Asbestos Survey Report

H.004100 – I-10: LA 415 to Essen on I-10 & I-12
Parcel# ADV-9
990 Myrtle Street
Baton Rouge, Louisiana 70802

December 28, 2021
Terracon Project No. ET217377

Prepared for:
Louisiana Department of Transportation and Development
Baton Rouge, Louisiana

Prepared by:
Terracon Consultants, Inc.
New Orleans, Louisiana
December 28, 2021

Louisiana Department of Transportation and Development (LADOTD)
P.O. Box 94245
Baton Rouge, Louisiana 70804

Attn: Ms. Radha Kumar, DOTD Program Specialist
P: 225.242.4554
E: Radha.Kumar@la.gov

Re: Asbestos Survey Report
H.004100 – I-10: LA 415 to Essen on I-10 & I-12
Parcel# ADV-9
990 Myrtle Street
Baton Rouge, Louisiana 70802
Terracon Project No. ET217377

Dear Ms. Kumar:

The purpose of this report is to present the results of the asbestos survey performed at the former residential/commercial structure located at 990 Myrtle Street in Baton Rouge, Louisiana. This survey was conducted in general accordance with Terracon’s Right of Way Consultant Task Order Assignment dated December 14, 2021 and the IDIQ Contract for Right of Way Services (Contract No. 40000125) dated November 19, 2020. Terracon understands that this survey was requested due to the planned demolition of the structure.

Asbestos-containing materials were not identified at the subject site. Please refer to the attached report for details.

Terracon appreciates the opportunity to provide this service. If you have any questions regarding this report, please contact the undersigned at (504) 818-3638.

Sincerely,

Terracon Consultants, Inc.

for:

Adam M. McEvoy
Assistant Project Manager

Jason M. Maloney, P.E.
Department Manager
TABLE OF CONTENTS

1.0 INTRODUCTION.....................................................................................................................1
  1.1 Project Objective.................................................................................................................1
2.0 BUILDING DESCRIPTION......................................................................................................1
3.0 FIELD ACTIVITIES ..............................................................................................................2
  3.1 Visual Assessment........................................................................................................2
  3.2 Physical Assessment ..........................................................................................................2
  3.3 Sample Collection ..............................................................................................................2
  3.4 Sample Analysis ................................................................................................................3
4.0 REGULATORY OVERVIEW ..................................................................................................3
5.0 FINDINGS & RECOMMENDATIONS ...................................................................................5
6.0 GENERAL COMMENTS ........................................................................................................5

APPENDIX A – Asbestos Survey Sample Summary
APPENDIX B – Laboratory Analytical Reports
APPENDIX C – Photograph Log
APPENDIX D – Exhibits
APPENDIX E – Certifications
1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of the above referenced structure located at 990 Myrtle Street in Baton Rouge, Louisiana. The survey was conducted by a Louisiana Department of Environmental Quality (LDEQ) accredited asbestos inspector. The asbestos survey was conducted in accordance with Terracon’s Right of Way Consultant Task Order Assignment dated December 14, 2021 and the IDIQ Contract for Right of Way Services (Contract No. 40000125) dated November 19, 2020.

1.1 Project Objective

The scope of services included a survey for asbestos-containing materials (ACM) in compliance with the United States Environmental Protection Agency (USEPA) regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP), and Louisiana Environmental Regulatory Code (ERC) Title 33, Part III, Section 5151 (Chapter 51), which prohibit the release of asbestos fibers to the atmosphere during renovation or demolition activities. The asbestos NESHAP and Chapter 51 require that potentially regulated asbestos-containing building materials be identified, classified and quantified prior to planned disturbances during demolition or renovation activities.

2.0 BUILDING DESCRIPTION

The subject site consisted of an approximately 850-square foot, one-story, wood framed residential house with wooden siding. The building had been converted into a barber shop from a single-family residence. Interior finishes generally consisted of wood paneling or gypsum wallboard walls and ceilings with various ceramic and vinyl floor tiles.
3.0 FIELD ACTIVITIES

The asbestos survey was conducted by LDEQ accredited asbestos inspector Adam McEvoy (AI#: 201568). The survey was conducted in general accordance with the sample collection protocols established in EPA regulation 40 CFR 763, the Asbestos Hazard Emergency Response Act (AHERA). A summary of survey activities is provided below.

3.1 Visual Assessment

Our survey activities began with visual observations of the interior and exterior of the building proposed for demolition to identify homogeneous areas of suspect ACM. A homogeneous area consists of building materials that appear similar throughout in terms of color, and texture with consideration given to the date of application. Building materials identified as glass, wood, metal or rubber were not considered suspect ACM.

Although reasonable effort was made to survey accessible suspect materials, such as under floor coverings or behind ceilings and walls, additional suspect but un-sampled materials could be located in walls, in voids, or in other concealed areas.

3.2 Physical Assessment

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the EPA as a material that can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

3.3 Sample Collection

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance with AHERA sampling protocols. Random samples of suspect materials were collected in each homogeneous area. The inspector collected bulk samples using wet methods as applicable to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker.

Thirty-one bulk samples were collected from nine homogeneous areas of suspect ACM from the structure. A summary of suspected ACM materials collected during the survey is included as Appendix A. Selective photographs of homogeneous areas are presented in Appendix C.
3.4 Sample Analysis

Bulk samples were submitted under chain-of-custody to CA Labs, LLC of Baton Rouge, Louisiana (NVLAP Accreditation No 200772-0, LELAP Accreditation No 03069) for analysis by polarized light microscopy with dispersion staining techniques per EPA methods (40 CFR 763, Subpart E). The asbestos content, where applicable, was determined by microscopic visual estimation. The laboratory analytical report is included in Appendix B.

4.0 REGULATORY OVERVIEW

The asbestos NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. The asbestos NESHAP regulation also requires the identification and classification of existing ACM according to friability prior to demolition or renovation activity. Under NESHAP, ACM is identified as either friable, Category I non-friable or Category II non-friable ACM. Friable ACM is a material containing more than 1% asbestos that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. All friable ACM is considered regulated asbestos containing material (RACM).

RACM includes all friable ACM, along with Category I and Category II non-friable ACM that has become friable, will be or has been subjected to sanding, grinding, cutting or abrading, or ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder in the course of renovation or demolition activity.

Category I non-friable ACM are exclusively asbestos-containing packings, gaskets, resilient floor coverings, resilient floor covering mastics and asphalt roofing products that contain more than 1% asbestos. Category II non-friable ACM are all other non-friable materials other than Category I non-friable ACM that contain more than 1% asbestos. Category II non-friable ACM generally includes but is not limited to cementitious material such as: cement pipes, cement siding, cement panels, glazing, mortar and grouts.

The State of Louisiana has established Chapter 27 of the ERC (LAC 33:III.Chapter 27) to regulate the identification, management, and abatement of ACM in schools and state buildings. Chapter 27 requires any asbestos-related activity in a school or state building to be performed by an individual or company accredited by the State of Louisiana, through the LDEQ. An asbestos-related activity consists of the disturbance (whether intentional or unintentional) or abatement of ACM, the performance of asbestos surveys, the development of management plans and response actions, asbestos project design, the collection or analysis of asbestos samples, monitoring for airborne asbestos or any other activity required to be accredited under Louisiana Department of Environmental Quality Chapter 27 Appendix A.
In non-state, non-school buildings, the State of Louisiana sets forth emission standards for asbestos under Chapter 51 of the ERC (LAC 33:III.Chapter 51). Per Chapter 51 Section P, the following activities, when conducted, must be performed by accredited individuals: asbestos surveys, asbestos abatement, and monitoring for airborne asbestos.

The Louisiana Air Quality Regulations (LAC 33:III.Chapter 51, Subchapter M) require that an inspection be conducted by a person currently accredited as an LDEQ asbestos inspector. LDEQ requires a notification by submitting either an AAC-2 (a) form or AAC-2 (b) form. An AAC 2 (a) form is required when requesting Asbestos Disposal Verification Forms (ADVF) for Asbestos Contaminated Debris Activities (ACDA), Demolition, Renovation, and/or Response Action projects where Regulated Asbestos Containing Material (RACM) is present, or assumed to be present, above the established thresholds or as otherwise required by LAC 33:III.5151.F.1. The AAC-2 (a) form must be either postmarked or hand delivered to the Department at least 10 working days prior to the scheduled dates of asbestos removal. An AAC 2 (b) form is required when greater than 64 square feet of Vinyl Asbestos Tile (VAT) is removed without the intent of making it RACM, or when lab analysis of properly sampled materials indicates that no ACM is present; that ACM present is not RACM and will not be made RACM by the demolition; or that all RACM present is less than established thresholds. The established thresholds per LAC 33:III.5151.F.1 include the combined amount of RACM less than 60 linear feet on pipes, 64 square feet on other facility components or 27 cubic feet of material where length or area could not be measured previously. A Form AAC-2 (b) must be postmarked or hand delivered to the Department at least 5 working days prior to the scheduled date of asbestos removal or 3 working days if the removal only includes resilient floor covering per LAC 33:III.5151.F.2.c.

Any individual or company contracted to perform a demolition or renovation activity that disturbs RACM above established regulatory thresholds must be recognized by the Louisiana Licensing Board for Contractors to perform asbestos abatement.

The United States Occupational Safety and Health Administration (USOSHA) asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The USOSHA standard requires that employee exposure to airborne asbestos must not exceed 0.1 fibers per cubic centimeter of air (0.1 f/cc) as an eight-hour time weighted average (TWA) and not exceed 1.0 fibers per cubic centimeter of air (1.0 f/cc) over a 30-minute time period known as an excursion limit (EL). The TWA and EL are known as USOSHA’s asbestos permissible exposure limits (PELs). The USOSHA standard classifies construction and maintenance activities that could disturb ACM and specifies work practices and precautions that employers must follow when engaging in each class of regulated work. The standard also specifies requirements for handling materials containing asbestos in concentrations less than or equal to 1%.
5.0 FINDINGS & RECOMMENDATIONS

Asbestos was not detected in the samples collected and analyzed as part of our sampling at this site.

Results of this survey did not identify asbestos-containing materials, however, LDEQ requires written notification [AAC-2 (b)] be submitted along with the results of this survey prior to any demolition activity, regardless of whether the building contains asbestos.

It should be noted that suspect materials, other than those identified during this survey, may exist within the building. Should suspect materials other than those that were identified during this survey be uncovered during the demolition process, the material(s) must be assumed to contain asbestos and treated as such unless sampled by an accredited inspector and laboratory analysis determines otherwise.

A summary of each material sampled and analyzed is presented in Appendix A. Laboratory analytical reports are presented in Appendix B.

6.0 GENERAL COMMENTS

This asbestos survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the building. The information contained in this report is relevant to the date on which this survey was performed and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by Louisiana Department of Transportation and Development for specific application to their project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.
APPENDIX A
ASBESTOS SURVEY SAMPLE SUMMARY
<table>
<thead>
<tr>
<th>HA</th>
<th>Material Description</th>
<th>Material Location</th>
<th>Condition</th>
<th>Sample Number</th>
<th>Lab Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Red 12&quot;x12&quot; Floor Tile with Yellow Adhesive</td>
<td>Rooms 1, 2, 3, 4, 5, Hall 1&amp;2</td>
<td>Good</td>
<td>01-01</td>
<td>None Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>01-02</td>
<td>None Detected</td>
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<td></td>
<td></td>
<td></td>
<td>01-03</td>
<td>None Detected</td>
</tr>
<tr>
<td>02</td>
<td>White 12&quot;x12&quot; Floor Tile with Yellow Adhesive</td>
<td>Rooms 1, 2, 3, 4, 5, Hall 1&amp;2</td>
<td>Good</td>
<td>02-04</td>
<td>None Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>02-05</td>
<td>None Detected</td>
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<td></td>
<td></td>
<td></td>
<td>02-06</td>
<td>None Detected</td>
</tr>
<tr>
<td>03</td>
<td>White Popcorn Ceiling Texture</td>
<td>Ceilings Throughout</td>
<td>Good</td>
<td>03-07</td>
<td>None Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>03-08</td>
<td>None Detected</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>03-09</td>
<td>None Detected</td>
</tr>
<tr>
<td>04</td>
<td>White Wall Texture</td>
<td>Throughout except for Room 3, 6, and Bathroom 2 (Behind Wood Wall Paneling in Rooms 1, 4, 5 and Hall 2)</td>
<td>Good</td>
<td>04-10</td>
<td>None Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>04-11</td>
<td>None Detected</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>04-12</td>
<td>None Detected</td>
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<td></td>
<td></td>
<td>04-13</td>
<td>None Detected</td>
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<td></td>
<td></td>
<td>04-14</td>
<td>None Detected</td>
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<td></td>
<td>04-15</td>
<td>None Detected</td>
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<td></td>
<td></td>
<td>04-16</td>
<td>None Detected</td>
</tr>
<tr>
<td>05</td>
<td>White Wallboard with Joint Compound</td>
<td>Throughout</td>
<td>Good</td>
<td>05-17</td>
<td>None Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>05-18</td>
<td>None Detected</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>05-19</td>
<td>None Detected</td>
</tr>
<tr>
<td>HA</td>
<td>Material Description</td>
<td>Material Location</td>
<td>Condition</td>
<td>Sample Number</td>
<td>Lab Results</td>
</tr>
<tr>
<td>----</td>
<td>--------------------------------------------------------------------------------------</td>
<td>--------------------------------------------</td>
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</tr>
<tr>
<td>06</td>
<td>Gray/White Ceramic Floor Tile with Gray Grout, Gray Grout, White Thinset, White Vapor Barrier and Gray Grout Bed</td>
<td>Bathroom 1</td>
<td>Good</td>
<td>06-20</td>
<td>None Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>06-21</td>
<td>None Detected</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>06-22</td>
<td>None Detected</td>
</tr>
<tr>
<td>07</td>
<td>Gray/Brown Floor Tile with Gray Grout, Gray Grout, White Thinset, White Vapor Barrier and Gray Grout Bed</td>
<td>Bathroom 2</td>
<td>Good</td>
<td>07-23</td>
<td>None Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>07-24</td>
<td>None Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>07-25</td>
<td>None Detected</td>
</tr>
<tr>
<td>08</td>
<td>Yellow Brown Wall Panel Adhesive</td>
<td>Behind Wood Wall Paneling in Rooms 1, 4, 5 and Hall 2</td>
<td>Good</td>
<td>08-26</td>
<td>None Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>08-27</td>
<td>None Detected</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>08-28</td>
<td>None Detected</td>
</tr>
<tr>
<td>09</td>
<td>Black Roof Shingles with Black Tar Paper</td>
<td>Roof</td>
<td>Good</td>
<td>09-29</td>
<td>None Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>09-30</td>
<td>None Detected</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>09-31</td>
<td>None Detected</td>
</tr>
</tbody>
</table>
APPENDIX B
LABORATORY ANALYTICAL REPORTS
A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Discussion

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

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

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

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

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

Qualifications

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

<table>
<thead>
<tr>
<th>Customer Project:</th>
<th>H.004100 990 Myrtle St.</th>
<th>CA Labs Project #:</th>
<th>CBR21128906Amend</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample #</td>
<td>Layer # Analysists Physical Description of Subsample</td>
<td>Asbestos type / calibrated visual estimate percent</td>
<td>List of Affected Building Material Types</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**No Asbestos Detected.**

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

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

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs’ current terms and conditions of sale, including the company’s standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.
## Polarized Light Asbestiform Materials Characterization

### Customer Info:
- **Atttn:** Steven Latiolais
- **Terraco Consultants:**
  - 524 Elmwood Park Blvd #170
  - New Orleans, LA 70123

### Phone #
- 318-787-3269

### Turnaround Time:
- 24 hr

### Samples Received:
- 12/22/2021

### Date Of Sampling:
- 12/22/2021

### Purchase Order #:
- ET217377

### Table:

<table>
<thead>
<tr>
<th>Sample #</th>
<th>Comment</th>
<th>Layer #</th>
<th>Analysts Physical Description of Subsample</th>
<th>Homogeneous (Y/N)</th>
<th>Asbestos type / calibrated visual estimate percent</th>
<th>Non-asbestos fiber type / percent</th>
<th>Non-fibrous type / percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>01-01</td>
<td>01-1</td>
<td>Red Floor Tile</td>
<td>Y None Detected</td>
<td>100% qu, ca</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>01-02</td>
<td>02-1</td>
<td>Red Floor Tile</td>
<td>Y None Detected</td>
<td>100% qu, ca</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>01-03</td>
<td>03-1</td>
<td>Red Floor Tile</td>
<td>Y None Detected</td>
<td>100% qu, ca</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>01-04</td>
<td>04-1</td>
<td>White Floor Tile</td>
<td>Y None Detected</td>
<td>100% qu, ca</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Analysis Method:
- Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)

### Preparation Method:
- HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining becke line method.

### Approved Signatories:
- **Sidney Pinkerton**
  - Senior Analyst
  - Laboratory Director
- **Alicia Stretz**
  - Analyst
- **Chris Williams**

---

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on Vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested
### Polarized Light Asbestiform Materials Characterization

**Sample #** | **Com.** | **Layer #** | **Analysts Physical Description of Subsample** | **Homogeneous (Y/N)** | **Asbestos type / calibrated visual estimate percent** | **Non-asbestos fiber type / percent** | **Non-fibrous type / percent**

| 04-2 | Yellow Mastic | Y | None Detected | | | 100% qu, bi |
| 02-05 | White Floor Tile | Y | None Detected | | | 100% qu, ca |
| 05-2 | Yellow Mastic | Y | None Detected | | | 100% qu, bi |
| 02-06 | White Floor Tile | Y | None Detected | | | 100% qu, ca |
| 06-2 | Yellow Mastic | Y | None Detected | | | 100% qu, bi |
| 03-07 | White Textured Surfacing | N | None Detected | | | 100% qu, mi, bi, ca, ot |
| 03-08 | White Textured Surfacing | N | None Detected | | | 100% qu, mi, bi, ca, ot |

**Analysis Method:** Interim (40 CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)

**Preparation Method:** HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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

---

**Approved Signatories:**

- Sidney Pinkerton, Senior Analyst
- Alicia Stretz, Analyst
- Chris Williams, Laboratory Director

---

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

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069
### Polarized Light Asbestiform Materials Characterization

<table>
<thead>
<tr>
<th>Sample #</th>
<th>Comment</th>
<th>Layer #</th>
<th>Analysts Physical Description of Subsample</th>
<th>Homogeneous (Y/N)</th>
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<th>Non-fibrous type / percent</th>
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<tbody>
<tr>
<td>03-09</td>
<td>09-1</td>
<td>None Detected</td>
<td>100% qu, mi, bi, ca, ot</td>
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<tr>
<td>04-10</td>
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<td>100% qu, mi, bi, ca</td>
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Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

Approved Signatories:

Sidney Pinkerton
Senior Analyst
Alicia Stretz
Laboratory Director

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---

CA Labs, L.L.C.
Dedicated to Quality

CA Labs Project #: CBR21128906Amend

Date: 12/24/2021

Turnaround Time: 24 hr

Samples Received: 12/22/2021

Date Of Sampling: 12/22/2021

Purchase Order #: ET217377

---

Steven Latiolais
CA Labs Project #:

---

CA Labs

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

NVLAP #200772-0
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Steven Latiolais
### Polarized Light Asbestiform Materials Characterization

**Customer Info:**

- **Attn:** Steven Latiolais
- **Customer Project:** H.004100
- **CA Labs Project #:** CBR21128906Amend

---

**Sample Information:**

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<th>Non-fibrous type / percent</th>
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<td>N</td>
<td>White Paint White Compound</td>
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<td>100% qu, mi, bi, ca</td>
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**Analysis Method:** Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)

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- HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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**Approved Signatories:**

- **Sidney Pinkerton**
  - Analyst
- **Alicia Stretz**
  - Senior Analyst
- **Chris Williams**
  - Laboratory Director

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<td>17-1</td>
<td>White Paint White Compound</td>
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<td>None Detected</td>
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<tr>
<td></td>
<td></td>
<td>17-2</td>
<td>White Drywall with Paper</td>
<td>N</td>
<td>None Detected</td>
<td>10% ce</td>
<td>90% qu, gy</td>
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<tr>
<td>05-18</td>
<td></td>
<td>18-1</td>
<td>White Paint White Compound</td>
<td>N</td>
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<td>100% qu, mi, bi, ca</td>
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<tr>
<td></td>
<td></td>
<td>18-2</td>
<td>White Drywall with Paper</td>
<td>N</td>
<td>None Detected</td>
<td>10% ce</td>
<td>90% qu, gy</td>
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<td></td>
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<td>White Paint White Compound</td>
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<tr>
<td></td>
<td></td>
<td>19-2</td>
<td>White Drywall with Paper</td>
<td>N</td>
<td>None Detected</td>
<td>10% ce</td>
<td>90% qu, gy</td>
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<tr>
<td>06-20</td>
<td></td>
<td>20-1</td>
<td>Tan Ceramic Tile</td>
<td>Y</td>
<td>None Detected</td>
<td>100% qu, ot</td>
<td></td>
</tr>
</tbody>
</table>

### Analysis Method:
Interim (40 CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)

### Preparation Method:
HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

### Approved Signatories:
- **Sidney Pinkerton**
  - Analyst
- **Steven Latiolais**
  - CA Labs Project #:
- **CA Labs Project #:**
- **Date:** 12/24/2021
- **Turnaround Time:** 24 hr
- **Samples Received:** 12/22/2021
- **Date Of Sampling:** 12/22/2021
- **Purchase Order #:** ET217377

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524 Elmwood Park Blvd #170
New Orleans, LA 70123

Sidney Pinkerton
Senior Analyst

Alicia Stretz
Laboratory Director

Chris Williams
## Polarized Light Asbestiform Materials Characterization

### Customer Info:
- **Attn:** Steven Latiolais
- **Terracon Consultants**
  524 Elmwood Park Blvd #170
  New Orleans, LA 70123
- **Phone:** 318-787-3269
- **Fax:**

### Customer Project:
- **CA Labs Project #:** CBR21128906Amend
- **Date:** 12/24/2021
- **Turnaround Time:** 24 hr
- **Samples Received:** 12/22/2021
- **Date Of Sampling:** 12/22/2021
- **Purchase Order #:** ET217377

### Laboratory Director
- **Chris Williams**

### Analysts Physical Description of Subsample

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>20-2</td>
<td></td>
<td></td>
<td>Tan Grout</td>
<td>N</td>
<td>None Detected</td>
<td>100% qu, ma, ca</td>
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<tr>
<td>20-3</td>
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<td></td>
<td>Gray Leveling Plaster</td>
<td>Y</td>
<td>None Detected</td>
<td>100% qu, ma, ca</td>
<td></td>
</tr>
<tr>
<td>06-21</td>
<td></td>
<td></td>
<td>Tan Ceramic Tile</td>
<td>Y</td>
<td>None Detected</td>
<td>100% qu, ot</td>
<td></td>
</tr>
<tr>
<td>21-1</td>
<td></td>
<td></td>
<td>Tan Ceramic Tile</td>
<td>Y</td>
<td>None Detected</td>
<td>100% qu, ot</td>
<td></td>
</tr>
<tr>
<td>21-2</td>
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<td>Tan and White Grout</td>
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<td>100% qu, ma, ca</td>
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<tr>
<td>21-3</td>
<td></td>
<td></td>
<td>Gray Leveling Plaster</td>
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<tr>
<td>06-22</td>
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<td>Tan Ceramic Tile</td>
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<tr>
<td>22-1</td>
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<td>22-2</td>
<td></td>
<td></td>
<td></td>
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- Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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### Approved Signatories:
- **Sidney Pinkerton**
  Analyst
- **Alicia Stretz**
  Senior Analyst
- **Chris Williams**
  Laboratory Director

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**Polarized Light Asbestiform Materials Characterization**

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<tr>
<td>22-3</td>
<td>Gray Leveling Plaster</td>
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<td>100% qu, ma, ca</td>
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<tr>
<td>07-23</td>
<td>23-1 Tan Ceramic Tile</td>
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<td>100% qu, ot</td>
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<tr>
<td>23-2</td>
<td>Tan and White Grout</td>
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<td>None Detected</td>
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<td>100% qu, ma, ca</td>
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<tr>
<td>23-3</td>
<td>Gray Leveling Plaster</td>
<td>Y</td>
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<tr>
<td>07-24</td>
<td>24-1 Tan Ceramic Tile</td>
<td>Y</td>
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<td>100% qu, ot</td>
<td></td>
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<tr>
<td>24-2</td>
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<td>100% qu, ma, ca</td>
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<td>24-3</td>
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<td>None Detected</td>
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<td>100% qu, ma, ca</td>
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**Analysis Method:** Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)

**Preparation Method:** HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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  - Analyst
- **Steven Latiolais**
  - Senior Analyst
- **Alicia Stretz**
  - Laboratory Director
- **Chris Williams**
  - Laboratory Director
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### Customer Info:
- **Attn:** Steven Latiolais
- **Terracon Consultants**
  - 524 Elmwood Park Blvd #170
  - New Orleans, LA 70123
- **Phone #** 318-787-3269
- **Fax #**

### Customer Project:
- **H.004100**
- 990 Myrtle St.

### CA Labs Project #:
- **CBR21128906Amend**

### Date:
- 12/24/2021

### Turnaround Time:
- 24 hr

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### Date Of Sampling:
- 12/22/2021

### Purchase Order #:
- ET217377

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<td>100% qu, ot</td>
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<td>08-26</td>
<td>26-1</td>
<td>Yellow Mastic</td>
<td>Y None Detected</td>
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<td></td>
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<td>Yellow Mastic</td>
<td>Y None Detected</td>
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<td>28-1</td>
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<td>29-1</td>
<td>Black Shingle with Tan Gravel</td>
<td>Y None Detected</td>
<td></td>
<td>15% fg</td>
<td>85% qu, bi</td>
<td></td>
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</tbody>
</table>

### Analysis Method:
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### Preparation Method:
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- **Sidney Pinkerton**
  - Senior Analyst
- **Alicia Stretz**
  - Laboratory Director
- **Chris Williams**
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**Customer Info:** Attn: Customer Project: 12/24/2021 24 hr 12/22/2021 Phone # 12/22/2021 Fax # ET217377

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<td>Black Felt</td>
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<td>40% ce</td>
<td>60% qu, bi</td>
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<td>30-1 Black Shingle with Tan Gravel</td>
<td>Y</td>
<td>None Detected</td>
<td></td>
<td>15% fg</td>
<td>85% qu, bi</td>
<td></td>
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<tr>
<td>30-2</td>
<td>Black Felt</td>
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<td>None Detected</td>
<td></td>
<td>40% ce</td>
<td>60% qu, bi</td>
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<td>09-31</td>
<td>31-1 Black Shingle with Tan Gravel</td>
<td>Y</td>
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<td>15% fg</td>
<td>85% qu, bi</td>
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<tr>
<td>31-2</td>
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<td>None Detected</td>
<td></td>
<td>40% ce</td>
<td>60% qu, bi</td>
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Phone 225-751-5632  
Fax 225-751-5634  

CA Labs Project #: CBR21128906Amend  
Date: 12/24/2021  
Turnaround Time: 24 hr  
Samples Received: 12/22/2021  
Date Of Sampling: 12/22/2021  
Purchase Order #: ET217377  

Terracon Consultants  
524 Elmwood Park Blvd #170  
New Orleans, LA 70123  
Phone # 318-787-3269  
Fax #

---

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

Terracon Consultants  
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524 Elmwood Park Blvd #170  
New Orleans, LA 70123  
Phone # 318-787-3269  
Fax #
Chain of Custody

Client Name: Terracon New Orleans
Client Address: 524 Elmwood Park Blvd.
               Suite 170
               New Orleans, LA 70123
phone number: 504.818.3638
fax number: 504.818.3890
Project Number: ET217377
Contact: Adam McEvoy

CA Labs job #:
CBR 2128906
Billing Address: Same
Send Reports to:
adam.mcevoy@terracon.com
jason.maloney@terracon.com

Project Name: 1004 100 - 990 Myrtle St
Reports Results

Total # Samples Submitted: 31
Total # Samples to be Analyzed: 31
Material Matrix: Air / Bulk / Water

Asbestos: Please call ahead for availability of all rush and/or after hours samples.

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<tr>
<th>TEM</th>
<th>TA Time</th>
<th>PLM</th>
<th>TA Time</th>
<th>Optical / IAQ</th>
<th>TA Time</th>
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<td></td>
<td></td>
<td>2 hour</td>
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<tr>
<td>AHERA</td>
<td>4 hour</td>
<td>Improved</td>
<td>4 hour</td>
<td>tape/bulk/swab</td>
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<td>EPA Level II</td>
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<td>Interim</td>
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<td>Cyclex-d cassettes</td>
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<td>Drinking Water</td>
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<td>Air-o-cell cassettes</td>
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<td>Wipe</td>
<td>24 hour</td>
<td>AHERA</td>
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<td>Anderson cultures</td>
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<td>Micro-vac</td>
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<td>2 days</td>
<td>Bulk/swab cultures</td>
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<tr>
<td>NIOSH 7402</td>
<td>3 days</td>
<td>Point Count -</td>
<td>3 days</td>
<td>Bacteria cultures</td>
<td>3 days</td>
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<td>Chatfield Bulk</td>
<td>5 days</td>
<td>(NESHAPS)</td>
<td>5 days</td>
<td>PCM: NIOSH 7400</td>
<td>5-10 days</td>
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Lead: Circle analysis and TA time

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<tr>
<td>Paint Chips</td>
<td>8 hour</td>
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<tr>
<td>Soil</td>
<td>1 day</td>
</tr>
<tr>
<td>Air</td>
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<td>Wipes</td>
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<td>Wastewater</td>
<td>5 days</td>
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<tr>
<td>TCLP</td>
<td>6-10 days</td>
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Sample Information:

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<th>Sample Date/Time</th>
<th>Sample Volume (L)</th>
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<tr>
<td></td>
<td></td>
<td>Please See Attached</td>
<td>12-22-21</td>
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Sample Information:

Custody Information:
Samples relinquished:
Signature / Date / Time

Samples received:
Signature / Date / Time

Samples relinquished:
Signature / Date / Time

Samples received:
Signature / Date / Time
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<tr>
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<th>Sample Location</th>
<th>HA Description (Color, Dimensions, Descriptor, then Type)</th>
<th>HA General Location</th>
<th>Estimated Quantity</th>
<th>Condition</th>
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<tbody>
<tr>
<td>01-01</td>
<td>1</td>
<td>Red 12&quot; x 12&quot; Floor Tile w/ Yellow Adhesive</td>
<td>1, 2, 3, 4, 5, 6, 7, 8, 9, 10</td>
<td>600 SF</td>
<td>G D SD</td>
</tr>
<tr>
<td>01-02</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
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</tr>
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<td>02-01</td>
<td>1</td>
<td>White 12&quot; x 12&quot; Floor Tile w/ Yellow Adhesive</td>
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</tr>
<tr>
<td>02-02</td>
<td>3</td>
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<td>02-03</td>
<td>5</td>
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<td>03-01</td>
<td>1</td>
<td>White Popcorn Ceiling Texture</td>
<td>Throughout</td>
<td>850 SF</td>
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<td>03-02</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
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<td>03-03</td>
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<tr>
<td>04-01</td>
<td>2</td>
<td>White Wall Texture</td>
<td>Throughout except Bathrooms &amp; Rooms 3, 4, 5, 6, 7, 8, 9, 10, 11</td>
<td>900 SF</td>
<td>G D SD</td>
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<tr>
<td>04-02</td>
<td>Hall 4</td>
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<td>04-07</td>
<td>Hall 1</td>
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<td>04-08</td>
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<tr>
<td>05-01</td>
<td>2</td>
<td>White Wallboard w/ Joint Compound</td>
<td>Throughout</td>
<td>6500 SF</td>
<td>G D SD</td>
</tr>
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<td>05-02</td>
<td>3</td>
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</tr>
<tr>
<td>05-03</td>
<td>6</td>
<td></td>
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</tr>
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</table>

* Condition: G = Good, D = Difficult, SD = Special Difficulties
<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Sample Location</th>
<th>HA Description (Color, Dimensions, Descriptor, then Type)</th>
<th>HA General Location</th>
<th>Estimated Quantity</th>
<th>Condition</th>
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</thead>
<tbody>
<tr>
<td>06-20</td>
<td>Bath 1</td>
<td>Gray / White Ceramic Floor Tile</td>
<td>Bath 1</td>
<td>100 SF</td>
<td>G D SD</td>
</tr>
<tr>
<td>06-21</td>
<td>V</td>
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</tr>
<tr>
<td>06-22</td>
<td>Bath 2</td>
<td>Gray / Brown Ceramic Floor Tile</td>
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<tr>
<td>07-23</td>
<td>Bath 2</td>
<td>Gray / Brown Ceramic Floor Tile</td>
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</tr>
<tr>
<td>07-24</td>
<td>L</td>
<td>Gray / Brown Ceramic Floor Tile</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>07-25</td>
<td>L</td>
<td></td>
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<tr>
<td>08-26</td>
<td>S</td>
<td>Yellow Brown Wall Panel</td>
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<tr>
<td>08-27</td>
<td>Y</td>
<td>Adhesive</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>08-28</td>
<td>1</td>
<td>Black Roof Shingles / Black</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09-29</td>
<td>Red</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09-30</td>
<td>L</td>
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<td>09-31</td>
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</table>

Page 1 of ___
APPENDIX C
PHOTOGRAPH LOG
Photograph No. 1
HA-01: Red 12"x12" Floor Tile & HA-02: White 12"x12" Floor Tile

Photograph No. 2
HA-04: White Wall Texture

Photograph No. 3
HA-05: White Wallboard with Joint Compound

Photograph No. 4
HA-06: Gray/White Ceramic Floor Tile with Gray Grout
Homogenous Areas

Photograph No. 5
HA-07: Gray/Brown Ceramic Floor Tile with Gray Grout

Photograph No. 6
HA-09: Black Roof Shingles
APPENDIX D
EXHIBITS
EXHIBIT ASBESTOS BULK SAMPLE LOCATIONS

LEGEND

ASBESTOS BULK SAMPLE LOCATIONS

- ROOM 1
- ROOM 2
- ROOM 3
- ROOM 4
- ROOM 5
- ROOM 6
- HALL 1
- HALL 2
- BATHROOM 1
- BATHROOM 2

THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES.
APPENDIX E
CERTIFICATIONS
Read Receipt Requested

AI No. 165918
Activity No. ACC20210001
LELAP Lab ID # 03069
Accreditation Year FY 2022
Renewal due FY 2025

Mr. Christopher Williams
CA Laboratories LLC
12232 Industriplex Blvd Ste 32
Baton Rouge, Louisiana  70809

Re:  Renewal Scope of Accreditation

Dear Mr. Williams:

On May 12, 2021, the Louisiana Environmental Laboratory Accreditation Program (LELAP) received a renewal application for Accreditation.

The Louisiana Department of Environmental Quality’s laboratory accreditation program, in accordance with Louisiana Administrative Code, Title 33, Part I, Subpart 3, Laboratory Accreditation, accredits this laboratory for Fiscal Year 2022. This accreditation does not constitute an endorsement of the suitability of the listed methods for any specific purpose. Accreditation of the environmental laboratory does not imply that a product, process, system, or person is approved by LELAP. The laboratory is accredited for the methods as identified on the application for accreditation; if the methods are partially identified on the application for accreditation, the laboratory is accredited for the versions listed on the current application or referenced in the laboratory standard operating procedure.

Louisiana Environmental Laboratory Accreditation Program (LELAP) accreditation is granted only for those methods/analytes for which “STATE” is indicated as the type of accreditation. Accreditation is dependent on the laboratory’s successful ongoing compliance with regulations as outlined in the Louisiana Administrative Code, Title 33, Part I, Subpart 3, Laboratory Accreditation.

The accreditation certificate is the property of the State of Louisiana. Should your accreditation be suspended or revoked, your laboratory must return the certificate of accreditation to the department and delete any electronic copies until your accreditation status is restored.

LAC 33:I.5313.A requires that the laboratory report include all relevant information. Therefore, the certificate number shall be placed in the upper right corner of all laboratory reports. If the test report
includes results of any test for which the laboratory is not accredited, the unaccredited results must be clearly identified as such.

We request that you examine the scope of accreditation attachment for accuracy and completeness. If you find that an analyte for which you expected to be accredited is not listed, please examine your records to ensure that:

1. You have met the requirements for successful participation in proficiency test studies as outlined in LAC 33:1.4711.

2. In the case of accreditation by recognition, the requested analyte must be listed for the requested method and matrix on both the certificate issued by the Primary Accreditation Body and on the Louisiana application form.

If after reviewing this information, the scope and/or certificate are inaccurate, please notify us immediately.

If you have any questions, please contact your assigned assessor Jacob P. Byrd, Environmental Scientist at (225) 219-7585.

Sincerely,

Cheryl Sonnier Nolan
Administrator
Public Participation and Permit Support Services Division

CSN:KHW:jpb
STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Is hereby granting a Louisiana Environmental Laboratory Accreditation to

CA Laboratories LLC
12232 Industriplex Blvd Ste 32
Baton Rouge, Louisiana 70809

Agency Interest No. 165918
Activity No. ACC20210001

According to the Louisiana Administrative Code, Title 33, Part I, Subpart 3, LABORATORY ACCREDITATION, the State of Louisiana formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed in the attachment.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part I, Subpart 3 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part I. Please contact the Department of Environmental Quality, Louisiana Environmental Laboratory Accreditation Program (LELAP) to verify the laboratory’s scope of accreditation and accreditation status.

Accreditation by the State of Louisiana is not an endorsement or a guarantee of validity of the data generated by the laboratory. Accreditation of the environmental laboratory does not imply that a product, process, system, or person is approved by LELAP. To be accredited initially and maintain accreditation, the laboratory agrees to participate in two single-blind, single-concentration PT studies, where available, per year for each field of testing for which it seeks accreditation or maintains accreditation as required in LAC 33:1.4711.

Cheryl Sonnier Nolan
Administrator
Public Participation and Permit Support Services Division

Issued Date: 14 May 2021
Effective Date: July 1, 2021
Expiration Date: June 30, 2022
Certificate Number: 03069
## Air Emissions

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<th>Method Code</th>
<th>Type</th>
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<tbody>
<tr>
<td>100173 - Asbestos by Phase Contrast</td>
<td>NIOSH 7400 (A Rules)</td>
<td>899</td>
<td>State</td>
<td>LA</td>
</tr>
<tr>
<td>Microscopy</td>
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<td>100171 - Asbestos by Transmission</td>
<td>EPA Level II Contract #68-02-3266</td>
<td>2020</td>
<td>NVLAP</td>
<td>LA</td>
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<tr>
<td>Electron Microscopy</td>
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<td>100131 - Airborne Asbestos</td>
<td>40 CFR Part 763, Subpart E, Appendix A (Mandatory TEM)</td>
<td>2062</td>
<td>NVLAP</td>
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<td>100172 - Asbestos by Polarized Light</td>
<td>EPA 600/R-93/116</td>
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<td>NVLAP</td>
<td>LA</td>
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<td>Microscopy</td>
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<td>100095 - Asbestos in Bulk Insulation</td>
<td>40 CFR 763, Subpart E, Appendix E (Section 1.PLM)</td>
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<td>NVLAP</td>
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<td>1075 - Lead</td>
<td>EPA 7000B</td>
<td>10157707</td>
<td>State</td>
<td>LA</td>
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<tr>
<td>100231 - Lead in Paint</td>
<td>EPA 7000B</td>
<td>10157707</td>
<td>State</td>
<td>LA</td>
</tr>
<tr>
<td>100233 - Lead in Soil</td>
<td>EPA 7000B</td>
<td>10157707</td>
<td>State</td>
<td>LA</td>
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<td>100232 - Lead in Wipes</td>
<td>EPA 7000B</td>
<td>10157707</td>
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<td>LA</td>
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<td>LA</td>
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<tr>
<td>Microscopy</td>
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## Biological Tissue

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Clients and Customers are urged to verify the laboratory's current certification status with the Louisiana Environmental Laboratory Accreditation Program.
Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200772-0

CA Labs L.L.C.
Baton Rouge, LA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).

2021-01-01 through 2021-12-31

Effective Dates

For the National Voluntary Laboratory Accreditation Program