L. *Clean Room:* An uncontaminated area or room, which is a part of the personnel decontamination unit with provisions for storage of worker's street clothes and protective equipment.

M. *Critical Barrier:* Seal applied to openings connecting the abatement area with adjacent spaces that will not be included in the containment. Critical barriers shall not be exposed to the gross removal environment. Examples of openings requiring critical barriers include, but are not limited to: HVAC vents and diffusers; doorways; windows; air plenums; and floor, wall, and ceiling penetrations. Critical barriers shall be semi-rigid and sealed with at least one layer of 6-mil plastic sheeting.

N. *Decontamination Unit:* A series of connected rooms, with airlock doorways between any two adjacent rooms, for the decontamination of workers and of materials and equipment. A decontamination facility always contains at least one airlock.

O. *Encapsulation:* The sealing of asbestos surfaces involving application of a material (encapsulant) that will envelop or coat the fiber matrix and eliminate fiber fallout and protect against impact damage.

P. *Enclosure:* Procedures necessary to completely enclose material containing asbestos behind airtight, impermeable, permanent barriers.

Q. *Equipment Room:* A contaminated area or room which is part of the personnel decontamination unit with provisions for storage of contaminated clothing and equipment.

R. *Fixed Object:* A unit of equipment or furniture in the Work area which cannot be removed from the Work area.

S. *Glovebag:* A sack (typically constructed of 6-mil transparent polyethylene or polyvinylchloride plastic) with inward projecting long sleeve gloves, which is

designed to enclose an object from which an asbestos-containing material is to be removed.

T. *HEPA Filter:* A high efficiency particulate air (HEPA) filter capable of trapping and retaining 99.97 percent of particles (asbestos fibers) greater than 0.3 micrometers in mass median aerodynamic equivalent diameter.

U. *HEPA Vacuum Equipment:* Vacuuming equipment with a HEPA filter system.

V. *Log Book:* A notebook or other book containing essential project data and daily project information and a daily project diary. This book is kept on the Project site at all times.

W. *Mini-Enclosure:* A method with limited applications for removing small amounts of friable asbestos-containing material typical for small-scale, short duration type projects.

X. *NESHAP:* National Emissions Standard for Hazardous Air Pollutants, 40 CFR Part 61.

Y. *N.E.C.:* National Electrical Code.

Z. *NIOSH:* National Institute for Occupational Safety and Health.

AA. *Non-Friable Asbestos-Containing Material:* Material that contains more than one percent (1%) asbestos and that cannot be crumbled, pulverized, or reduced to powder by hand pressure when dry. NESHAP Regulations divide Non-Friable materials into the following two groups:

BB. *Category I Non-Friable Asbestos-Containing Material* includes asbestos-containing packings and gaskets, asbestos-containing resilient flooring materials, and asbestos-containing asphaltic roofing products.

CC. *Category II Non-Friable Asbestos Containing Material* includes any asbestos-containing material other than Category I Non-Friable materials that, when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure.

DD. *OSHA:* Occupational Safety and Health Administration.

EE. *PCM:* Phase contrast microscopy is used to determine the level of fibers in the air. Procedures are outlined in NIOSH Method 7400, Revision No. 3.

FF. *Personnel Decontamination Unit:* That portion of a containment work area designed for controlled passage of workers, and other personnel and authorized visitors, typically consisting of a clean room a shower room, and an equipment room.

GG. *Personal Monitoring:* Sampling of the asbestos fiber concentrations within the breathing zone of an employee.

HH. *PPE:* Personal Protective Equipment.

II. *Protection Factor:* The ratio of the ambient concentration of an airborne substance to the concentration of the substance inside the respirator at the breathing zone of the wearer. The protection factor is a measure of the degree of protection provided by a respirator to the wearer.

JJ. *Regulated Asbestos-Containing Material (RACM):* includes all Friable asbestos-containing materials; Category I Non-Friable asbestos-containing material that will be or has been subjected to sanding, grinding, cutting, or abrading; and Category II Non- Friable asbestos-containing material that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

KK. *Removal:* The act of removing asbestos-containing or contaminated materials from the structure under properly controlled conditions to a suitable disposal site.

LL. *Respirator:* A devise designed to protect the wearer from the inhalation of harmful atmospheres.

MM. *Shower Room:* A room between the clean room and the equipment room in the personnel decontamination unit with hot and cold or warm running water and suitable arranged for complete showering during decontamination. The shower room comprises an airlock between the contaminated and ambient clean area.

NN. *Surfactant:* A chemical wetting agent added to water to improve penetration.

OO. *TEM:* Transmission electron microscopy is used to determine the levels of structures of asbestos in the air. Guidelines are set forth in the AHERA regulations.

PP. *Time Weighted average (TWA):* The average concentration of a contaminant in air during a specific time period.

QQ. *Wet Cleaning:* The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning utensils that have been dampened with amended water or diluted removal encapsulant and afterwards thoroughly decontaminated or disposed of as asbestos-contaminated waste.

RR. *Work Area:* The area where asbestos-related work or removal operations are performed and which is isolated to prevent the spread of asbestos dust, fibers or debris, and to prevent entry by unauthorized personnel.

1.5 REGULATIONS

A. General Applicability of Regulations: Except to the extent that more explicit or more stringent requirements are written directly in the contract documents, all applicable codes, regulations, statutes, laws, and rules have the same force and effect (and are made a part of the contract documents by referenced) as if copies directly into the contract documents, or as if published copies are bound herewith.

B. Contractor Responsibility: The Contractor shall assume full responsibility and liability for the compliance with all applicable Federal, State, and local regulations pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site, and persons occupying areas adjacent to the site. The Contractor is responsible for providing medical examinations and maintaining medical records of personnel as required by the applicable Federal, State, and local regulations. The Contractor shall hold the Owner and the Owner's representatives harmless for failure to comply with any applicable work, hauling, disposal, safety, health or other regulation on the part of himself, his employees, or his subcontractors.

C. Federal Requirements that govern asbestos abatement work or hauling and disposal of asbestos waste materials include, but are not limited to the following:

1. U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) including, but not limited to:
   a. Occupational Exposure to Asbestos, Tremolite, Anthophyllite, and Actinolite; Final Rules 29 CFR 1910.1001 and 29 CFR 1926.58.
   b. Respiratory Protection – 29 CFR 1910.134
   c. Access to Employee Exposure and Medical Records – 29 CFR 1910.20
   d. Hazard Communication – 29 CFR 1910.1200 and 29 CFR 1926.59
2. U.S. Environmental Protection Agency (EPA) including but not limited to:
   a. NESHAP – 40 CFR 61
   b. Identification and Listing of Hazardous Wastes – 40 CFR 261

3. U.S. Department of Transportation (DOT) including but not limited to:
   a. Shippers – Hazardous Materials Regulations – 49 CFR 171 and 172

D. State and Local Requirements which govern asbestos abatement work or hauling and disposal of asbestos waste materials include but are not limited to the following:

1. Mississippi Department of Environmental Quality, Air Division.
2. Mississippi Department of Environmental Quality, Waste Division.

1.6 DECONTAMINATION PROCEDURES

Each worker and authorized visitor shall, upon entering a work area, remove street clothes in the Clean Room, don a respirator, and clean protective clothing prior to entering the Equipment Room or the Work area enclosure.

All workers and authorized visitors shall, each time they leave the Work area; remove gross contamination from clothing prior to leaving the Work area; proceed to the Equipment Room and remove all clothing except respirators; still wearing the respirator proceed to the showers; clean the outside of the respirator with soap and water while showering; remove the respirator, thoroughly shampoo and wash themselves.

Following the showering and drying off, each worker and authorized visitor shall proceed directly to the Clean Room and dress in clean clothes. Before re-entering the Work area from the Clean Room, each worker and authorized visitor shall don a clean respirator and dress in clean protective clothing.

Contaminated work footwear can be stored in the Equipment Room when not in use in the Work area. Upon completion of asbestos abatement, dispose of footwear as contaminated waste.

Workers removing waste containers from the equipment decontamination enclosure shall enter the holding area from outside wearing a respirator and dressed in clean disposable coveralls. No worker shall use this system as a means to leave or enter the Work area.

Workers shall not eat, drink, smoke, or chew gum or tobacco while in the Work area or Clean Room.

Workers shall be fully protected with respirators and protective clothing from the time of first disturbance of asbestos-containing or contaminated materials prior to commencing actual asbestos abatement and until final cleanup and final clearance air monitoring is completed.

1.7 EQUIPMENT REMOVAL PROCEDURES

In the Work Area, clean surfaces of contaminated containers and equipment thoroughly by wet wiping before moving such items into the equipment room for final cleaning through the Equipment Room.

During work activities requiring decontamination procedures, the Contractor shall provide a means of communication for the workers inside the Work Area without requiring personnel to enter or leave the Work Area. This method of communications shall be a two-way radio, localized wire-connected telephone, or similar system. This communication system shall remain intact until final air monitoring clearance is achieved. Then all equipment shall be wiped down, HEPA vacuumed, or disposed of as ACM.

Adequate shower facilities shall be provided by the Contractor. An employee leaving the Work Area shall follow all decontamination procedures necessary or as described herein.

1.8 PERSONNEL

The Contractor shall have a job superintendent present at all times while work on this Contract is in progress.

The Project Superintendent shall be thoroughly familiar and experienced with asbestos removal and related work and shall be familiar with and shall enforce the use of all safety procedures and equipment. They should be knowledgeable of all EPA, OSHA, and NIOSH requirements and guidelines. They shall be trained in the proper use of all personal protection and safety equipment including, but not limited to, air purification and respiratory systems.

In addition to the Superintendent, the Contractor shall furnish one (1) or more foremen who are familiar and experienced with asbestos removal and its related work, safety procedures, and equipment.

A. It is a requirement of this Specification that the superintendent and/or one or more of the Contractor's foremen be inside the Work area at all times while work is in progress.

B. All superintendents and foremen shall have been trained by attending a five-day Supervision of Asbestos Abatement training course and have satisfactorily passed an examination following the training program. Only EPA approved training programs will be accepted.

C. Workers shall, at a minimum, receive a 32-hour training program by an approved training provider. Approval and course content shall be outlined in the EPA Model Accreditation Plan. In addition, workers shall attend an approved annual 8-hour refresher course. Workers shall also have annual certificates, if required, for the locale of the Project.

PART 2. PREPARATION

2.1 PREPARATION

A. Separation of work areas from adjacent areas of the facility.

1. Separate parts of the building which may be required to remain in use from parts of the building that will undergo asbestos removal, by means of airtight barriers, constructed as follows:

   a. Build suitable rigid partitions and apply 3/8 inch minimum thickness sheathing on work side, if necessary.

   b. Cover both sides of partition with double-layer of plastic sheet with joints staggered and sealed with tape. Edges of partition at floor, walls, and ceiling shall be caulked airtight.

2. Shut down electric power which serves the Work area. Provide temporary power and lighting and ensure safe installation of temporary power sources and equipment per applicable electrical code requirements. All power in the Work Area shall be on ground fault interrupter circuits.

3. Pre-clean fixed objects within the work area, by HEPA vacuuming and/or wet cleaning as appropriate. Cover the objects with a minimum of 6 mil plastic sheeting and seal with tape.

4. Pre-clean the work area using HEPA vacuuming or wet cleaning methods as appropriate. Do not use methods that raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters.

B. Preparation of a Full Containment Area

1. Cover floor and wall surfaces with plastic sheeting sealed with tape. Use a minimum of two layers of 6 mil plastic sheeting on floors and two layers of 4 mil plastic sheeting on walls. Cover floors first and extend at least 12 inches up on walls, then cover walls with plastic sheeting to the floor level. The walls should overlap the floor material by a minimum of 12 inches.

2. Shut down and isolate heating, cooling, and ventilating air systems to prevent contamination and fiber dispersal. Physically blank off all supply and return air ductwork which leads to and from an isolated work area.

3. Seal off all openings, including but not limited to windows, corridors, doorways, skylights, ducts, grills, diffusers, and any other penetrations of the Work areas, with plastic sheeting (minimum of 4 mils thick) sealed with tape.

C. Pre-clean work area

1. Clean all moveable objects within the Work area using HEPA vacuum equipment and/or wet cleaning methods. Remove these objects from the Work area to a designated temporary storage location.

   The second layer of floor sheeting may be black or dark in color. All joints in the plastic sheeting shall have a minimum of 12 inches of overlap and shall be securely sealed with tape to prevent leakage of air and water.

2. Maintain emergency and fire exits from the Work areas, or establish alternative exits satisfactory to fire officials.

3. Pressure Differential and Monitoring:

   All full containment areas shall maintain a pressure differential of 0.02 inches of water between the work area and the unrestricted side of the ambient area. This shall commence at the beginning of any work that could possibly disturb ACM until the passing of final clearance sampling. Manometer/pressure reading instruments are to be inclined manometer type capable of 0-3" wg (0.1" wg increments) and shall be installed at representative locations at critical barriers. A continuous readout device/strip chart recorder shall be provided for each work area. Manometers shall also be used to monitor the pressure of the work area vs. the clean room of the decontamination chamber.

The Project Monitor shall document the manometer readings at least every four hours. This documentation of continuous readings from the strip chart recorder shall be submitted with daily monitoring reports. All manometers and strip chart recorder shall be installed and operational for as long as the area is under containment at each work area to provide continuous documentation of pressure differential.

4. All filtered air shall be exhausted outside the building to the ambient atmosphere. If this is not possible, then filtered air shall pass through, and additional HEPA filtration device and exhaust to an area of the building approved by the Owner's representative.

D. Decontamination Units

Build suitable decontamination units described herein. In all cases, access between contaminated and uncontaminated rooms or areas shall be through the decontamination unit previously described. Passage between any two rooms within the decontamination unit shall be through an airlock doorway.

1. Construct a personnel decontamination unit contiguous to the Work area. The unit shall consist of three totally enclosed chambers that conform to the following:
   a. A shower room with two airlock doorways, one to the equipment room and one to the clean room. Plastic, if used, on shower room and adjoining equipment and clean rooms shall be opaque.
   b. The shower room shall contain at least one shower with hot and cold or warm water. The shower enclosure should be constructed to ensure against any leaking.
2. Provide or construct an equipment decontamination unit consisting of two totally enclosed chambers as follows:
   a. A washroom, constituting an airlock, with an airlock doorway to the Work area and an airlock doorway to the holding area. The washroom shall be at least three feet in length.
   b. A holding area with an airlock doorway to the washroom and an airlock doorway to an uncontaminated area. The holding area shall be at least three feet in length.

E. Maintenance of the Full Containment Area

1. Ensure that barriers and plastic sheeting are properly sealed and taped. Repair damaged barriers and remedy defects immediately upon discovery.
2. Visually inspect enclosures at the beginning of each shift.
3. Use smoke methods to test effectiveness of barriers when directed by the Owner.

F. Asbestos removal work shall not commence until:

1. Arrangements have been made for disposal of waste at an acceptable site.
2. Work areas and decontamination units and parts of the building required to remain in use are segregated.
3. All tools, equipment, and materials are at the site.
4. Arrangements have been made for building security.
5. All other preparatory steps have been taken and applicable notices posted and permits obtained.
6. Removal work will not begin until authorized by the Owner in writing after an inspection of the abatement area has been inspected by the Project Monitor and the preparation is satisfactory.

2.2 ASBESTOS REMOVAL

A. Prepare a full containment as previously described.

B. Remove and clean ceiling mounted objects, such as lights and other items not previously sealed off, that may interfere with ACM removal. Use hand-held water spraying and/or HEPA vacuum equipment during removal of fixtures as necessary to reduce fiber dispersal.

If present, remove ceiling tiles and grid system within the Work area and dispose of as contaminated waste.

C. Provide adequate HEPA air filtration capacity to filter air from each room of the Work area which is contained. This may be accomplished by moving individual machines or ducting to individual rooms. Air filtration equipment shall be sufficient to provide filtered air changes of at least every 15 minutes from the containment.

D. When scheduled to be removed per Plans and/or Scope of Work, remove carpeting, carpet backing, window curtains, etc. in sections of appropriate size for packaging and dispose of as contaminated waste.

E. Spray asbestos material with amended water, using spray equipment capable of providing a "mist" application to reduce the release of fibers. Saturate the material sufficiently to wet it to the substrate without causing excess dripping. Spray the asbestos material repeatedly during work process to maintain wet condition and to minimize asbestos fiber dispersion.

F. Protect all fixtures, grills, lockers and other non-removable equipment from amended water. Surfactants can cause oxidation. Also, protect painted surfaces and flooring.

G. Remove the saturated ACM in manageable sections. ACM shall not be allowed to dry out. ACM shall not be allowed to fall more than 15 feet.

   For heights up to 50 feet provide an inclined chute and/or scaffolding that can be used to intercept the ACM. For heights exceeding 50 feet, provide enclosed dustproof chutes.

H. Bulk asbestos material shall be bagged in 6 mil thick bags before it dries. No ACM shall be allowed to lay in the containment overnight. Place the material in sealed containers. Place caution labels on containers in accordance with OSHA Regulation 29 CFR 1926.58 and DOT 49 CFR 171-177 if not already preprinted on containers. Clean external surfaces of containers thoroughly by wet wiping. Move containers to washroom, wet clean each container thoroughly, and move to holding area pending removal to uncontaminated areas. Ensure that containers are removed from the holding area by workers who have entered from uncontaminated areas dressed in clean coveralls and wearing respiratory protection. Ensure that workers do not enter from uncontaminated areas into the washroom or the Work area; ensure that contaminated workers do not exit the Work area through the equipment decontamination unit.

I. When finished removing the ACM, all surfaces from which ACM has been removed shall be wet brushed and sponged or cleaned by an equivalent method to remove all visible material. During this work, the surfaces being cleaned shall be kept wet. At the Contractor's option, the layer of plastic exposed to the asbestos may be removed, leaving intact the final layer of plastic.

2.3 CLEANUP

The following procedures should be followed in cleaning up the Work area.

A. Wet clean all surfaces and remove all visible accumulation of ACM from the Work area including the top layer of plastic if not previously removed. Prepare the Work area for an initial visual inspection.

B. Once the Work area has been inspected and is clean of visible accumulations of ACM, the Project Monitor will perform an initial clearance test with limits of 0.02 f/cc with NIOSH method 7400, latest revision. The Contractor will continue the wet cleaning process until the designated fiber level is achieved.

C. After successful completion of the initial air test and before the last layer of the plastic sheeting is removed, apply one coat of an asbestos encapsulant sealer following manufacturer's recommendations for application. The encapsulant sealer shall be compatible with any material to be reapplied to the surface.

D. While still under respiratory protection, remove the final layer of plastic sheeting from the walls and floors after the sealant has dried. The seals on the windows, vents, doors, etc. shall remain, and HEPA filtration equipment and decontamination units shall remain in service.

   Wet clean or HEPA vacuum work area underneath the plastic.

E. Enter a 24-hour settling period. Dust, both visible and invisible, shall be allowed to settle within the Work area without being disturbed during this period.

F. After the settling period, wet clean and/or HEPA vacuum all surfaces within the Work area. Once this cleaning operation is complete, visually inspect the Work area to ensure that it is free of contamination.

G. The Asbestos Project Monitor shall conduct a thorough visual inspection and conduct final air clearance testing. Upon successful completion of the visual inspection and determination that all surfaces in the Work area are dry and free of contamination, the final air clearance testing will be conducted.

H. The final air clearance testing will consist of PCM air sampling, as applicable, with a maximum fiber level of 0.01 fibers per cubic centimeter of air (f/cc) being achieved prior to acceptance.

Contractor shall continue cleaning the work site until the accepted fiber level is achieved.

SECTION C – ASBESTOS REMOVAL – ROOFING MATERIAL

PART 1. GENERAL

The Contractor shall remove and dispose of all asbestos-containing roofing materials, identified in the survey, utilizing procedures outlined in this Section, unless otherwise approved by the Mississippi Department of Environmental Quality (MDEQ).

1.1 EXECUTION

A. Restrict access to the area by erecting barricade tape and warning signs at least 20 feet from the work areas and/or the side of the building.

B. A personnel and equipment decontamination unit shall be constructed contiguous to the restricted area.

C. Wet roofing material with amended water and carefully remove the material.

D. Hand tools may be utilized to remove the roofing materials.

E. Roofing materials must be containerized in the first container/layer prior to removing it from the restricted area. The roofing material may then be placed in/covered with the second container/layer and be disposed of properly.

F. Clean up all visible debris and apply a coat of asbestos encapsulant to the areas of the building that roofing materials was removed.

SECTION D – AIR MONITORING AND CLEARANCE TESTING

PART 1. GENERAL

The purpose of the work of the 3rd Party Air Monitor is to: assure quality; adherence to the specification; resolve problems; prevent the spread of contamination beyond the regulated area, and assure clearance at the end of the project. In addition, their work includes performing the final inspection and testing to determine whether the regulated area or building has been adequately decontaminated. All air monitoring is to be done utilizing PCM. The Contractor shall provide an Asbestos Project Monitor to conduct all air monitoring required for the entire project. The Asbestos Project Monitor shall, at a minimum, have successfully completed a NIOSH 582 course or equivalent, and an EPA approved Supervision of Asbestos Abatement Projects course.

All documentation, inspection results, and testing results generated by the 3rd Party Air Monitor will be available to the Contractor for information and consideration and will also be provided to the Owner. The Abatement Contractor shall cooperate with and support the 3rd Party Air Monitor for efficient and smooth performance of their work.

The monitoring and inspection results of the 3rd Party Air Monitor may be used by the Owner to issue any Stop Removal orders to the Contractor during abatement work and to accept or reject a regulated area or building as decontaminated.

The Abatement Contractor is responsible for the health and safety of his or her employees including performing or arranging to perform any personnel air monitoring mandated by current OSHA regulations.

1.1 EXECUTION

The 3rd Party Air Monitor will perform the following tasks when mandated by this Specification or other provisions of the Contract:

Task 1: When mandated by provisions of the Contract perform continuous air monitoring, inspection, and testing outside the regulated area during actual abatement work to detect any faults in the regulated area isolation and any adverse impact on the surroundings from regulated area activities.

Task 2: Perform final clearance air monitoring when mandated by this Specification or other Contract requirements. Clearance air monitoring shall be in accordance with AHERA protocols except as modified by this Specification.

Task 3: Advise Owner Representative on acceptance or non-acceptance of abated area.

SECTION E – ASBESTOS DISPOSAL

All ACM generated from this project will be disposed of by the Contractor in a licensed and qualified asbestos landfill. The landfill used must be approved by the Owner.

ACM will be contained in either double 6-mil thick leak-tight polyethylene bags, steel drums that meet DOT Specification 17H, in single 6-mil thick leak-tight polyethylene bags, and placed in a fiberboard drum, or sealed in two layers of 6-mil thick polyethylene sheeting.

ACM containers shall be labeled as follows:

1. First Label: Provide in accordance with 29 CFR 1910.1200(f) of OSHA's Hazard Communication standard:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

2. Second Label: Provide in accordance with U.S. Department of Transportation regulation on hazardous waste marking. 49 CFR Parts 171 and 172:

ASBESTOS
NA2212
RQ

3. Third Label: Provide a permanent label on each container, listing the name of the facility owner and the location where the waste was generated, in accordance with the Environmental Protection Agency's Asbestos NESHAP Revision, 40 CFR Part 61.

The containerized ACM waste will be loaded in an enclosed truck for transport to the landfill. A single layer of 6-mil plastic sheeting will be installed on the floor and walls of the truck bed. Containerized waste will be removed from the building on a daily basis.

The truck, used to transport asbestos-containing waste, shall be labeled with a sign bearing the following legend in accordance with the EPA's Asbestos NESHAP Revision, during loading/unloading of the vehicle:

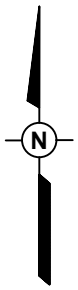
DANGER
ASBESTOS DUST HAZARD
CANCER AND LUNG DISEASE HAZARD
Authorized Personnel Only

Workers handling the containers shall wear respiratory protection.

A completed copy of a Waste Shipment Record (WSR) shall be executed by appropriate parties and be submitted to the Owner. Contractor will inspect waste for shipment and sign all manifest.

APPENDICES

APPENDIX A – FIGURES



0 20 40

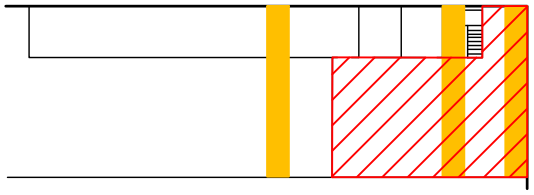
SCALE: 1"=40'
(Approximate)

LEGEND:

ASBESTOS-CONTAINING FLOOR TILE

ASBESTOS-CONTAINING BLACK MASTIC ON COLUMN WOOD SURROUNDINGS

I-BEAMS WITH ASBESTOS-CONTAINING FIRE-PROOFING (ASSUMED COVERS ALL I-BEAM SURFACES AND 4 FEET OF OVERSPRAY ON CEILING AND TRUSS ON CEILING AND TRUSS BEAMS {26 TRUSS BEAMS RUNNING PERPENDICULAR TO I-BEAMS.} ALSO FIREPROOFING IS ON TOP 4 FEET OF 8" x 8" COLUMNS)



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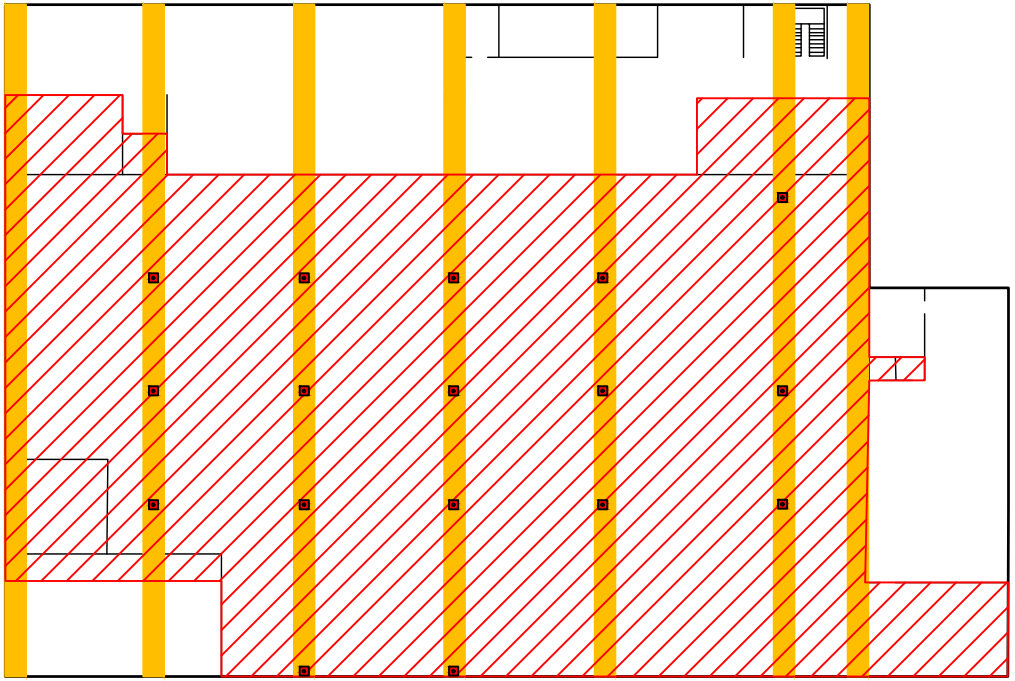

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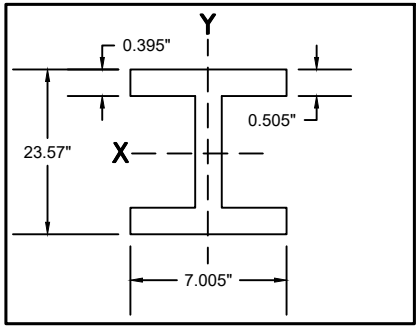
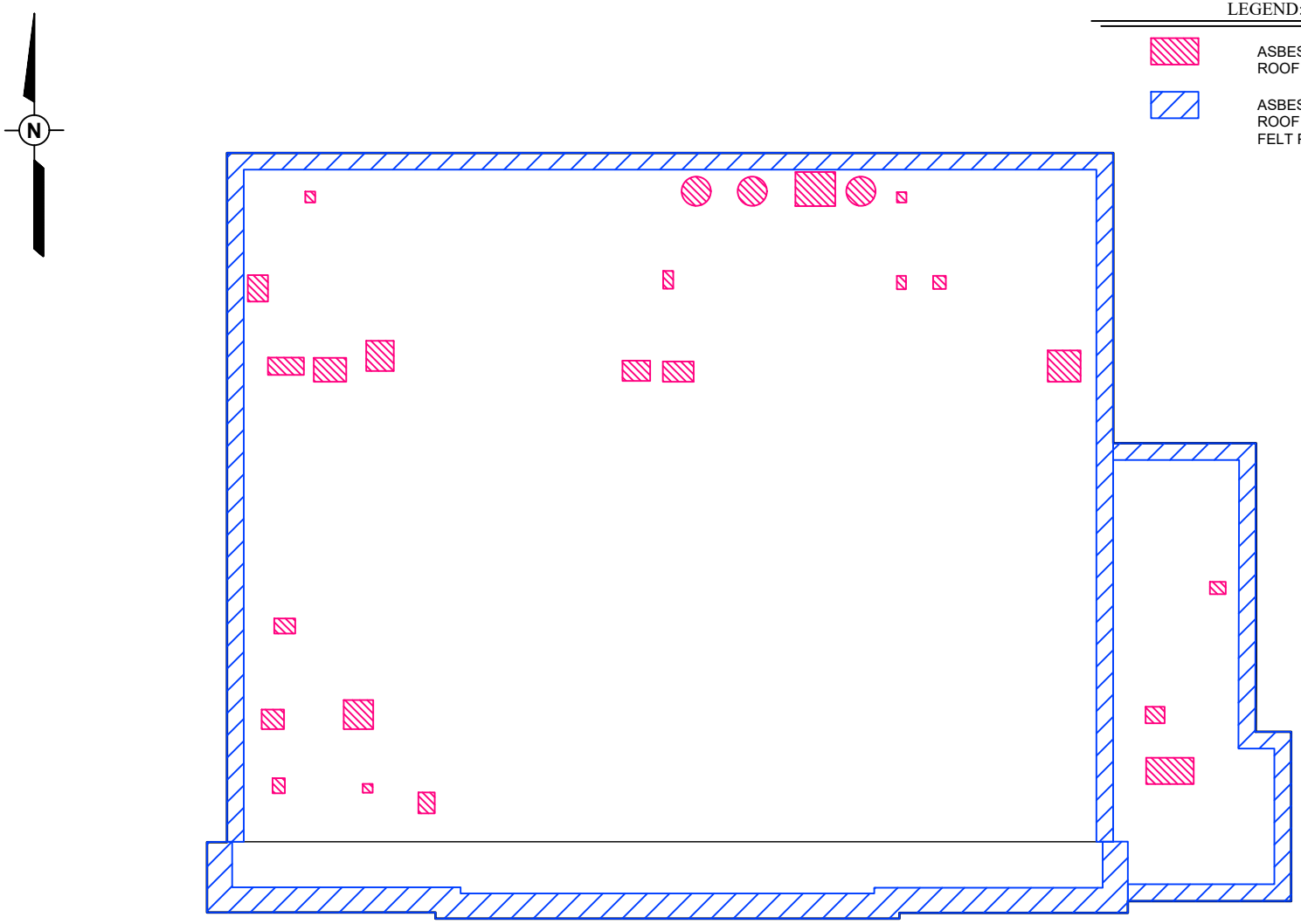


PPM CONSULTANTS, INC. www.ppmco.com	
DRAWN BY: JCP	DRAWN DATE: 1/26/21
PROJECT NUMBER: 30060104	PHASE: TO-02

LAUDERDALE COUNTY
FORMER LABCORP BUILDING
608 22ND AVENUE
MERIDIAN, MISSISSIPPI

ABATEMENT SITE PLAN - INTERIOR

FIGURE NUMBER
1



PPM CONSULTANTS, INC. www.ppmco.com		LAUDERDALE COUNTY **FORMER LABCORP BUILDING** 608 22ND AVENUE MERIDIAN, MISSISSIPPI	ABATEMENT SITE PLAN - ROOF
DRAWN BY: JCP	DRAWN DATE: 1/13/21		FIGURE NUMBER 2
PROJECT NUMBER: 30060104	PHASE: TO-01		

APPENDIX B –
ASBESTOS SURVEY REPORT, JANUARY 28, 2021

ASBESTOS-CONTAINING MATERIALS SURVEY REPORT

FORMER LABCORP BUILDING
VILLAGE FAIR MALL
606 22ND AVENUE
MERIDIAN, MISSISSIPPI

PPM PROJECT NO. 30060104-01

JANUARY 28, 2021

PPM CONSULTANTS

ASBESTOS-CONTAINING MATERIALS SURVEY REPORT

FOR

Former LabCorp Building
Village Fair Mall
606 22ND Avenue
Meridian, Mississippi

PREPARED FOR:

Lauderdale County, Mississippi
410 Constitution Avenue, FL 11
Meridian, MISSISSIPPI 39301

PPM PROJECT NO. 30060104-01

JANUARY 28, 2021

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REVIEWED BY:

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FIGURES (APPENDIX A)

APPENDICES

1.0 INTRODUCTION

PPM Consultants, Inc. (PPM) was retained by Lauderdale County to conduct an update of an Asbestos-Containing Material (ACM) survey of the former LabCorp Building located at 606 22ND Avenue, in Meridian, Lauderdale County, Mississippi conducted in 2019. The purpose of the survey and the update to the survey was to review the 2019 findings and to determine if ACM building materials are present behind column surrounds, ductwork, and in roofing on the building located on the property. This report describes field methodology, presents analytical results, and provides conclusions based on the findings of the ACM survey conducted on July 24, 2019, January 11, 2021, and January 25, 2021. Prior to any demolition or renovation activities, National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations require that any regulated asbestos-containing material (RACM) be removed. RACM consists of all friable ACM, all Category II ACM, and any Category I ACM that is in such poor condition that it may become friable during demolition activities.

2.0 SITE DESCRIPTION

2.1 SITE DESCRIPTION

The LabCorp Building property is located in a commercial area at 606 22ND Street, south of downtown Meridian, Mississippi and is a part of the former Village Fair Mall property, which Lauderdale County purchased in June 2019. The property covers approximately 30,000 square feet and is located in Section 19, Township 6 North. Site location is depicted in **Figure 1, Site Location Map, Appendix A, Figures.**

The LabCorp building is an approximately 30,000-square foot brick building with a slab foundation and flat roof. Site features are included in **Figure 2, Surrounding Area and Site Map, Figures.**

3.0 ASBESTOS CONTAINING MATERIAL INSPECTION

The first asbestos survey was performed on July 24, 2019, and another asbestos survey was performed on January 11, 2021, by PPM State of Mississippi Certified Asbestos Inspectors, **(Appendix B, Mississippi Asbestos Inspectors Certification)**. On January 25, 2021, an additional asbestos survey was performed. PPM's scope of work included a

visual survey and sampling of accessible suspect ACMs on the interior and exterior areas of the buildings. The inspection included a visual assessment of suspect ACMs and subsequent sampling and analysis.

3.1 SAMPLE COLLECTION AND FINDINGS

The LabCorp building was inspected for the presence of suspect ACM. After suspect materials were identified, a minimum of two (2) samples of each homogenous material were collected for analysis. Asbestos sample locations are shown in **Figure 3A, Sample Location Map-Ground Floor, Figure 3B, Sample Location Map-Mezzanine, and Figure 3C, Sample Location Map-Roof** included in **Appendix A, Figures.**

The samples collected were transported under strict chain-of-custody protocol for asbestos analysis to EMSL Labs in Baton Rouge, Louisiana, a laboratory accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). Bulk samples were analyzed for asbestos content using Polarized Light Microscopy (PLM) with Dispersion Staining (EPA Method 600/R-93/116). Analytical results are included in **Appendix B, Laboratory Analytical Results**.

The following 18 homogenous areas of suspect ACM were identified during the visual inspection of the property during the inspection conducted on July 24, 2019:

- Tan 12” x 12” Floor Tile & Mastic (LabCorp (LC) LC-01))
- Red 12” x 12” Floor Tile & Mastic (LC-02)
- Pink 12” x 12” Floor Tile & Mastic (LC-03)
- Gray 12” x 12” Floor Tile & Mastic (LC-04)
- White 12” x 12” Floor Tile & Mastic (LC-05)
- Yellow 12” x 12” Floor Tile & Mastic (LC -06)
- Light pink 12” x 12” Floor Tile & Mastic (LC-07)
- Ceiling Tile 24” x 48” (LC-08)
- Drywall (LC-09)
- Window Caulk (LC-10)
- Green 12” x 12” Floor Tile & Mastic (LC-11)

- Dark Gray 12” x 12” Floor Tile & Mastic (LC-12)
- Roof Flashing (LC-13)
- Side Roofing (LC-14)
- Corrugated Roofing (LC-15)
- Sprayed on Fireproofing (LC-16)
- Water Heater Insulation (LC-17)
- Upstairs 12” x 12” Floor Tile & Mastic (LC-18)

The following 11 homogenous areas of suspect ACM were identified during the visual inspection of the property during the inspection conducted on January 11, 2021:

- Black Roof Flashing Around AC on Lower Roof [LC-01-01 (2021) and LC-02-01 (2021)]
- Black Roof Flashing on Parapet Wall on Lower Roof [LC-03-02 (2021) and LC-04-02 (2021)]
- Black Roofing Material on Lower Roof [LC-05 (2021) and LC-06 (2021)]
- Black Roof Flashing on Lower Roof [LC-07-03 (2021) and LC-08-03 (2021)]
- Gray/White Stucco Cladding on Front of Building [LC-09 (2021) and LC-10 (2021)]
- Black Roof Flashing on Parapet Wall on Upper Roof [LC-11-05 (2021) and LC-12-05 (2021)]
- Black Felt Paper Under Cap on Upper Roof [LC-13 (2021) and LC-14 (2021)]
- White/Beige AC Duct Gasket [LC-15 (2021) and LC-16 (2021)]
- Black Mastic on Wood Around Column [LC-17 (2021) and LC-18 (2021)]
- Yellow Glue on Wood Around Column [LC-19 (2021) and LC-20 (2021)]
- Brown Ceramic Grout on Wall [LC-21 (2021) and LC-22 (2021)]

One homogenous area of suspect ACM was confirmed during the visual inspection of the property conducted on January 25, 2021:

- Tan 12” x 12” Floor Tile & Black Mastic under Carpet [LC-23 (2021)]

According to the analytical results, thirty one (31) of the sixty seven (67) samples collected on July 24, 2019 were identified to contain asbestos. This conclusion is based on the EPA definition of an ACM as material composed of "…greater than 1% asbestos." The identified ACMs are as shown on the following pages:

- **Tan 12" x 12" Floor Tile Mastic (LC-01**). This material, which is located on the interior of the building, was determined to contain 10% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Red 12” x 12” Floor Tile Mastic (LC-02).** This material, which is located on the interior of the building, was determined to contain 8% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Brown 12” x 12” Floor Tile Mastic (LC-03).** This material, which is located on the interior of the building, was determined to contain 10% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Gray 12” x 12” Floor Tile Mastic (LC-04).** This material, which is located on the interior of the building, was determined to contain 10% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **White 12” x 12” Floor Tile Mastic (LC-05).** This material, which is located on the interior of the building, was determined to contain 14% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Orange 12” x 12” Floor Tile Mastic (LC-06).** This material, which is located on the interior of the building, was determined to contain 10% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Beige 12” x 12” Floor Tile Mastic (LC-07).** This material, which is located on the interior of the building, was determined to contain 11% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Green 12” x 12” Floor Tile Mastic (LC-11).** This material, which is located on the interior of the building, was determined to contain 10% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Beige 12” x 12” Floor Tile Mastic (LC-12).** This material, which is located on the interior of the building, was determined to contain 10% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Roof Flashing (LC-13).** This material, which is located on the roof of the building, was determined to contain 12% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Sprayed on Fireproofing (LC-16).** This material, which is located on the beams that traverse horizontally along the entire building and on a four-foot section of the vertical columns above the ceiling tiles in the interior of the building, was determined to contain 10% chrysotile asbestos. This material is classified as a Category II friable ACM according to NESHAPS regulations.

According to the analytical results, twelve (12) of twenty-three (23) samples collected on January 11, 2021, were identified to contain asbestos. This conclusion is based on the EPA definition of an ACM as material composed of "…greater than 1% asbestos." The identified ACMs are as follows:

- **Black Roof Flashing [LC-01-01 (2021) and LC-02-01 (2021)].** This material, which is located around the AC unit on the lower roof, was determined to contain 7% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

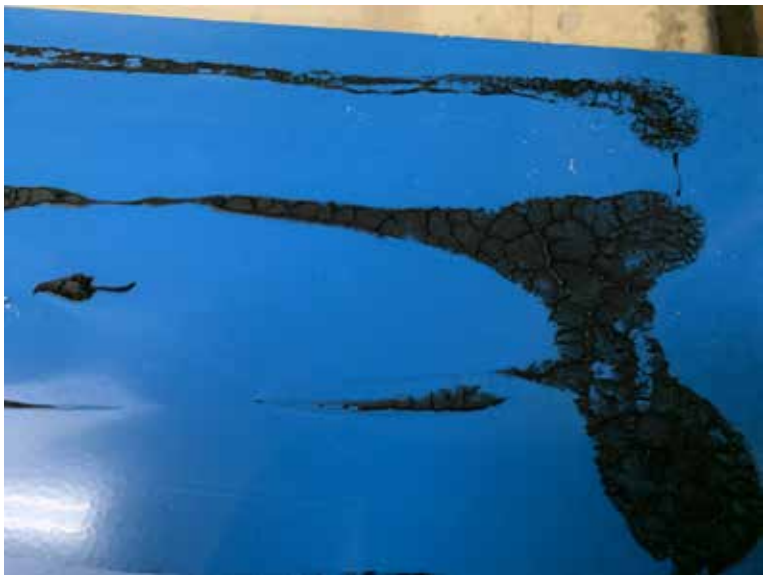
- **Black Roof Flashing [LC-03-02 (2021) and LC-04-02 (2021)].** This material, which is located on the parapet wall on the lower roof, was determined to contain 10% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Black Roof Flashing [LC-07-03 (2021) and LC-08-03 (2021)].** This material, which is located on lower roof, was determined to contain 3% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Black Roof Flashing [LC-11-05 (2021) and LC-12-05 (2021)].** This material, which is located on the parapet wall on the upper roof, was determined to contain 12% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Black Roof Flashing [LC-13 (2021) and LC-14 (2021)].** This material, which is located on the upper roof and is felt paper under the cap, was determined to contain 15% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

- **Black Mastic [LC-17 (2021) and LC-18 (2021)].** This material, which is located on the wood surrounds of some of the metal columns in the interior, was determined to contain 6% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations. A yellow glue was found on some of the wood columns surround the interior as well. However, the yellow glue was sampled [LC-19 (2021) and LC-20 (2021)] and was determined to not contain asbestos.



According to the analytical results, one (1) of the eight (8 samples collected on January 25, 2021 were identified to contain asbestos. This conclusion is based on the EPA definition of an ACM as material composed of "…greater than 1% asbestos." The identified ACMs are as shown on the following pages:

- **Tan 12" x 12" Floor Tile & Black Mastic under Carpet [LC-23 (2021)].** This material, which is located on the interior of the building, was determined to contain 8% chrysotile asbestos. This material is classified as a Category I non-friable ACM according to NESHAPS regulations.

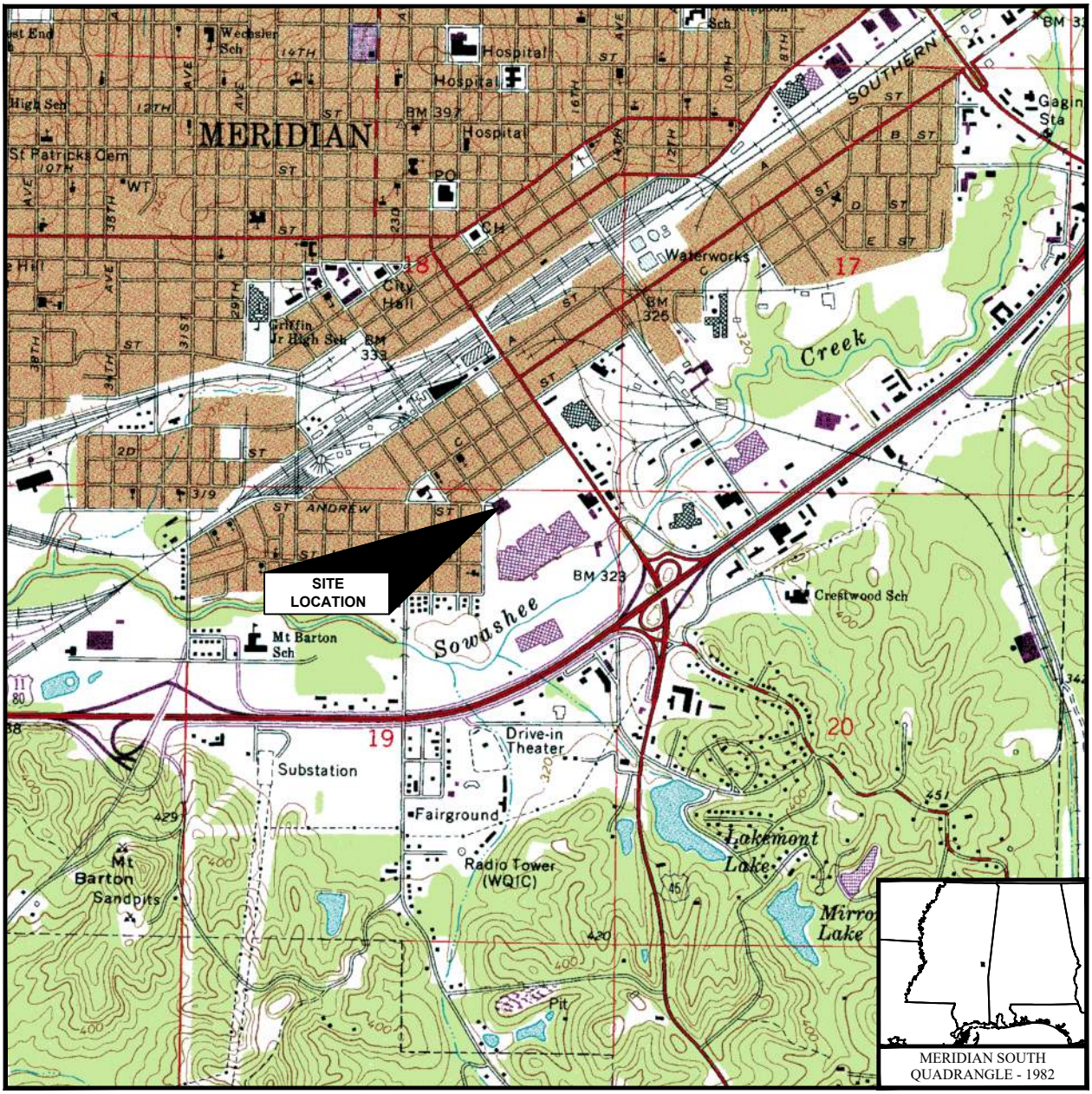
Copies of the laboratory data are included in **Appendix B, Laboratory Analytical Results**.

4.0 RECOMMENDATIONS

Considering these findings, EPA's NESHAP 40 CFR 61, Subpart M, and the MDEQ Title 11 Mississippi Administrative Code, Part 2, Chapter 1 require the removal of RACM prior to any renovation or demolition activities that will disturb those materials and render them friable. RACM consists of all friable, Category II ACM, and all Category I ACM that has become friable or has the potential to become friable as a result of renovation or demolition activities. Both EPA and State of Mississippi regulations require that persons who perform abatement activities be accredited and certified and that all EPA, MDEQ, and Occupational Safety and Health Administration (OSHA) regulations are followed. A renovation/demolition project of this type will also require a written notification be submitted to the MDEQ ten working days prior to the beginning of the project. The MDEQ notification form can be found in the **Appendix C, MDEQ Asbestos Notification Form** of this report.

APPENDICES

APPENDIX A – FIGURES



SCALE: 1 : 24,000

1 .5 0 1
MILES

1000 0 1000 5000 10,000
FEET

1 0 KILOMETER 1 2
1000 0 METER 1000 2000

PPM CONSULTANTS, INC. www.ppmco.com		LAUDERDALE COUNTY **FORMER LABCORP BUILDING** 608 22ND AVENUE MERIDIAN, MISSISSIPPI	SITE LOCATION MAP
DRAWN BY: JCP	DRAWN DATE: 1/13/21		FIGURE NUMBER 1
PROJECT NUMBER: 30060104	PHASE: TO-01		

SOURCE: GOOGLE EARTH

I.D.	DESCRIPTION
1	FORMER LABCORP BUILDING
2	GASOLINE STATION
3	FRED'S

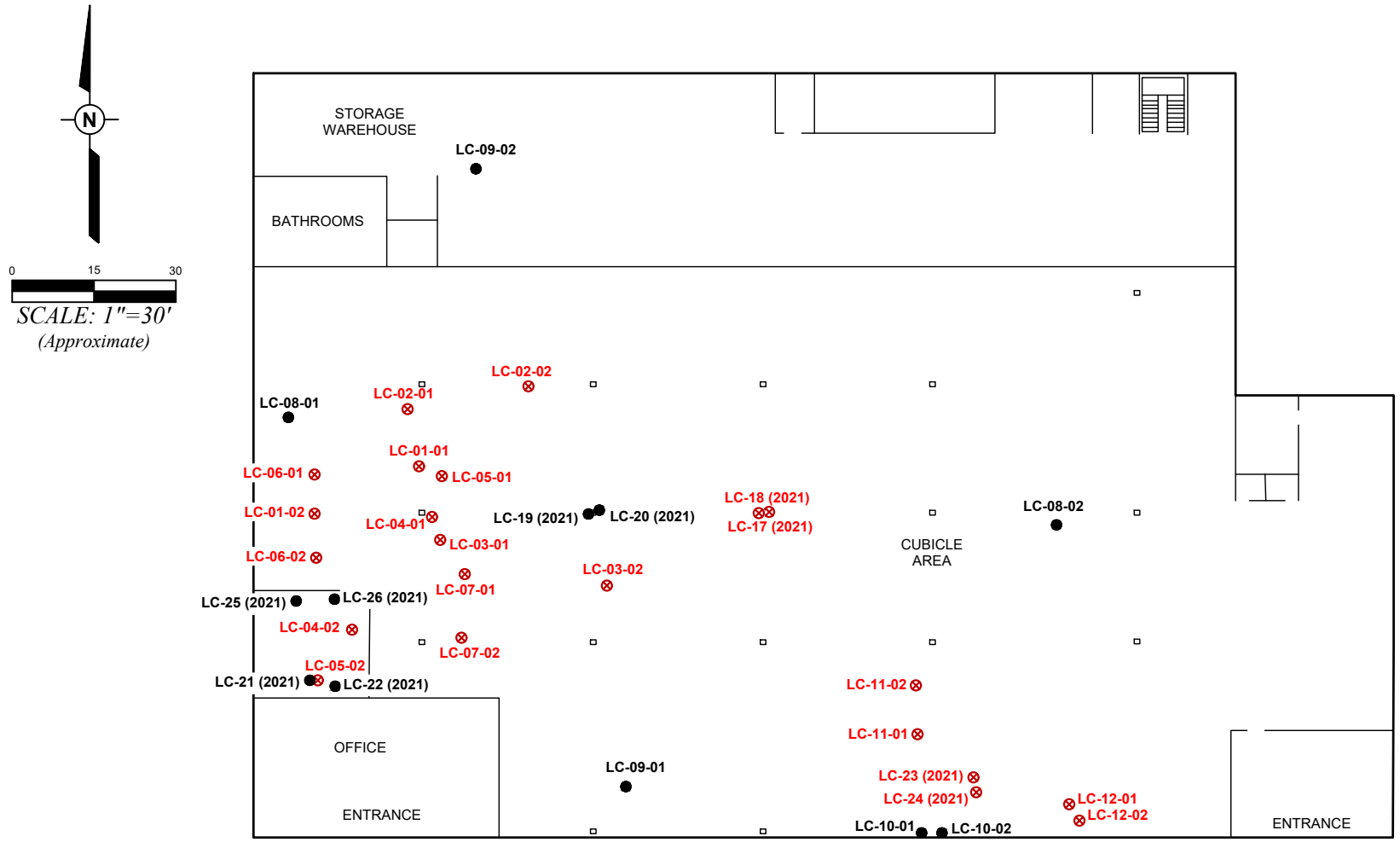
PPM CONSULTANTS, INC.
www.ppmco.com

DRAWN BY:	DRAWN DATE:
JCP	1/13/21
PROJECT NUMBER:	PHASE:
30060104	TO-01

LAUDERDALE COUNTY
FORMER LABCORP BUILDING
608 22ND AVENUE
MERIDIAN, MISSISSIPPI

SURROUNDING AREA AND SITE MAP

FIGURE NUMBER
2



NOTE:
(2021) INDICATES THE SAMPLE WAS COLLECTED ON JANUARY 11, 2021 OR JANUARY 25, 2021. LABELS WITHOUT THIS INDICATION WERE COLLECTED ON JULY 24, 2019.

LEGEND:

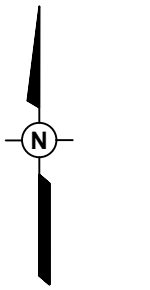
- SAMPLE LOCATION
- POSITIVE SAMPLE LOCATION

PPM CONSULTANTS, INC. www.ppmco.com	
DRAWN BY: JCP	DRAWN DATE: 1/13/21
PROJECT NUMBER: 30060104	PHASE: TO-01

LAUDERDALE COUNTY
FORMER LABCORP BUILDING
608 22ND AVENUE
MERIDIAN, MISSISSIPPI

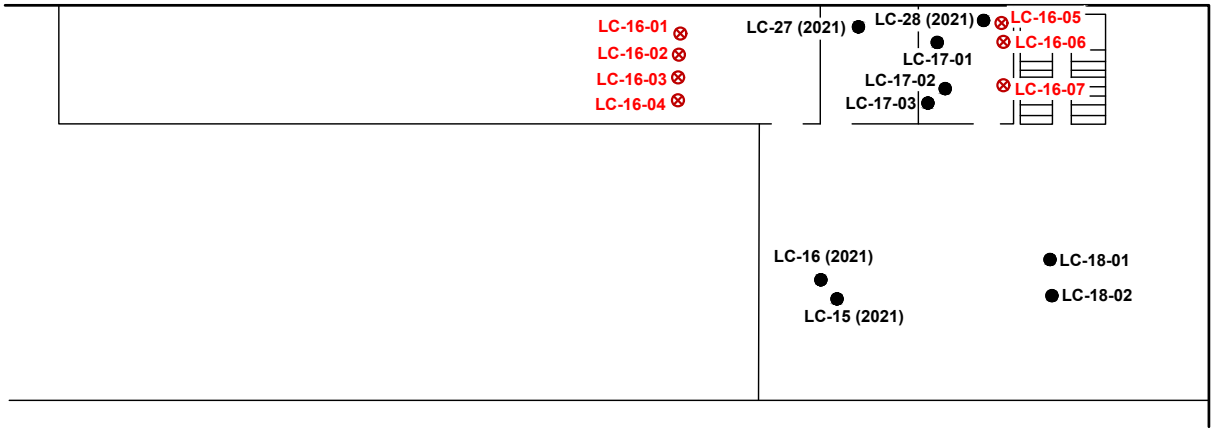
SAMPLE LOCATION MAP - GROUND FLOOR

FIGURE NUMBER
3A



0 15 30

SCALE: 1"=30'
(Approximate)



NOTE:
(2021) INDICATES THE SAMPLE WAS COLLECTED ON JANUARY 11, 2021 OR JANUARY 25, 2021. LABELS WITHOUT THIS INDICATION WERE COLLECTED ON JULY 24, 2019.

LEGEND:

- ● SAMPLE LOCATION
- ⊗ POSITIVE SAMPLE LOCATION

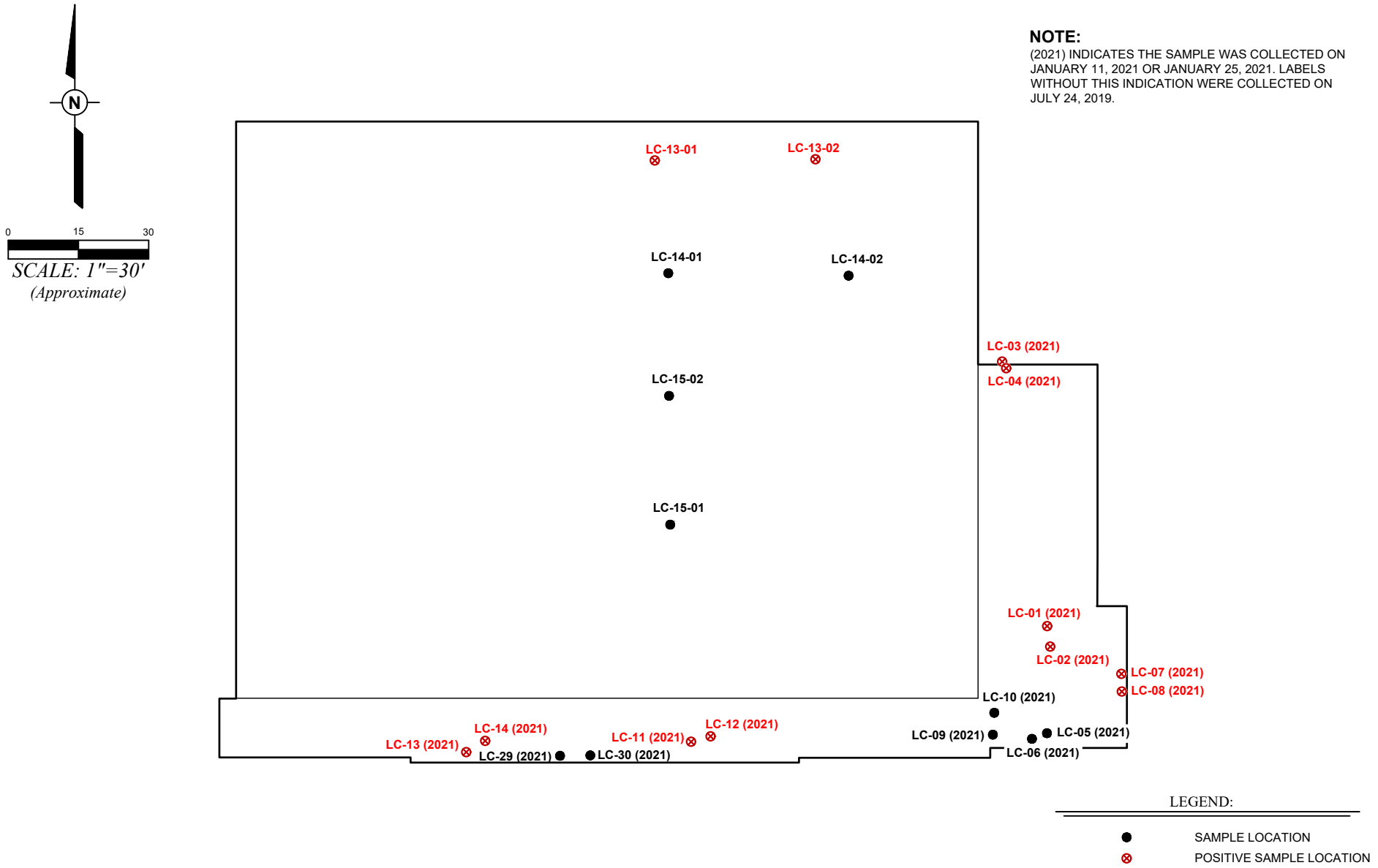
PPM CONSULTANTS, INC. www.ppmco.com	
DRAWN BY: JCP	DRAWN DATE: 1/13/21
PROJECT NUMBER: 30060104	PHASE: TO-01

LAUDERDALE COUNTY
FORMER LABCORP BUILDING
608 22ND AVENUE
MERIDIAN, MISSISSIPPI

SAMPLE LOCATION MAP - MEZZANINE

FIGURE NUMBER
3B

NOTE:
(2021) INDICATES THE SAMPLE WAS COLLECTED ON JANUARY 11, 2021 OR JANUARY 25, 2021. LABELS WITHOUT THIS INDICATION WERE COLLECTED ON JULY 24, 2019.



PPM CONSULTANTS, INC. www.ppmco.com		LAUDERDALE COUNTY **FORMER LABCORP BUILDING** 608 22ND AVENUE MERIDIAN, MISSISSIPPI	SAMPLE LOCATION MAP - ROOF
DRAWN BY: JCP	DRAWN DATE: 1/13/21		FIGURE NUMBER 3C
PROJECT NUMBER: 30060104	PHASE: TO-01		

APPENDIX B – MISSISSIPPI ASBESTOS INSPECTORS CERTIFICATION

State of Mississippi

Department of Environmental Quality

Office of Pollution Control

Certificate of Licensure

In accordance with the Asbestos Abatement Accreditation and Certification Act,
Enacted as 1989 Mississippi Law, Chapter 505

Be it known that

Reginald Sampson

Having submitted acceptable evidence of qualifications and
training and other appropriate information, is hereby granted this

Asbestos Inspector

Certification

Chief, Asbestos & Lead Program Branch

Certificate No.: ABI-00001921
Expiration Date: Sep 18th, 2021
Training Expires on Sep 18th, 2021

40765 LIC20200001

State of Mississippi

Department of Environmental Quality
Office of Pollution Control

Certificate of Licensure

In accordance with the Asbestos Abatement Accreditation and Certification Act,
Enacted as 1989 Mississippi Law, Chapter 505

Be it known that

Alden Blake Sanders

Having submitted acceptable evidence of qualifications and
training and other appropriate information, is hereby granted this

Asbestos Inspector

Certification

Chief, Air Division

Certificate No.: ABI-00007749
Expiration Date: February 14th, 2021
Training Expires on February 14th, 2021

69679 LIC20200001

APPENDIX C –LABORATORY ANALYTICAL RESULTS

EMSL Analytical, Inc.

18369 Petroleum Drive Baton Rouge, LA 70809

Tel/Fax: (225) 755-1920 / (225) 755-1989

http://www.EMSL.com / batonrougelab@emsl.com

EMSL Order:	252100259
Customer ID:	PPMC29
Customer PO:	
Project ID:	

Attention:	Trey Hess	**Phone:**	(601) 497-0501
	PPM Consultants	**Fax:**	
	289 Commerce Park Drive	**Received Date:**	01/26/2021 9:50 AM
	Suite D	**Analysis Date:**	01/26/2021
	Ridgeland, MS 39157	**Collected Date:**	01/25/2021
Project:	30060104-Lab Corp		

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
LC-23-Glue *252100259-0001*	12x12 Floor Tile/Carpet Glue/Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-23-Floor Tile *252100259-0001A*	12x12 Floor Tile/Carpet Glue/Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-23-Mastic *252100259-0001B*	12x12 Floor Tile/Carpet Glue/Mastic	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
LC-24-Glue *252100259-0002*	12x12 Floor Tile/Carpet Glue/Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-24-Floor Tile *252100259-0002A*	12x12 Floor Tile/Carpet Glue/Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-24-Mastic *252100259-0002B*	12x12 Floor Tile/Carpet Glue/Mastic				Positive Stop (Not Analyzed)
LC-25-Ceramic Tile *252100259-0003*	6"x6" Ceramic Tile/Grout	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-25-Grout *252100259-0003A*	6"x6" Ceramic Tile/Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-26-Ceramic Tile *252100259-0004*	6"x6" Ceramic Tile/Grout	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-26-Grout *252100259-0004A*	6"x6" Ceramic Tile/Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-27-Ceramic Tile *252100259-0005*	3"x3" Ceramic Tile/Glue	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-27-Grout *252100259-0005A*	3"x3" Ceramic Tile/Glue	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-27-Glue *252100259-0005B*	3"x3" Ceramic Tile/Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-28-Ceramic Tile *252100259-0006*	3"x3" Ceramic Tile/Glue	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-28-Grout *252100259-0006A*	3"x3" Ceramic Tile/Glue	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-28-Glue *252100259-0006B*	3"x3" Ceramic Tile/Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/26/2021 16:54:31

EMSL Analytical, Inc.
18369 Petroleum Drive Baton Rouge, LA 70809
Tel/Fax: (225) 755-1920 / (225) 755-1989
http://www.EMSL.com / batonrougelab@emsl.com

EMSL Order: 252100259
Customer ID: PPMC29
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
LC-29-Rough Coat *252100259-0007*	Finish Coat on Concrete	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-29-Concrete *252100259-0007A*	Finish Coat on Concrete	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-30-Rough Coat *252100259-0008*	Finish Coat on Concrete	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-30-Concrete *252100259-0008A*	Finish Coat on Concrete	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)
Tyler Pullig (19)

Jamie Laginess, Laboratory Operations Manager
or Other Approved Signatory

Initial report from: 01/26/2021 16:54:31

OrderID: 252100259

Asbestos Chain of Custody

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Order Number (*Lab Use Only*): 0259

PHONE:
FAX:

Company Name: PPM Consultants		**EMSL Customer ID:** PPMC29 (RD)	
Street: 289 Commerce Park Drive Suite D		**City:** Ridgeland	**State/Province:** MS
Zip/Postal Code: 39157	**Country:** USA	**Telephone #:** 6019568233	**Fax #:**
Report To (Name): Trey Hess		**Please Provide Results:** ☐ Fax ☑ Email	
Email Address: trey.hess@ppmco.com,		**Purchase Order:**	
Project Name/Number: 30060104-Lab Corp		**EMSL Project ID** (*Internal Use Only*):	
U.S. State Samples Taken: MS		**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

EMSL-Bill to: ☑ Same ☐ Different - If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour | ☐ 6 Hour (RD) | ☒ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ☐ 1 Week | ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air ☐ Check if samples are from NY
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit) (RD)
- ☑ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NYS 198.8 SOF-V
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM EPA 600/R-93/116 with milling prep (<1%)
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
- ☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)
- ☐ TEM Qualitative via Filtration Prep
- ☐ TEM Qualitative via Drop Mount Prep
- ☐ Cincinnati Method EPA 600/R-04/004 – PLM/TEM (BC only)

Other: ☐

(RD) ☑ Check For Positive Stop – Clearly Identify Homogenous Group

Filter Pore Size (Air Samples): ☐ 0.8µm ☒ 0.45µm

Samplers Name: Reggie Sampson **Samplers Signature:** Reggie Sampson

Sample #	Sample Description	Volume/Area (Air) / HA # (Bulk)	Date/Time Sampled
LC-23	12x12 Floor Tile off-white \ Yellow Carpet Glue \ Black Mastic		1/25/21
LC-24	12x12 Floor Tile off-white \ Yellow Carpet Glue \ Black Mastic		
LC-25	6in x 6in Ceramic Tile \ Grey Grout		
LC-26	6in x 6in Ceramic Tile \ Grey Grout		

Client Sample # (s): LC-23 - LC-30 **Total # of Samples:** 8

Relinquished (Client): Reggie Sampson **Date:** 1/25/21 **Time:** 1570S

Received (Lab): K. Brown **Date:** 1/26/21 **Time:** 9:50am

Comments/Special Instructions:

Page 1 of 2 pages

(R) 7727 2269 4642

181

Controlled Document – Asbestos COC – R10 – 05/09/2016

OrderID: 252100259

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

0259

PHONE:
FAX:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
LC-27	3in x 3in Green Ceramic Tile \ Yellow Glue		1/25/21
LC-28	3in x 3in Green Ceramic Tile \ Yellow Glue		"
LC-29	White Finish Coat on Concrete		"
LC-30	White Finish Coat on Concrete		"

***Comments/Special Instructions:**

Page 2 of 2 pages

EMSL Analytical, Inc.

18369 Petroleum Drive Baton Rouge, LA 70809

Tel/Fax: (225) 755-1920 / (225) 755-1989

http://www.EMSL.com / batonrougelab@emsl.com

EMSL Order:	252100119
Customer ID:	PPMC29
Customer PO:	
Project ID:	

Attention:	Trey Hess	**Phone:**	(601) 497-0501
	PPM Consultants	**Fax:**	
	289 Commerce Park Drive	**Received Date:**	01/13/2021 9:40 AM
	Suite D	**Analysis Date:**	01/13/2021 - 01/14/2021
	Ridgeland, MS 39157	**Collected Date:**	01/11/2021
Project:	30060104-Lab Corp		

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
LC-01-01 *252100119-0001*	Lower Roof - Roof Flashing	Black Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
LC-02-01 *252100119-0002*	Lower Roof - Roof Flashing				Positive Stop (Not Analyzed)
LC-03-02 *252100119-0003*	Lower Roof - Roof Flashing	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
LC-04-02 *252100119-0004*	Lower Roof - Roof Flashing				Positive Stop (Not Analyzed)
LC-05 *252100119-0005*	Lower Roof - Roofing Material	Black Fibrous Heterogeneous	10% Cellulose 5% Glass	85% Non-fibrous (Other)	None Detected
LC-06 *252100119-0006*	Lower Roof - Roofing Material	Black Fibrous Heterogeneous	5% Cellulose 10% Glass	85% Non-fibrous (Other)	None Detected
LC-07-03 *252100119-0007*	Lower Roof - Roof Flashing	Black Non-Fibrous Homogeneous	5% Cellulose 5% Glass	87% Non-fibrous (Other)	3% Chrysotile
LC-08-03 *252100119-0008*	Lower Roof - Roof Flashing				Positive Stop (Not Analyzed)
LC-09-Wrap *252100119-0009*	Front of Building - Sstucco Cladding	Gray Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
LC-09-Insulation *252100119-0009A*	Front of Building - Sstucco Cladding	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-10 *252100119-0010*	Front of Building - Sstucco Cladding	Gray/White Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
LC-11-05 *252100119-0011*	Upper Roof - Flashing Parapet Wall	Black Non-Fibrous Homogeneous		88% Non-fibrous (Other)	12% Chrysotile
LC-12-05 *252100119-0012*	Upper Roof - Flashing Parapet Wall				Positive Stop (Not Analyzed)
LC-13 *252100119-0013*	Upper Roof - Felt Paper Under Cap	Black Fibrous Homogeneous		85% Non-fibrous (Other)	15% Chrysotile
LC-14 *252100119-0014*	Upper Roof - Felt Paper Under Cap				Positive Stop (Not Analyzed)
LC-15 *252100119-0015*	AC Duct Gasket	White Fibrous Homogeneous	40% Glass	60% Non-fibrous (Other)	None Detected

Initial report from: 01/14/2021 11:27:51

EMSL Analytical, Inc.
18369 Petroleum Drive Baton Rouge, LA 70809
Tel/Fax: (225) 755-1920 / (225) 755-1989
http://www.EMSL.com / batonrougelab@emsl.com

EMSL Order:	252100119
Customer ID:	PPMC29
Customer PO:	
Project ID:	

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
LC-16 *252100119-0016*	AC Duct Gasket	Beige Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
LC-17 *252100119-0017*	Around Column - Black Mastic on Wood	Black Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
LC-18 *252100119-0018*	Around Column - Black Mastic on Wood				Positive Stop (Not Analyzed)
LC-19 *252100119-0019*	Around Column - Yellow Glue on Wood	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-20 *252100119-0020*	Around Column - Yellow Glue on Wood	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-21 *252100119-0021*	On Wall - Ceramic Grout	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-22 *252100119-0022*	On Wall - Ceramic Grout	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Jurnee West (5)
Tyler Pullig (12)

Jamie Laginess, Laboratory Operations Manager
or Other Approved Signatory

Initial report from: 01/14/2021 11:27:51

OrderID: 252100119

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 0119

PHONE:
FAX:

Company Name: PPM Consultants		**EMSL Customer ID:** PPMC29	
Street: 289 Commerce Park Drive Suite D		**City:** Ridgeland	**State/Province:** MS
Zip/Postal Code: 39157	**Country:** USA	**Telephone #:** 6019568233	**Fax #:**
Report To (Name): Trey Hess		**Please Provide Results:** ☐ Fax ☑ Email	
Email Address: trey.hess@ppmco.com,		**Purchase Order:**	
Project Name/Number: 30060104-Lab Corp		**EMSL Project ID** *(Internal Use Only)*:	
U.S. State Samples Taken: MS		**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

EMSL-Bill to: ☑ Same ☐ Different - If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour | ☐ 6 Hour | ☑ 24 Hour | ☐ 48 Hour | ☑ 72 Hour | ☐ 96 Hour | ☐ 1 Week | ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air ☐ Check if samples are from NY
☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
☑ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NYS 198.8 SOF-V
☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
☐ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP
☐ TEM Mass Analysis-EPA 800 sec. 2.5

TEM – Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
☐ PLM EPA 600/R-93/118 with milling prep (<1%)
☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
☐ TEM EPA 600/R-93/118 with milling prep (<0.1%)
☐ TEM Quelitative via Filtration Prep
☐ TEM Qualitative via Drop Mount Prep
☐ Cincinnati Method EPA 600/R-04/004 – PLM/TEM (BC only)

Other:
☐

☑ Check For Positive Stop – Clearly Identify Homogenous Group

Filter Pore Size (Air Samples): ☑ 0.8µm ☐ 0.45µm

Samplers Name: Reggie Sampson **Samplers Signature:** Reggie Sampson

Sample #	Sample Description	Volume/Area (Air) / HA # (Bulk)	Date/Time Sampled
LC-01-01	Roof Flashing Around AC Lower Roof		
LC-02-01	Roof Flashing Around AC Lower Roof		
LC-03-02	Roof Flashing on Parapet Wall Lower Roof		
LC-04-02	Roof Flashing on Parapet Wall Lower Roof		
LC-05	Roofing Material Lower Roof		

Client Sample # (s): LC-01 - LC-22 **Total # of Samples:** 22

Relinquished (Client): Trey Hess **Date:** 1/12/2021 **Time:** 2PM

Received (Lab): [illegible] **Date:** 1/13/21 **Time:** 9:40 am

Comments/Special Instructions:

Page 1 of 2 pages

(R) 7726 0631 5129
2 of 2

Controlled Document – Asbestos COC – R10 – 05/09/2018

OrderID: 252100119

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*): 0119

PHONE:
FAX:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
LC-06	Roofing Material Lower Roof	1/11/2021	
LC-07-03	Roof Flashing Lower Roof		
LC-08-03	Roof Flashing Lower Roof		
LC-09	Stucco Cladding Front of Building		
LC-10	Stucco Cladding Front of Building		
LC-11-05	Flashing Parapet Wall upper Roof		
LC-12-05	Flashing Parapet Wall upper Roof		
LC-13	Felt Paper under CAP upper Roof		
LC-14	Felt Paper unde CAP upper Roof		
LC-15	AC Duct GASket		
LC-16	AC Duct GASket		
LC-17	Black MASTic on Wood Around Column		
LC-18	Black MASTic on Wood Around Column		
L-C-19	Yellow Glue on Wood Around Column		
LC-20	Yellow Glue on Wood Around Column		
LC-21	Ceramic Grout on WALL		
LC-22	Ceramic Grout on WALL		

***Comments/Special Instructions:**

EMSL Analytical, Inc.

18369 Petroleum Drive Baton Rouge, LA 70809

Tel/Fax: (225) 755-1920 / (225) 755-1989

http://www.EMSL.com / batonrougelab@emsl.com

EMSL Order:	251904772
Customer ID:	PPMC29
Customer PO:	
Project ID:	

Attention:	Blake Sanders	**Phone:**	(601) 956-8233
	PPM Consultants	**Fax:**	
	289 Commerce Park Drive	**Received Date:**	08/01/2019 9:45 AM
	Suite D	**Analysis Date:**	08/07/2019 - 08/08/2019
	Ridgeland, MS 39157	**Collected Date:**	07/24/2019
Project:	30060101 TO-09		

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
LC-01-01-Floor Tile *251904772-0001*	12x12 Floor Tile w/Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-01-01-Mastic *251904772-0001A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
LC-01-02-Floor Tile *251904772-0002*	12x12 Floor Tile w/Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-01-02-Mastic *251904772-0002A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-02-01-Floor Tile *251904772-0003*	12x12 Floor Tile w/Mastic	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-02-01-Mastic *251904772-0003A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
LC-02-02-Floor Tile *251904772-0004*	12x12 Floor Tile w/Mastic	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-02-02-Mastic *251904772-0004A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-03-01-Floor Tile *251904772-0005*	12x12 Floor Tile w/Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-03-01-Mastic *251904772-0005A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
LC-03-02-Floor Tile *251904772-0006*	12x12 Floor Tile w/Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-03-02-Mastic *251904772-0006A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-04-01-Floor Tile *251904772-0007*	12x12 Floor Tile w/Mastic	Gray Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
LC-04-01-Mastic *251904772-0007A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
LC-04-02-Floor Tile *251904772-0008*	12x12 Floor Tile w/Mastic	Gray Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
LC-04-02-Mastic *251904772-0008A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)

Initial report from: 08/08/2019 16:29:49

EMSL Analytical, Inc.
18369 Petroleum Drive Baton Rouge, LA 70809
Tel/Fax: (225) 755-1920 / (225) 755-1989
http://www.EMSL.com / batonrougelab@emsl.com

EMSL Order: 251904772
Customer ID: PPMC29
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
LC-05-01-Floor Tile *251904772-0009*	12x12 Floor Tile w/Mastic	White Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
LC-05-01-Mastic *251904772-0009A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
LC-05-02-Floor Tile *251904772-0010*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-05-02-Mastic *251904772-0010A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-06-01-Floor Tile *251904772-0011*	12x12 Floor Tile w/Mastic	Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-06-01-Mastic *251904772-0011A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
LC-06-02-Floor Tile *251904772-0012*	12x12 Floor Tile w/Mastic	Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-06-02-Mastic *251904772-0012A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-07-01-Floor Tile *251904772-0013*	12x12 Floor Tile w/Mastic	Beige Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
LC-07-01-Mastic *251904772-0013A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
LC-07-02-Floor Tile *251904772-0014*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-07-02-Mastic *251904772-0014A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-08-01 *251904772-0015*	24x48 Ceiling Tile	White/Beige Fibrous Homogeneous	40% Cellulose 20% Glass	40% Non-fibrous (Other)	None Detected
LC-08-02 *251904772-0016*	24x48 Ceiling Tile	White/Beige Fibrous Homogeneous	40% Cellulose 20% Glass	40% Non-fibrous (Other)	None Detected
LC-09-01 *251904772-0017*	Drywall	Gray Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
LC-09-02 *251904772-0018*	Drywall	Gray Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
LC-10-01 *251904772-0019*	Window Caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
LC-10-02 *251904772-0020*	Window Caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
LC-11-01-Floor Tile *251904772-0021*	12x12 Floor Tile w/Mastic	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 08/08/2019 16:29:49

EMSL Analytical, Inc.
18369 Petroleum Drive Baton Rouge, LA 70809
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http://www.EMSL.com / batonrougelab@emsl.com

EMSL Order: 251904772
Customer ID: PPMC29
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
LC-11-01-Mastic *251904772-0021A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
LC-11-02-Floor Tile *251904772-0022*	12x12 Floor Tile w/Mastic	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-11-02-Mastic *251904772-0022A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-12-01-Adhesive *251904772-0023*	12x12 Floor Tile w/Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-12-01-Floor Tile *251904772-0023A*	12x12 Floor Tile w/Mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-12-01-Mastic *251904772-0023B*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
LC-12-02-Adhesive *251904772-0024*	12x12 Floor Tile w/Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-12-02-Floor Tile *251904772-0024A*	12x12 Floor Tile w/Mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-12-02-Mastic *251904772-0024B*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
LC-13-01 *251904772-0025*	Roof Flashing	Black Non-Fibrous Homogeneous		88% Non-fibrous (Other)	12% Chrysotile
LC-13-02 *251904772-0026*	Roof Flashing				Positive Stop (Not Analyzed)
LC-14-01 *251904772-0027*	Side Roofing	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
LC-14-02 *251904772-0028*	Side Roofing	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
LC-15-01 *251904772-0029*	Corrugated Roofing	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
LC-15-02 *251904772-0030*	Corrugated Roofing	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
LC-16-01 *251904772-0031*	Fireproofing	Gray Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
LC-16-02 *251904772-0032*	Fireproofing				Positive Stop (Not Analyzed)
LC-16-03 *251904772-0033*	Fireproofing				Positive Stop (Not Analyzed)
LC-16-04 *251904772-0034*	Fireproofing				Positive Stop (Not Analyzed)

Initial report from: 08/08/2019 16:29:49

EMSL Analytical, Inc.
18369 Petroleum Drive Baton Rouge, LA 70809
Tel/Fax: (225) 755-1920 / (225) 755-1989
http://www.EMSL.com / batonrougelab@emsl.com

EMSL Order: 251904772
Customer ID: PPMC29
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
LC-16-05 *251904772-0035*	Fireproofing				Positive Stop (Not Analyzed)
LC-16-06 *251904772-0036*	Fireproofing				Positive Stop (Not Analyzed)
LC-16-07 *251904772-0037*	Fireproofing				Positive Stop (Not Analyzed)
LC-17-01-Wrap *251904772-0038*	Water Heater Insulation	Tan Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
LC-17-01-Insulation *251904772-0038A*	Water Heater Insulation	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-17-02-Wrap *251904772-0039*	Water Heater Insulation	Tan Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
LC-17-02-Insulation *251904772-0039A*	Water Heater Insulation	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-17-03-Wrap *251904772-0040*	Water Heater Insulation	Tan Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
LC-17-03-Insulation *251904772-0040A*	Water Heater Insulation	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-18-01-Floor Tile *251904772-0041*	Upstairs 12x12 Floor Tile w/Mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-18-01-Mastic *251904772-0041A*	Upstairs 12x12 Floor Tile w/Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-18-02-Floor Tile *251904772-0042*	Upstairs 12x12 Floor Tile w/Mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
LC-18-02-Mastic *251904772-0042A*	Upstairs 12x12 Floor Tile w/Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FS-01-01-Floor Tile *251904772-0043*	12x12 Floor Tile w/Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FS-01-01-Mastic *251904772-0043A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
FS-01-02-Floor Tile *251904772-0044*	12x12 Floor Tile w/Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FS-01-02-Mastic *251904772-0044A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
FS-02-01-Floor Tile *251904772-0045*	12x12 Floor Tile w/Mastic	Gray Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
FS-02-01-Mastic *251904772-0045A*	12x12 Floor Tile w/Mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile

Initial report from: 08/08/2019 16:29:49

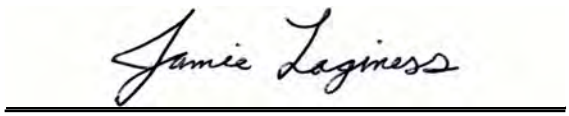
EMSL Analytical, Inc.
18369 Petroleum Drive Baton Rouge, LA 70809
Tel/Fax: (225) 755-1920 / (225) 755-1989
http://www.EMSL.com / batonrougelab@emsl.com

EMSL Order:	251904772
Customer ID:	PPMC29
Customer PO:	
Project ID:	

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
FS-02-02-Floor Tile *251904772-0046*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
FS-02-02-Mastic *251904772-0046A*	12x12 Floor Tile w/Mastic				Positive Stop (Not Analyzed)
FS-03-01 *251904772-0047*	24x48 Ceiling Tile	Gray Fibrous Homogeneous	40% Cellulose 30% Glass	30% Non-fibrous (Other)	None Detected
FS-03-02 *251904772-0048*	24x48 Ceiling Tile	Gray Fibrous Homogeneous	40% Cellulose 30% Glass	30% Non-fibrous (Other)	None Detected
FS-04-01 *251904772-0049*	Drywall	Beige Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
FS-04-02 *251904772-0050*	Drywall	Beige Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected

Analyst(s)
Jurnee West (58)



Jamie Laginess, Laboratory Operations Manager
or Other Approved Signatory

Initial report from: 08/08/2019 16:29:49

OrderID: 251904772

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 4772

PHONE:
FAX:

Company Name: PPM Consultants		EMSL Customer ID:	
Street: 289 Commerce Park Drive, Suite D.		City: Ridgeland	State/Province: MS
Zip/Postal Code: 39157	Country: US	Telephone #: 601-956-8233	Fax #:
Report To (Name): Blake Sanders		Please Provide Results: ☐ Fax ☑ Email	
Email Address: jacksonlab@ppmco.com		Purchase Order:	
Project Name/Number: 30060101 TO-09		EMSL Project ID *(Internal Use Only)*:	
U.S. State Samples Taken: Mississippi		CT Samples: ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

EMSL-Bill to: ☑ Same ☐ Different - If Bill to Is Different note Instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ☒ 1 Week | ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air ☐ Check if samples are from NY
☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
☑ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NYS 198.8 SOF-V
☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
☐ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP
☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
☐ PLM EPA 600/R-93/116 with milling prep (<1%)
☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)
☐ TEM Qualitative via Filtration Prep
☐ TEM Qualitative via Drop Mount Prep
☐ Cincinnati Method EPA 600/R-04/004 – PLM/TEM (BC only)

Other:
☐

☑ Check For Positive Stop – Clearly Identify Homogenous Group

Filter Pore Size (Air Samples): ☒ 0.8µm ☐ 0.45µm

Samplers Name: Blake Sanders

Samplers Signature:

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
LC-01-01	Tan 12x12 Floor Tile w/Mastic	01	07/24/2019
LC-01-02	Tan 12x12 Floor Tile w/Mastic	01	07/24/2019
LC-02-01	Red 12x12 Floor Tile w/Mastic	02	07/24/2019
LC-02-02	Red 12x12 Floor Tile w/Mastic	02	07/24/2019
LC-03-01	Pink 12x12 Floor Tile w/Mastic	03	07/24/2019

Client Sample # (s): LC-01-01 - FS-04-02 Total # of Samples: 50

Relinquished (Client): PPM Date: 07/31/2019 Time: 09:04

Received (Lab): K. Brown Date: 8/01/19 Time: 9:45am

Comments/Special Instructions:

Page 1 of 3 pages

(R) 7758 7908 9453
1 of 1

Controlled Document – Asbestos COC – R10 – 05/09/2016

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 4772

PHONE:
FAX:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
LC-03-02	Pink 12x12 Floor Tile w/Mastic	03	07/24/2019
LC-04-01	Gray 12x12 Floor Tile w/Mastic	04	07/24/2019
LC-04-02	Gray 12x12 Floor Tile w/Mastic	04	07/24/2019
LC-05-01	White 12x12 Floor Tile w/Mastic	05	07/24/2019
LC-05-02	White 12x12 Floor Tile w/Mastic	05	07/24/2019
LC-06-01	Yellow 12x12 Floor Tile w/Mastic	06	07/24/2019
LC-06-02	Yellow 12x12 Floor Tile w/Mastic	06	07/24/2019
LC-07-01	Light Pink 12x12 Floor Tile w/Mastic	07	07/24/2019
LC-07-02	Light Pink 12x12 Floor Tile w/Mastic	07	07/24/2019
LC-08-01	24x48 Ceiling Tile	08	07/24/2019
LC-08-02	24x48 Ceiling Tile	08	07/24/2019
LC-09-01	Drywall	09	07/24/2019
LC-09-02	Drywall	09	07/24/2019
LC-10-01	Window Caulk	10	07/24/2019
LC-10-02	Window Caulk	10	07/24/2019
LC-11-01	Green 12x12 Floor Tile w/Mastic	11	07/24/2019
LC-11-02	Green 12x12 Floor Tile w/Mastic	11	07/24/2019
LC-12-01	Dark Gray 12x12 Floor Tile w/Mastic	12	07/24/2019
LC-12-02	Dark Gray 12x12 Floor Tile w/Mastic	12	07/24/2019
LC-13-01	Roof Flashing	13	07/24/2019
LC-13-02	Roof Flashing	13	07/24/2019
LC-14-01	Side Roofing	14	07/24/2019
LC-14-02	Side Roofing	14	07/24/2019

*Comments/Special Instructions:

Page 2 of 3 pages

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 4772

PHONE:
FAX.

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
LC-15-01	Corrugated Roofing	15	07/24/2019
LC-15-02	Corrugated Roofing	15	07/24/2019
LC-16-01	Fireproofing	16	07/24/2019
LC-16-02	Fireproofing	16	07/24/2019
LC-16-03	Fireproofing	16	07/24/2019
LC-16-04	Fireproofing	16	07/24/2019
LC-16-05	Fireproofing	16	07/24/2019
LC-16-06	Fireproofing	16	07/24/2019
LC-16-07	Fireproofing	16	07/24/2019
LC-17-01	Water Heater Insulation	17	07/24/2019
LC-17-02	Water Heater Insulation	17	07/24/2019
LC-17-03	Water Heater Insulation	17	07/24/2019
LC-18-01	Upstairs 12x12 Floor Tile w/Mastic	18	07/24/2019
LC-18-02	Upstairs 12x12 Floor Tile w/Mastic	18	07/24/2019
FS-01-01	Red 12x12 Floor Tile w/Mastic	01	07/24/2019
FS-01-02	Red 12x12 Floor Tile w/Mastic	01	07/24/2019
FS-02-01	Tan 12x12 Floor Tile w/Mastic	02	07/24/2019
FS-02-02	Tan 12x12 Floor Tile w/Mastic	02	07/24/2019
FS-03-01	24x48 Ceiling Tile	03	07/24/2019
FS-03-02	24x48 Ceiling Tile	03	07/24/2019
FS-04-01	Drywall	04	07/24/2019
FS-04-02	Drywall	04	07/24/2019

***Comments/Special Instructions:**

APPENDIX D – MDEQ ASBESTOS NOTIFICATION FORM

MISSISSIPPI ASBESTOS DEMOLITION/RENOVATION NOTIFICATION FORM

Mail notification to: MDEQ Asbestos Section, 515 E. Amite Street, Jackson, MS 39201

Operator Project #	Postmark	Date Received (MDEQ use only)	Notification # (MDEQ use only)

I. Type of Notification (O=Original R=Revised C=Canceled A= Annual)

II. TYPE OF OPERATION (D=Demo O= Ordered Demo R=Renovation E=Emer. Renovation)

III. FACILITY DESCRIPTION (Include building name, number and floor or room number)

Bldg. Name:		
Address		
City:	State:	Zip:
Site Location:		Tel:
Building Size	# of Floors:	Age in Years:
Present Use:	Prior Use:	

IV. FACILITY INFORMATION (Identify owner, removal contractor, and other operator)

OWNER NAME:		
Address:		
City:	State:	Zip:
Contact:		Tel:
REMOVAL CONTRACTOR		
Address:		
City:	State:	Zip:
Contact:		Tel:
OTHER OPERATOR:		
Address:		
City:	State:	Zip:
Contact:		

V. IS ASBESTOS PRESENT? (Yes/No)

VI. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL (Include inspector name and date of inspection):

VII. APPROXIMATE AMOUNT OF ASBESTOS INCLUDING:	RACM To Be Removed	Nonfriable Asbestos Material Not To Be Removed		Indicate Unit of Measurement Below	
1. Regulated ACM to be Removed **2.** Category I ACM Not Removed **3.** Category II ACM Not Removed		Category I	Category II	UNIT	
Pipes				LnFt:	Ln M:
Surface Area				SqFt:	Sq M:
Vol RACM Off Facility Component				CuFt:	Cu M:

VIII. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY) Start: Complete:

IX. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY) Start: Complete:

Simplifying the Complex

ppmco.com

4523 Office Park Drive
Jackson, MS 39206
Phone (601) 982-3313
Fax (601) 982-7685

Schultz & Wynne
Consulting Electrical Engineers
A PROFESSIONAL ASSOCIATION

ADDENDUM NO. 1

Project: Lauderdale County - Public Safety Building Selective Demolition

Division 26 Contractor shall provide the following work.

ELECTRICAL REQUIREMENTS

Contractor shall provide new electrical service to the building with the following characteristics to be left at the facility at the end of the demolition project. Electrical service shall included utility company compliant meter base, service mast & overhead service drop. Electrical service entrance equipment shall be minimum 200A, 240/120V, 1-Phase, 3-Wire with ground, 40-circuit panelboard with 200A2P main breaker, 20A1P circuit breakers as required for lighting and construction power. Location of electrical service and panelboard shall be coordinated with the Construction Manager prior to installation.

Contractor shall provide and connect LED strip lights with the following characteristics located throughout the space after demolition on 25' centers in both directions. Provide and connect 20A1P, 120V branch circuits using Type MC Cable as required to power lighting fixtures. Lighting fixtures shall be 48" LED strip luminaires with 6000 lumen minimum output, 4000K color temperature and chain-hanger kits. On/off control of lights to be circuit breaker(s).

All work shall be provided in compliance with the National Electrical Code.

END OF REQUIREMENTS

01/28/2021