

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

terracon.com

Terracon

Environmental



Facilities



Geotechnical



Materials

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



Terracon Consultants, Inc. 524 Elmwood Park Blvd. Suite 170 New Orleans, Louisiana 70123
P [504] 818 3638 F [504] 818 3890 terracon.com

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ASBESTOS SURVEY REPORT
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990 Myrtle Street
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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.

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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.

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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.

Asbestos Survey Report

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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%.

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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 1.0
ASBESTOS SURVEY SAMPLE SUMMARY
H 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

HA	Material Description	Material Location	Condition	Sample Number	Lab Results
01	Red 12"x12" Floor Tile with Yellow Adhesive	Rooms 1, 2, 3, 4, 5, Hall 1&2	Good	01-01	None Detected
				01-02	None Detected
				01-03	None Detected
02	White 12"x12" Floor Tile with Yellow Adhesive	Rooms 1, 2, 3, 4, 5, Hall 1&2	Good	02-04	None Detected
				02-05	None Detected
				02-06	None Detected
03	White Popcorn Ceiling Texture	Ceilings Throughout	Good	03-07	None Detected
				03-08	None Detected
				03-09	None Detected
04	White Wall Texture	Throughout except for Room 3, 6, and Bathroom 2 (Behind Wood Wall Paneling in Rooms 1, 4, 5 and Hall 2)	Good	04-10	None Detected
				04-11	None Detected
				04-12	None Detected
				04-13	None Detected
				04-14	None Detected
				04-15	None Detected
05	White Wallboard with Joint Compound	Throughout	Good	05-17	None Detected
				05-18	None Detected
				05-19	None Detected

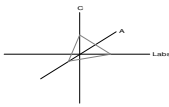
TABLE 1.0 (Continued)
ASBESTOS SURVEY SAMPLE SUMMARY
H H.004100 – I-10: LA 415 to Essen on I-10 & I-12
Parcel# ADV-9
990 Myrtle Street
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Terracon Project No. ET217377

HA	Material Description	Material Location	Condition	Sample Number	Lab Results
06	Gray/White Ceramic Floor Tile with Gray Grout, Gray Grout, White Thinset, White Vapor Barrier and Gray Grout Bed	Bathroom 1	Good	06-20	None Detected
				06-21	None Detected
				06-22	None Detected
07	Gray/Brown Floor Tile with Gray Grout, Gray Grout, White Thinset, White Vapor Barrier and Gray Grout Bed	Bathroom 2	Good	07-23	None Detected
				07-24	None Detected
				07-25	None Detected
08	Yellow Brown Wall Panel Adhesive	Behind Wood Wall Paneling in Rooms 1, 4, 5 and Hall 2	Good	08-26	None Detected
				08-27	None Detected
				08-28	None Detected
09	Black Roof Shingles with Black Tar Paper	Roof	Good	09-29	None Detected
				09-30	None Detected
				09-31	None Detected

APPENDIX B
LABORATORY ANALYTICAL REPORTS

CA Labs
Dedicated to
Quality

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

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Terracon Consultants

524 Elmwood Park Blvd #170
New Orleans, LA 70123

Attn: Steven Latiolais

Customer Project: H.004100 990 Myrtle St.

Reference #: CBR21128906Amend

Date: 12/24/2021

Analysis and Method

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

Discussion

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

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

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

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

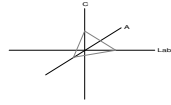
Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In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

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of 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.

CA Labs
Dedicated to
Quality

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

Overview of Project Sample Material Containing Asbestos

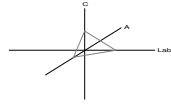
Customer Project: H.004100 990 Myrtle St.		CA Labs Project #: CBR21128906Amend	
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent
			List of Affected Building Material Types

No Asbestos Detected.

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

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

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Steven Latiolais
Terracon Consultants
 524 Elmwood Park Blvd #170
 New Orleans, LA 70123

Customer Project:
 H.004100
 990 Myrtle St.

CA Labs Project #:
 CBR21128906Amend

Phone # 318-787-3269
 Fax #

Turnaround Time: 24 hr

Date: 12/24/2021
Samples Received: 12/22/2021
Date Of Sampling: 12/22/2021
Purchase Order #: ET217377

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
01-01		01-1	Red Floor Tile	Y	None Detected		100% qu, ca
		01-2	Yellow Mastic	Y	None Detected		100% qu, bi
01-02		02-1	Red Floor Tile	Y	None Detected		100% qu, ca
		02-2	Yellow Mastic	Y	None Detected		100% qu, bi
01-03		03-1	Red Floor Tile	Y	None Detected		100% qu, ca
		03-2	Yellow Mastic	Y	None Detected		100% qu, bi
02-04		04-1	White Floor Tile	Y	None Detected		100% qu, ca

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

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

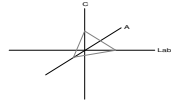
Approved Signatories:

Sidney Pinkerton
 Analyst

Senior Analyst
 Alicia Stretz
 Laboratory Director
 Chris Williams

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

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



Polarized Light Asbestiform Materials Characterization

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Phone # 318-787-3269
 Fax #

Turnaround Time: 24 hr

Date: 12/24/2021
Samples Received: 12/22/2021
Date Of Sampling: 12/22/2021
Purchase Order #: ET217377

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (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		05-1	White Floor Tile	Y	None Detected		100% qu, ca
		05-2	Yellow Mastic	Y	None Detected		100% qu, bi
02-06		06-1	White Floor Tile	Y	None Detected		100% qu, ca
		06-2	Yellow Mastic	Y	None Detected		100% qu, bi
03-07		07-1	White Textured Surfacing	N	None Detected		100% qu, mi, bi, ca, ot
03-08		08-1	White Textured Surfacing	N	None Detected		100% qu, mi, bi, ca, ot

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

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

Approved Signatories:

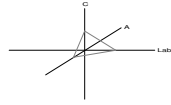
Sidney Pinkerton
 Analyst

Senior Analyst
 Alicia Stretz

Laboratory Director
 Chris Williams

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Polarized Light Asbestiform Materials Characterization

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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
03-09		09-1	White Textured Surfacing	N	None Detected		100% qu, mi, bi, ca, ot
04-10		10-1	White Paint White Compound	N	None Detected		100% qu, mi, bi, ca
		10-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
04-11		11-1	White Paint White Compound	N	None Detected		100% qu, mi, bi, ca
		11-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
04-12		12-1	White Paint White Compound	N	None Detected		100% qu, mi, bi, ca
		12-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy

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

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

Approved Signatories:

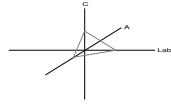
Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

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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



Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Steven Latiolais
Terracon Consultants
 524 Elmwood Park Blvd #170
 New Orleans, LA 70123

Customer Project:
 H.004100
 990 Myrtle St.

CA Labs Project #:
 CBR21128906Amend

Phone # 318-787-3269
 Fax #

Turnaround Time: 24 hr


Date: 12/24/2021
Samples Received: 12/22/2021
Date Of Sampling: 12/22/2021
Purchase Order #: ET217377


Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
04-13		13-1	White Paint White Compound	N	None Detected		100% qu, mi, bi, ca
		13-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
04-14		14-1	White Paint White Compound	N	None Detected		100% qu, mi, bi, ca
		14-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
04-15		15-1	White Paint White Compound	N	None Detected		100% qu, mi, bi, ca
		15-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
04-16		16-1	Gray Paint White Compound	N	None Detected		100% qu, mi, bi, ca


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

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

Approved Signatories:

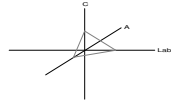

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05-17		17-1	White Paint White Compound	N	None Detected		100% qu, mi, bi, ca
		17-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
05-18		18-1	White Paint White Compound	N	None Detected		100% qu, mi, bi, ca
		18-2	White Drywall with Paper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

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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bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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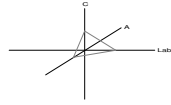
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Purchase Order #: ET217377

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
20-2				Tan Grout	N	None Detected		100% qu, ma, ca
20-3				Gray Leveling Plaster	Y	None Detected		100% qu, ma, ca
06-21				21-1 Tan Ceramic Tile	Y	None Detected		100% qu, ot
				21-2 Tan and White Grout	N	None Detected		100% qu, ma, ca
				21-3 Gray Leveling Plaster	Y	None Detected		100% qu, ma, ca
06-22				22-1 Tan Ceramic Tile	Y	None Detected		100% qu, ot
				22-2 Tan and White Grout	N	None Detected		100% qu, ma, ca

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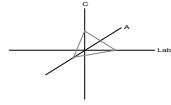
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		22-3	Gray Leveling Plaster	Y	None Detected		100% qu, ma, ca
07-23		23-1	Tan Ceramic Tile	Y	None Detected		100% qu, ot
		23-2	Tan and White Grout	N	None Detected		100% qu, ma, ca
		23-3	Gray Leveling Plaster	Y	None Detected		100% qu, ma, ca
07-24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

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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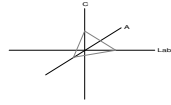
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07-25		25-1	Tan Ceramic Tile	Y	None Detected		100% qu, ot
		25-2	Tan and White Grout	N	None Detected		100% qu, ma, ca
		25-3	Gray Leveling Plaster	Y	None Detected		100% qu, ma, ca
08-26		26-1	Yellow Mastic	Y	None Detected		100% qu, bi
08-27		27-1	Yellow Mastic	Y	None Detected		100% qu, bi
08-28		28-1	Yellow Mastic	Y	None Detected		100% qu, bi
09-29		29-1	Black Shingle with Tan Gravel	Y	None Detected	15% fg	85% qu, bi

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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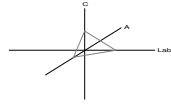
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Date: 12/24/2021
Samples Received: 12/22/2021
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Purchase Order #: ET217377

Sample #	Com ment	Layer #	Analysts Physical Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		29-2	Black Felt	Y	None Detected	40% ce	60% qu, bi
09-30		30-1	Black Shingle with Tan Gravel	Y	None Detected	15% fg	85% qu, bi
		30-2	Black Felt	Y	None Detected	40% ce	60% qu, bi
09-31		31-1	Black Shingle with Tan Gravel	Y	None Detected	15% fg	85% qu, bi
		31-2	Black Felt	Y	None Detected	40% ce	60% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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C.A. Labs, LLC.
 12232 Industripex
 Suite 32
 Baton Rouge, LA 70809

Phone: 225-751-5632
 Fax: 225-751-5634
 Mobile: 225-993-3471

Chain of Custody

Client Name:	Terracon New Orleans	CA Labs job #	CBR 21128906
Client Address:	524 Elmwood Park Blvd. Suite 170 New Orleans, LA 70123	Billing Address:	Same (if different)
phone number:	504.818.3638	adam.mcevoy@terracon.com	
fax number:	504.818.3890	Send Reports to:	jason.maloney@terracon.com
Project Number:	<u>ET217377</u>	Project Name:	<u>H. 004100 - 990 Myrtle St</u>
Contact:	Adam McEvoy	Reports Results	VIA: EMAIL <input checked="" type="checkbox"/> FAX <input type="checkbox"/> VERBAL <input type="checkbox"/>

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.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>	2 hour	Allergen Particle:	2 hour
AHERA	4 hour	Improved	4 hour	tape/bulk/swab	4 hour
EPA Level II	8 hour	Interim	8 hour	Cyclex-d cassettes	8 hour
Drinking Water	16 hour		16 hour	Air-o-cell cassettes	16 hour
Wipe	24 hour	<u>AHERA</u>	<u>24 hour</u>	Anderson cultures	24 hour
Micro-vac	2 days		2 days	Bulk/swab cultures	2 days
NIOSH 7402	3 days	Point Count -	3 days	Bacteria cultures	3 days
Chatfield Bulk	5 days	(NESHAPS)	5 days	PCM: NIOSH 7400	5-10 days

Lead: *Circle analysis and TA time*

Matrix:	Paint Chips	Soil	Air	Wipes	Wastewater	TCLP
TA Time:	8 hour	1 day	2 days	3 days	5 days	6-10 days

Sample Information:

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
	<u>Please See Attached</u>	<u>12-22-21</u>	

Custody Information:
 Samples relinquished:

AM 12-22-21/13:25
 Signature / Date / Time

Samples received:

JM 12/22/21 1:30pm
 Signature / Date / Time

Samples relinquished:

 Signature / Date / Time

Samples received:

 Signature / Date / Time

Sample Number	Sample Location	HA Description (Color, Dimensions, Descriptor, then Type)	HA General Location	Estimated Quantity	Condition ¹
01-01	1	Red 12"x12" Floor Tile w/ Yellow Adhesive	1,2,3,4,5, Hall 2 & 2	600SF	G D SD
01-02	3				
01-03	5				
02-04	1	White 12"x12" Floor Tile w/ Yellow Adhesive	↓	↓	G D SD
02-05	3				
02-06	5				
03-07	1	White Popcorn Ceiling Texture	Throughout	850SF	G D SD
03-08	2				
03-09	5				
04-10	2	White Wall Texture	Throughout except Bath 2, & Room 3 & 6 Behind Wood	6800SF	G D SD
04-11	Hall 1				
04-12	5				
04-13	1				
04-14	1				
04-15	4				
04-16	Bath 1	↓	↓		G D SD
05-17	2	White Wall board w/ Joint Compound	Throughout	6500SF	G D SD
05-18	3				
05-19	6				

JNO 12/22/21 1:30pm

Sample Number	Sample Location	HA Description (Color, Dimensions, Descriptor, then Type)	HA General Location	Estimated Quantity	Condition ¹
06-20	Bath 1	Gray/Brown	Bath 1	100 SF	
06-21	↓	Gray/White Ceramic Floor Tile			G D SD
06-22	↓	w/ Gray Grout, White Tileset, White Vapor Barrier and Gray Grout Bed			
07-23	Bath 2	Gray/Brown Ceramic Floor Tile	Bath 2	100 SF	
07-24	↓	w/ Gray Grout, White Tileset, White Vapor Barrier & Gray Grout Bed			G D SD
07-25	↓				
07-26					G D SD
08-26	5	Yellow Brown Wall Panel			
08-27	4	Adhesive			G D SD
08-28	1				
09-29	Roof	Black Roof Shingles w/ Black			
09-30	↓	Tar Paper			G D SD
09-31					
					G D SD
					G D SD
					G D SD

8/10 12/22/21 1:30pm

APPENDIX C
PHOTOGRAPH LOG



Photograph No. 1

HA-01: Red 12"x12" Floor Tile & HA-02: White 12"x12" Floor Tile



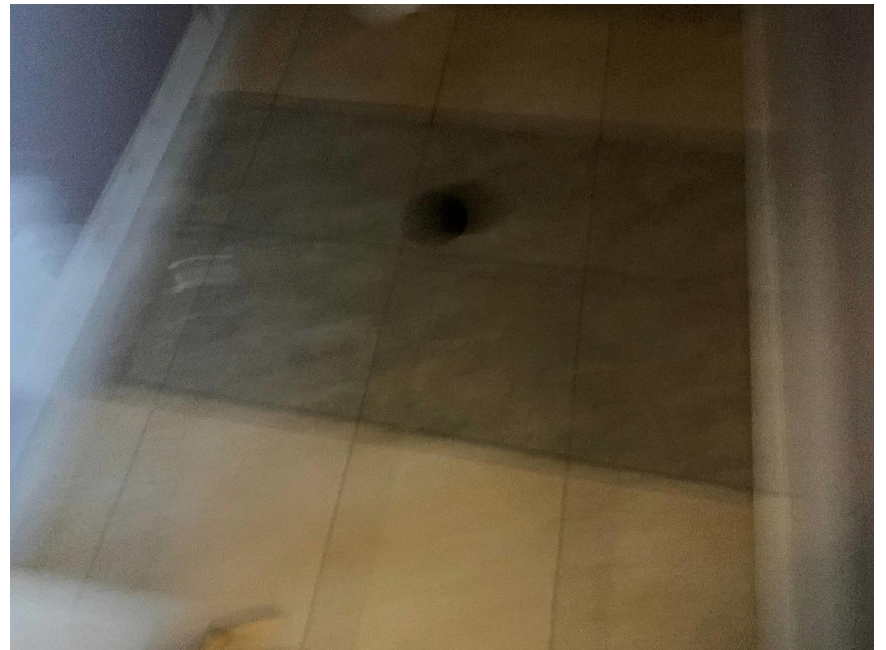
Photograph No. 2

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



Photograph No. 5

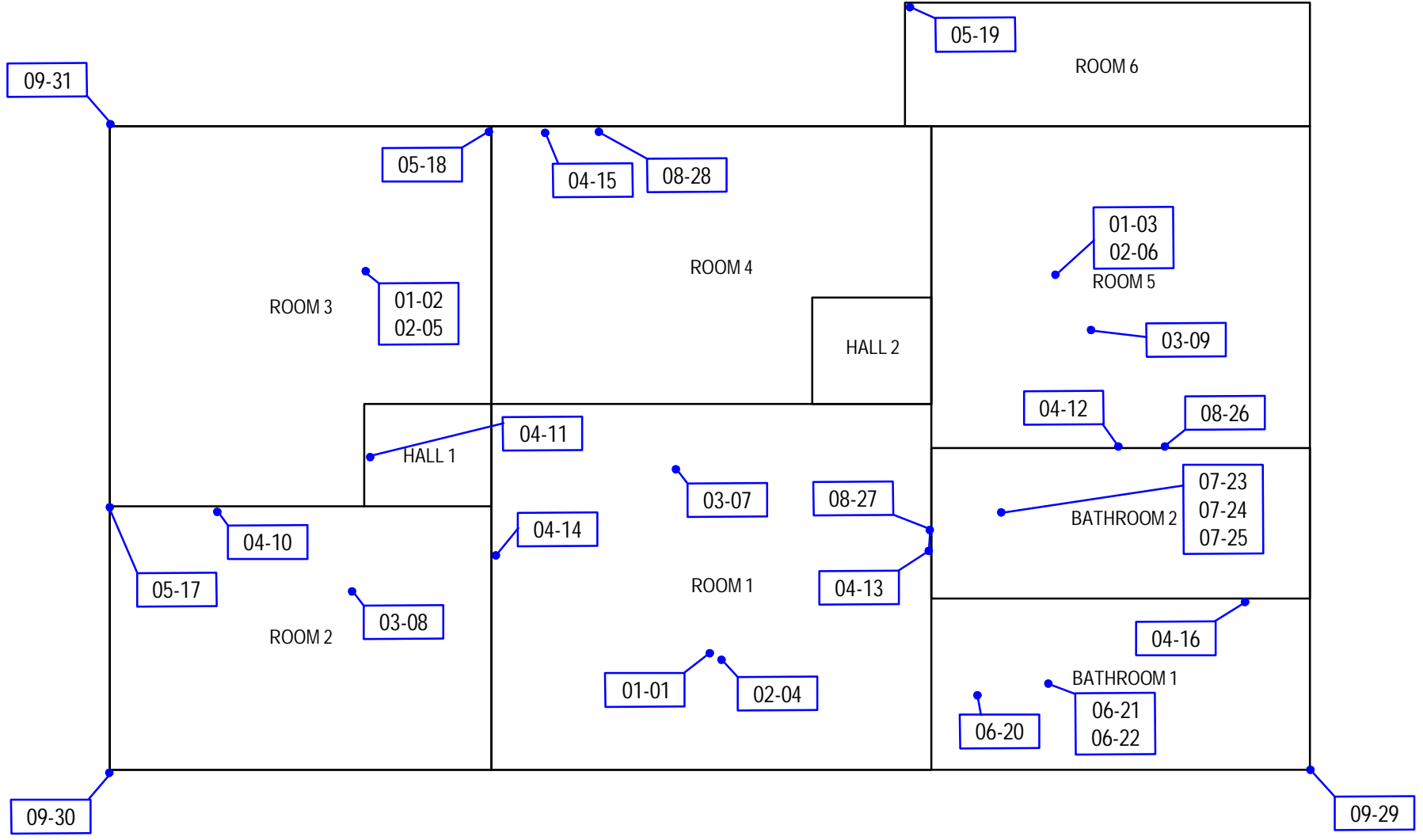
HA-07: Gray/Brown Ceramic Floor Tile with Gray Grout



Photograph No. 6

HA-09: Black Roof Shingles

APPENDIX D
EXHIBITS



LEGEND

● ASBESTOS BULK SAMPLE LOCATIONS

Project Mngr:	AMM	Project No.	ET217377
Drawn By:	AMM	Scale:	NOT TO SCALE
Checked By:	JMM	File No.	ET217377.dwg
Approved By:	JMM	Date:	DEC 2021

Terracon
 Consulting Engineers and Scientists
 524 ELMWOOD PARK BLVD NEW ORLEANS, LA 70123
 (504) 818-3638 (504) 818-3890

ASBESTOS BULK SAMPLE LOCATIONS
ASBESTOS SURVEY H.004100 - 1-10: LA 415 TO ESSEN ON I-10 & I-12 990 MYRTLE STREET BATON ROUGE, LOUISIANA

EXHIBIT
1

THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

APPENDIX E
CERTIFICATIONS

JOHN BEL EDWARDS
GOVERNOR



CHUCK CARR BROWN, Ph.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

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

Mr. Christopher Williams
CA Laboratories LLC
Page 2 of 2

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:I.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

14 May 2021

Date

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:I.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**



STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

CA Laboratories LLC
AI Number: 165918
Activity No. ACC20210001
Expiration Date: June 30, 2022

Effective Date: July 1, 2021

12232 Industriplex Blvd Ste 32, Baton Rouge, Louisiana 70809

Certificate Number: 03069

Air Emissions

Analyte	Method Name	Method Code	Type	AB
100173 - Asbestos by Phase Contrast Microscopy	NIOSH 7400 (A Rules)	899	State	LA
100171 - Asbestos by Transmission Electron Microscopy	EPA Level II Contract #68-02-3266	2020	NVLAP	LA
100131 - Airborne Asbestos	40 CFR Part 763, Subpart E, Appendix A (Mandatory TEM)	2062	NVLAP	LA
100172 - Asbestos by Polarized Light Microscopy	EPA 600/R-93/116	10294583	NVLAP	LA
100230 - Lead in Airborne Dust	NIOSH 7082, Rev.2	90012230	State	LA

Non Potable Water

Analyte	Method Name	Method Code	Type	AB
NONE	NONE	NONE	NONE	NONE

Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
100095 - Asbestos in Bulk Insulation	40 CFR 763, Subpart E, Appendix E (Section 1.PLM)	2004	NVLAP	LA
1075 - Lead	EPA 7000B	10157707	State	LA
100231 - Lead in Paint	EPA 7000B	10157707	State	LA
100233 - Lead in Soil	EPA 7000B	10157707	State	LA
100232 - Lead in Wipes	EPA 7000B	10157707	State	LA
100172 - Asbestos by Polarized Light Microscopy	EPA 600/R-93/116	10294583	NVLAP	LA
100171 - Asbestos by Transmission Electron Microscopy	EPA 600/R-93/116	10294583	NVLAP	LA

Biological Tissue

Analyte	Method Name	Method Code	Type	AB
NONE	NONE	NONE	NONE	NONE

United States Department of Commerce
National Institute of Standards and Technology



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 Communique dated January 2009).*

2021-01-01 through 2021-12-31

Effective Dates




For the National Voluntary Laboratory Accreditation Program