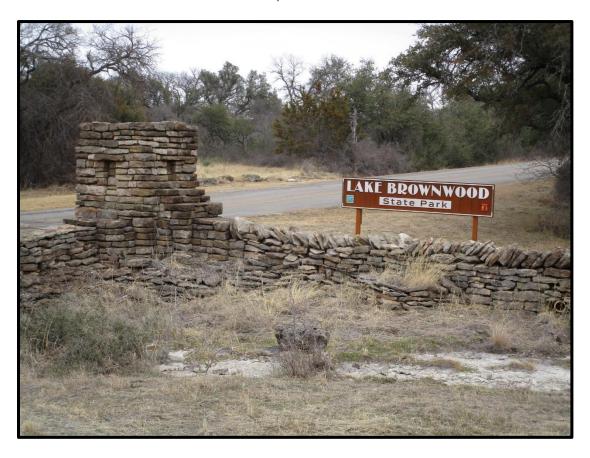
## **Limited Asbestos Investigation Report**

### Lake Brownwood State Park – Roof Replacements State Hwy Park Rd 15, Brownwood, TX 76801

Prepared for:

Hutson-Gallagher, Inc. 1206 Quail Park Drive Austin, TX 78758



Baer Engineering and Environmental Consulting, Inc.

7756 Northcross Drive, Suite 211 Austin, Texas 78757 512.453.3733

Baer Engineering Project No. 201030.02 & Document No. 201030-8i.020

January 29, 2021



January 29, 2021

Hutson-Gallagher, Inc. 1206 Quail Park Drive Austin, TX 78758

Sent via e-mail to: tracy@hutsongallagher.com

**Attention:** Ms. Tracy Hirschman Hutson

Reference: LIMITED ASBESTOS INVESTIGATION REPORT

Lake Brownwood State Park –Roof Replacements State Hwy Park Rd 15, Brownwood, TX 76801 Baer Engineering Document No. 201030-8i.020

Dear Ms. Hutson:

Baer Engineering and Environmental Consulting, Inc. (Baer Engineering) completed the proposed services at the Lake Brownwood State Park located at State Hwy Rd 15, Brownwood, TX 76801(Site). Our scope of work involved an asbestos investigation limited to accessible roofing materials of Cabins 5, 6, 7, 9 through 17, the Loma Vista Lodge, Oak Lodge, Beach Lodge, Group Recreation Hall, and Stair Case Pavilion. The proposed services were performed in accordance with our proposal, dated November 17, 2020.

The Site observations and sampling for suspect asbestos-containing materials (ACM) were performed on January 19 & 20, 2021, by Mr. Brad Massey, a Texas Department of State Health Services (DSHS)-licensed Asbestos Consultant.

The asbestos investigation identified thirty-nine homogeneous materials suspected to contain asbestos. A total of thirty-nine bulk samples were collected of suspect ACM.

Suspect ACM samples were collected in general accordance with the sampling protocol, outlined in EPA regulation 40 CFR Part 61, Subpart M (National Emission Standards for Hazardous Air Pollutants (NESHAP) and the DSHS' Texas Asbestos Health Protection Rules (TAHPR) which require materials that are suspected of containing asbestos be sampled prior to any activity that could potentially disturb them. Samples were analyzed for asbestos by Polarized Light Microscopy (PLM) by Omni Environmental, Inc. (Omni), Round Rock, TX. Omni is licensed by the DSHS to perform laboratory analysis for material samples obtained from public buildings in Texas and is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). The individual laboratory analysis reports issued by Omni are attached.

## According to the analytical results, none of the identified and sampled materials contained asbestos.

Information regarding suspect ACM identified and sampled is included in Table 1, and photos of those materials are included in Table 2.

Table 1. Asbestos - Bulk Sample Log

SAMPLE ID	DESCRIPTION OF HOMOGENEOUS MATERIAL	SAMPLE LOCATION	Asbestos Content	ACM QUANTITY
		Cabin #6		
01A	Roof Shingle & Black Felt paper	Roof	NAD	N/A
02A	White Caulk	Chimney	NAD	N/A
		Cabin #5		
03A	Roof Shingle & Black Felt paper	Roof	NAD	N/A
04A	Brown Caulk	Chimney	NAD	N/A
		Cabin #7		
05A	Roof Shingle & Black Felt paper	Roof	NAD	N/A
06A	White Caulk	Chimney	NAD	N/A
		Cabin #9		
07A	Roof Shingle & Black Felt paper	Roof	NAD	N/A
08A	Brown Caulk	Chimney	NAD	N/A
Cabin #10				
09A	Roof Shingle & Black Felt paper	Roof	NAD	N/A
10A	Gray Caulk	Chimney	NAD	N/A
Cabin #11				
11A	Roof Shingle & Black Felt paper	Roof	NAD	N/A
12A	Gray Caulk	Chimney	NAD	N/A
Cabin#12				
13A	Roof Shingle & Black Felt paper	Roof	NAD	N/A
14A	Gray Caulk	Chimney	NAD	N/A

Table 1. Asbestos - Bulk Sample Log - Continued

SAMPLE ID	DESCRIPTION OF HOMOGENEOUS MATERIAL	Sample Location	Asbestos Content	ACM QUANTITY
		Cabin #13		
15A	Roof Shingle & Black Felt paper	Roof	NAD	N/A
16A	Gray Caulk	Chimney	NAD	N/A
		Cabin #14		
17A	Roof Shingle & Black Felt paper	Roof	NAD	N/A
18A	Black Roof Tar	Chimney	NAD	N/A
19A	Brown Caulk	Chimney	NAD	N/A
		Cabin #15		
20A	Roof Shingles & Black Felt paper	Roof	NAD	N/A
21A	Black Roof Tar	Chimney	NAD	N/A
	Cabin #16			
22A	Roof Shingles & Black Felt paper	Roof	NAD	N/A
23A	Brown Caulk	Chimney	NAD	N/A
	Cabin #17			
24A	Roof Shingles & Black Felt paper	Roof	NAD	N/A
25A	Black Roof Tar	Chimney	NAD	N/A
	Loma Vista Lodge			
26A	Roof Shingles & Black Felt paper	Roof	NAD	N/A
27A	Gray Caulk	Chimney	NAD	N/A

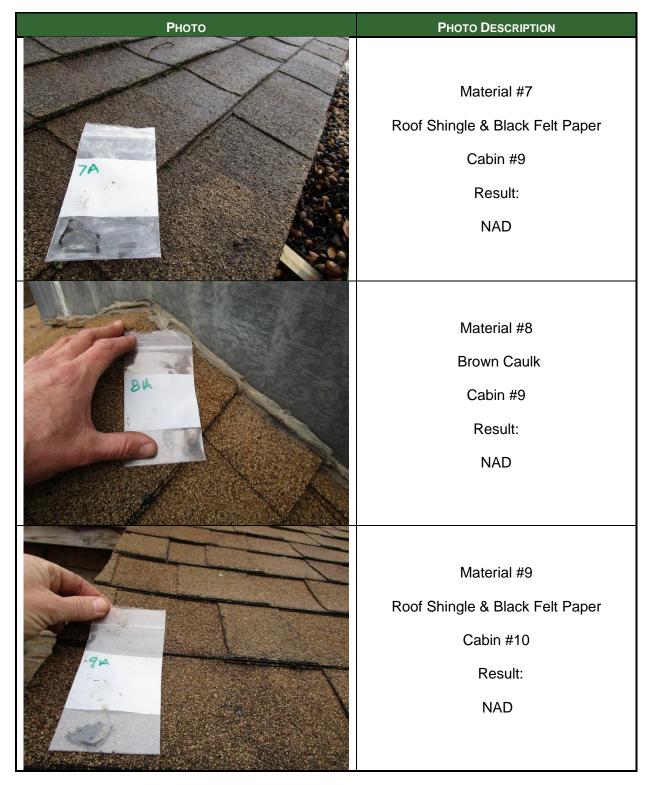
Table 1. Asbestos - Bulk Sample Log - Continued

SAMPLE ID	DESCRIPTION OF HOMOGENEOUS MATERIAL	SAMPLE LOCATION	ASBESTOS CONTENT	ACM QUANTITY
		Staircase Pavilion		
28A	Roof Shingle & Black Felt paper	Roof	NAD	N/A
	Group Recreation Hall			
29A	Roof Shingle & Black Felt paper	Roof	NAD	N/A
30A	Gray Caulk	Chimney	NAD	N/A
31A	Black Roof Tar	Chimney	NAD	N/A
32A	Tan Caulk	Kitchen Exhaust Fan Unit	NAD	N/A
Oak Lodge				
33A	Roof Shingle & Black Felt paper	Roof	NAD	N/A
34A	Tan/Orange Cement	Chimney	NAD	N/A
35A	Gray Mastic	Chimney	NAD	N/A
Beach Lodge				
36A	Roof Shingles + Black Felt paper	Roof	NAD	N/A
37A	Black Roof Tar	Kitchen Exhaust Fan Unit	NAD	N/A
38A	White Caulk	Kitchen Exhaust Fan Unit	NAD	N/A
39A	Gray Roof Tar	Chimney	NAD	N/A

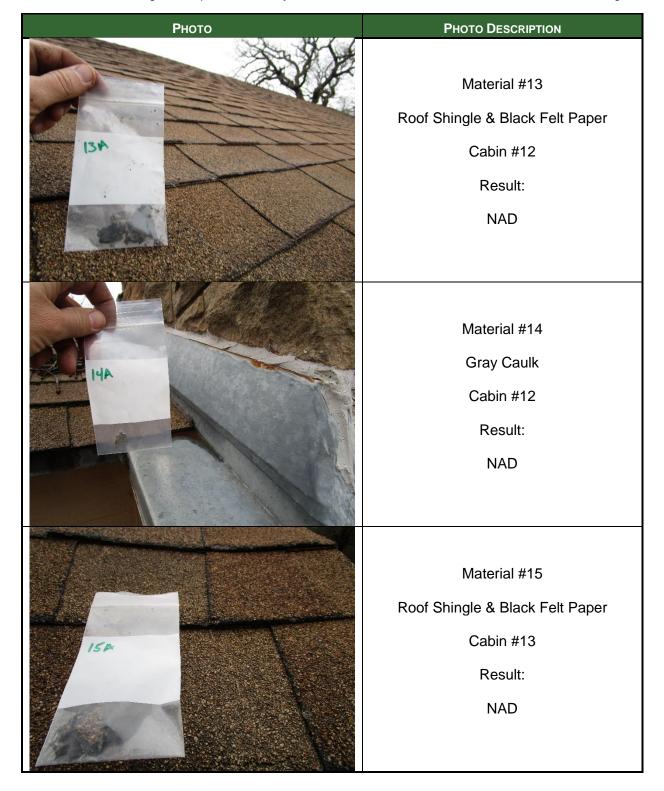
Table 2. Asbestos - Photo Log

PHOTO	PHOTO DESCRIPTION
	Material #1  Roof Shingle & Black Felt Paper  Cabin #6  Result:  No Asbestos Detected (NAD)
ZA	Material #2 White Caulk Cabin #6 Result: NAD
3A	Material #3 Roof Shingle & Black Felt Paper Cabin #5 Result: NAD

Рното	PHOTO DESCRIPTION
	Material #4
40	Brown Caulk
	Cabin #5
	Result:
	NAD
	Material #5
	Roof Shingle & Black Felt Paper
	Cabin #7
. 5h	Result:
	NAD
	Material #6
614	Gray Caulk
	Cabin #7
	Result:
	NAD

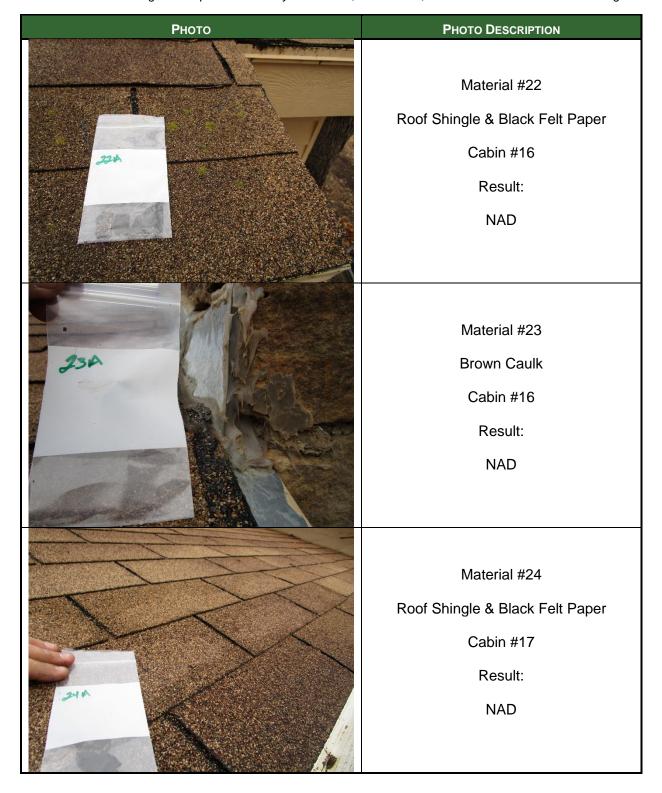


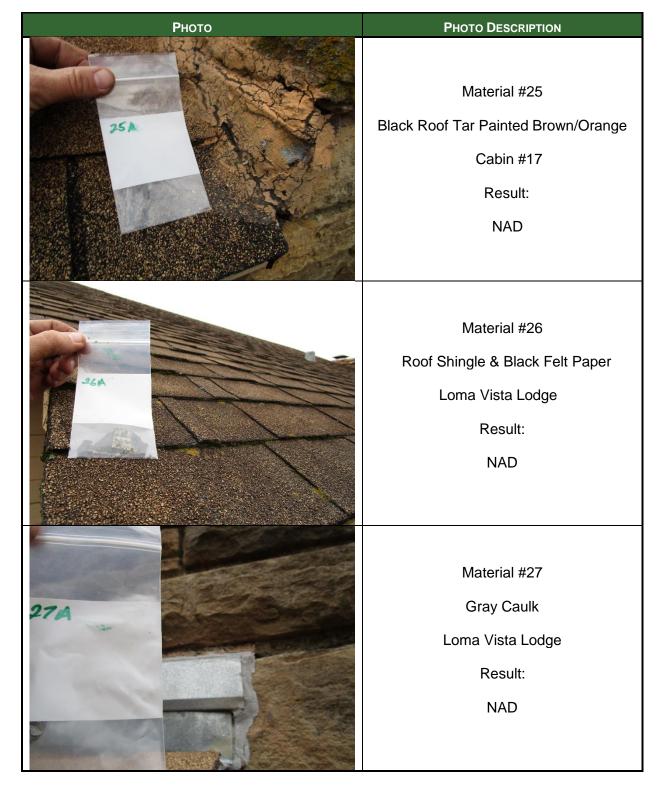
Рното	PHOTO DESCRIPTION
	Material #10
10A	Gray Caulk
	Cabin #10
	Result:
	NAD
	Material #11
	Roof Shingle & Black Felt Paper
IIA STATE	Cabin #11
	Result:
	NAD
	Material #12
124	White Caulk
	Cabin #11
	Result:
	NAD



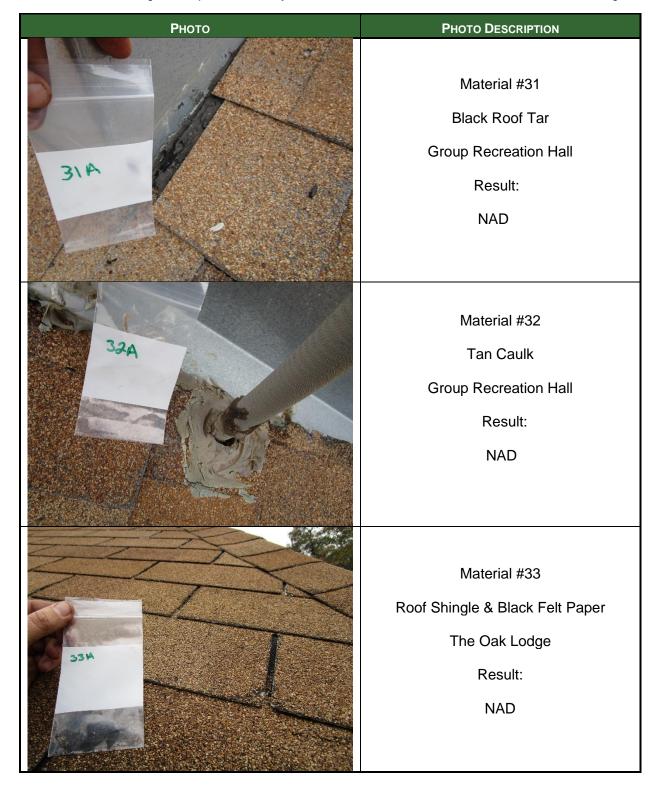
Рното	PHOTO DESCRIPTION
PHOTO  16 A  17/A	Material #16 Gray Caulk Cabin #13 Result: NAD  Material #17 Roof Shingle & Black Felt Paper Cabin #14 Result: NAD
D3A	Material #18 Black Roof Tar Cabin #14 Result: NAD

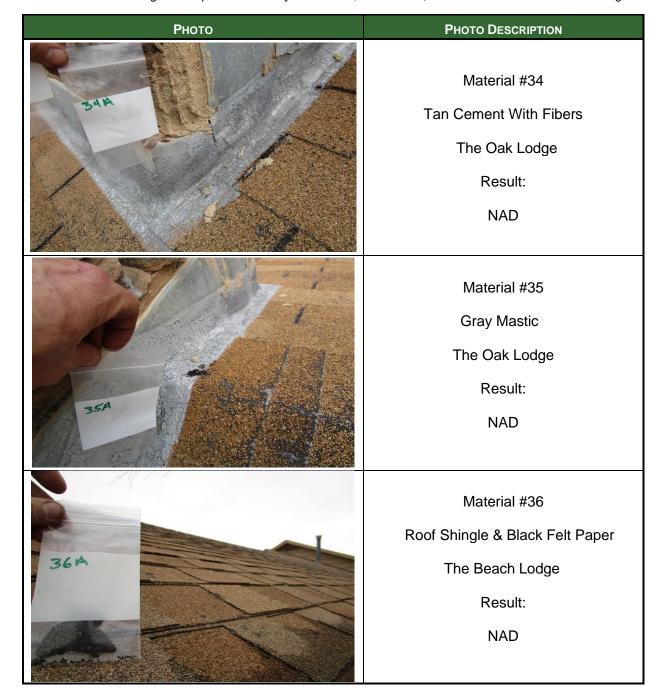
Рното	PHOTO DESCRIPTION
	Material #19
	Tan Caulk
	Cabin #14
INA	Result:
	NAD
	Material #20
	Roof Shingle & Black Felt Paper
204	Cabin #15
	Result:
	NAD
	Material #21
	Black Roof Tar Painted Brown
214	Cabin #15
	Result:
	NAD











Рното	PHOTO DESCRIPTION
37A	Material #37  Black Roof Tar  The Beach Lodge  Result:  NAD
384	Material #38  Tan Caulk  The Beach Lodge  Result:  NAD
39A	Material #39 Gray Roof Tar The Beach Lodge Result: NAD

#### **QUALIFICATIONS**

The analysis of the samples collected with respect to the presence and amount of asbestos is limited to that for the discrete area and quantity of material sampled at those particular locations. Different analytical results may be achieved at adjacent areas due to variations in the material type and consistency.

Baer Engineering observed existing conditions using generally accepted procedures. Concealed materials existing inside walls and other building cavities as well as behind exterior finishes, wall coverings, or the like, may not be detected if there are no visible indications that such materials are present. Baer Engineering attempted locating hidden materials based upon the inspector's professional judgment of where such materials may likely existed; however, it is possible that not all concealed materials were identified. Additional sampling may be necessary if renovations or demolition uncover concealed suspect materials.

This report was prepared for use by Hutson-Gallagher, Inc. as a basis for compliance with regulatory requirements and permitting. Any reuse of the findings contained herein for other purposes shall be at the user's sole and exclusive risk and without liability to Baer Engineering.

We appreciate the opportunity to be of service. Please contact us if you have questions regarding this report.

Sincerely,

BAER ENGINEERING AND ENVIRONMENTAL CONSULTING, INC.

Victor Steeghs

**DSHS Individual Asbestos Consultant** 

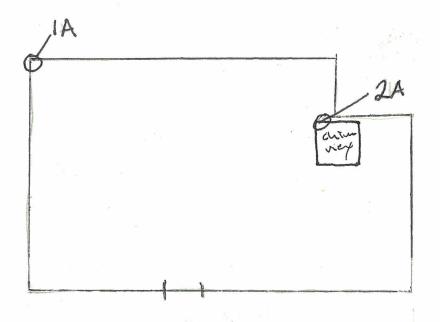
Brad Massey

**DSHS Individual Asbestos Consultant** 

#### **Attachments:**

- Attachment A: Asbestos Sample and Locations
- Attachment B: Licenses and Accreditations
- Attachment C: Laboratory Reports and Chain-of-Custody Documentation

# ATTACHMENT A ASBESTOS SAMPLE LOCATIONS

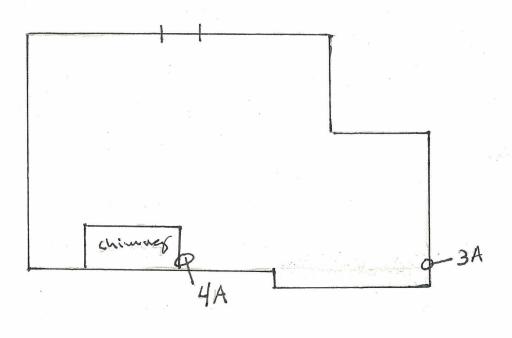


Cabin #6

Project #201030.02

Legend





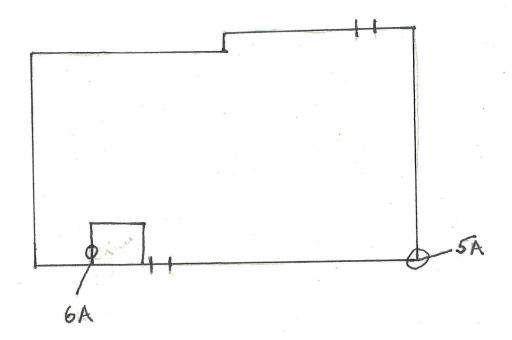


Cabin #5

Project #201030.02

## Legend





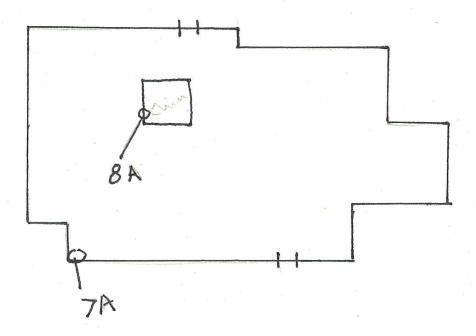


Cabin #7

Project #201030.02

Legend



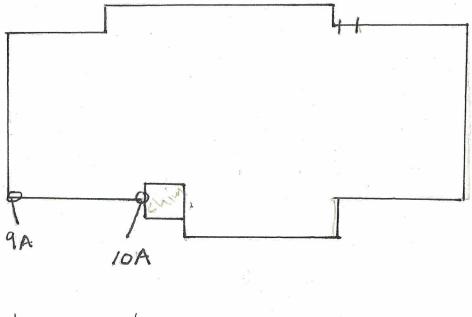


Cabin #9

Project #201030.02

Legend



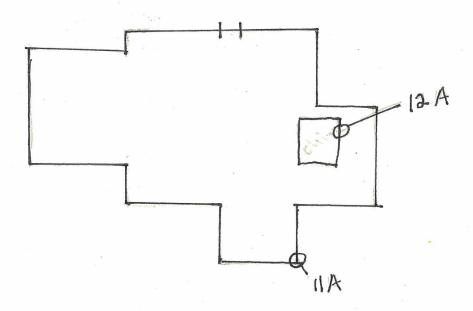


Cabin #10

Project #201030.02

Legend





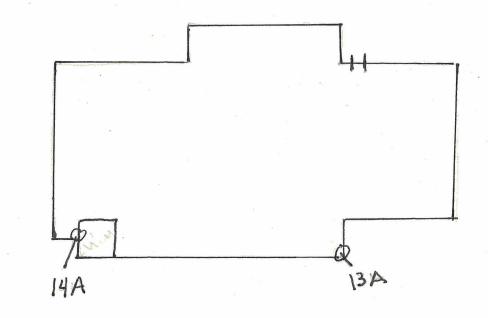


Cabin #11

Project #201030.02

## Legend

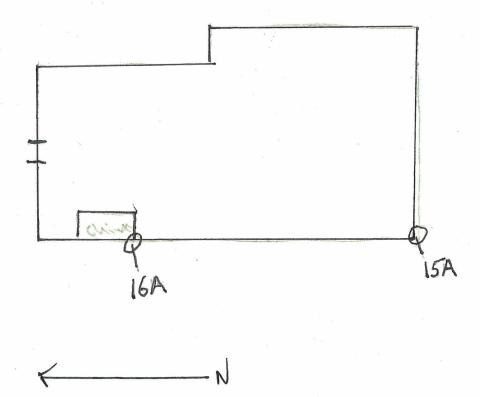




Cabin #12

Project #201030.02

Legend

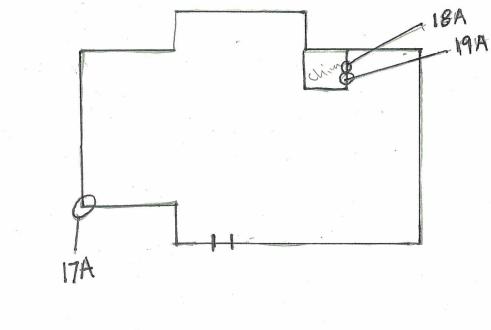


Cabin #13

Project #201030.02

## Legend



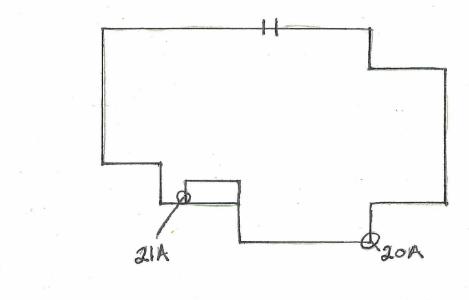


Cabin #14

Project #201030.02

Legend



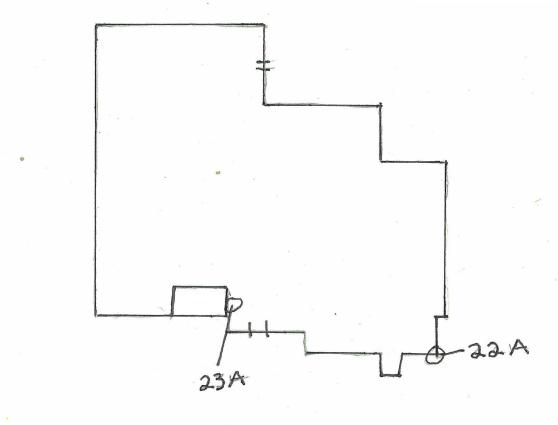


Cabin #15

Project #201030.02

Legend



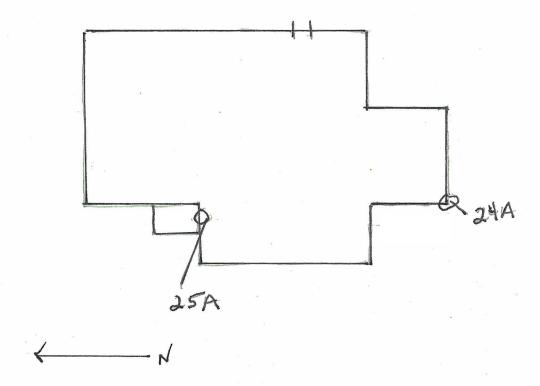




Cabin #16

Project #201030.02

Legend

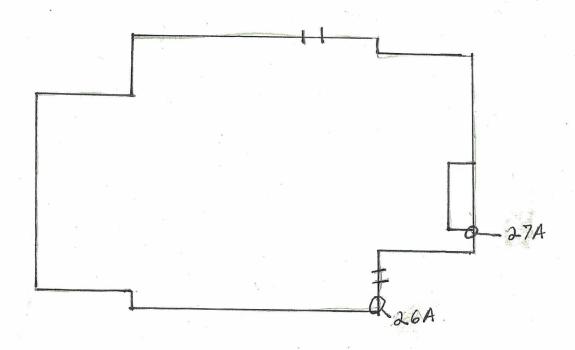


Cabin #17

Project #201030.02

Legend





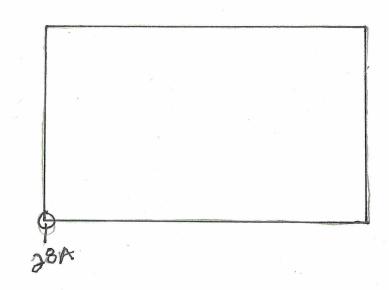


Loma Vista Lodge

Project #201030.02

Legend



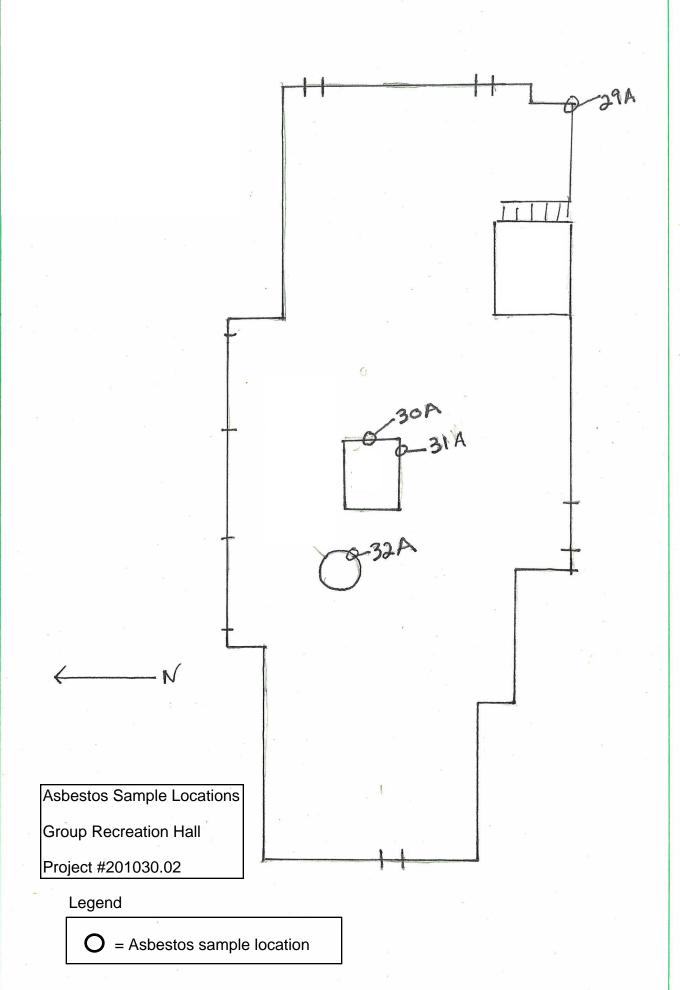


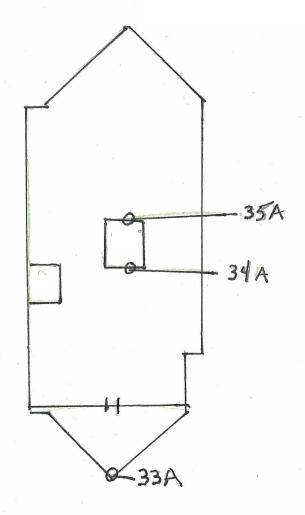
Staircase Pavilion

Project #201030.02

Legend



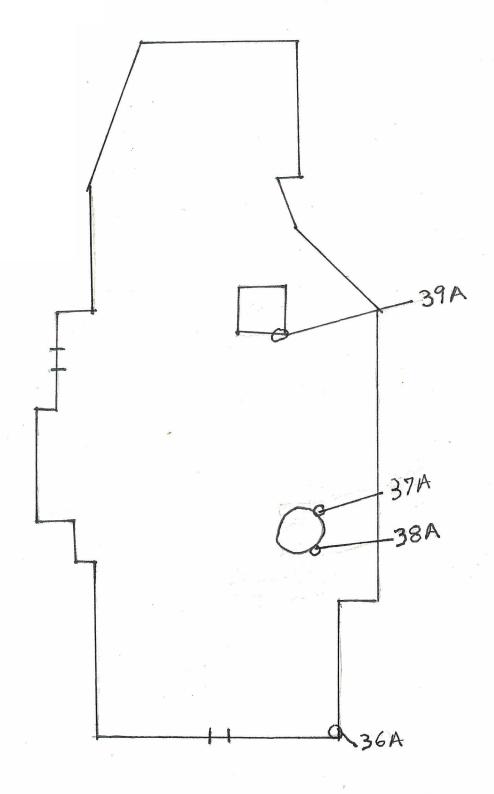




Oak Lodge

Project #201030.02

Legend



Asbestos Sample Locations

Beach Lodge

Project #201030.02

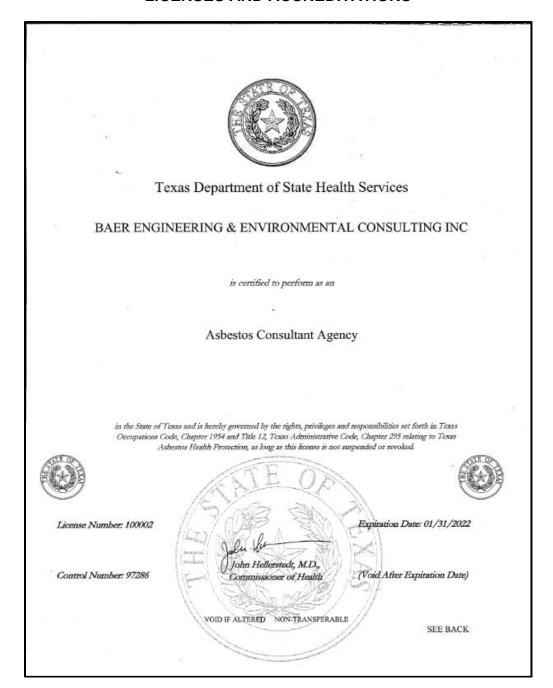
Legend



= Asbestos sample location

# **ATTACHMENT B**

# **LICENSES AND ACCREDITATIONS**





# Texas Department of State Health Services

# **Asbestos Individual Consultant**

#### VICTOR J STEEGHS

License No. 105867 Control No. 97713

Expiration Date: 30-Mar-2022





# **Texas Department of State Health Services**

#### **Asbestos Individual Consultant**

# JOHN BRAD MASSEY

License No. 105840

**Control No. 97738** 

Expiration Date: 7-May-2022

#### United States Department of Commerce National Institute of Standards and Technology



# Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 102061-0

#### Omni Environmental, Inc.

Round Rock, TX

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).

2020-07-01 through 2021-06-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program



# Texas Department of State Health Services

# OMNI ENVIRONMENTAL INC

is certified to perform as an

Asbestos Laboratory
PLM

in the State of Texas and is hereby governed by the rights, privileges and responsibilities set forth in Texas Occupations Code, Chapter 1954 and Title 12, Texas Administrative Code, Chapter 295 relating to Texas Asbestos Health Protection, as long as this license is not suspended or revoked.

License Number: 300087

Expiration Date: 06/15/2021

Control Number: 96377

John Hellerstedt, M.D., Commissioner of Health

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE

SEE BACK

# **ATTACHMENT C**

# LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

# SAMPLE SUMMARY REPORT

# Omni Environmental, Inc.

2851 Joe DiMaggio Blvd Suite 10 Round Rock, TX 78665 (512) 258-9114 NVLAP LABCODE 102061-1 TDSHS Lab License 30-0087

Client Name: Baer Engineering, Inc.

Contact Name: Brad Massey

Client Project Number: 201030.02

Lab Project #: 231792

Client Sample Number	Lab Sample Number	Asbestos Type and %	Asbestos Content by Layer
1A	803538	NAD	
2A	803539	NAD	
3A	803540	NAD	
4A	803541	NAD	
5A	803542	NAD	
6A	803543	NAD	
7A	803544	NAD	
8A	803545	NAD	
9A	803546	NAD	
10A	803547	NAD	
11A	803548	NAD	
12A	803549	NAD	
13A	803550	NAD	
14A	803551	NAD	
15A	803552	NAD	
16A	803553	NAD	
17A	803554	NAD	
18A	803555	NAD	
19A	803556	NAD	
20A	803557	NAD	
21A	803558	NAD	
22A	803559	NAD	
23A	803560	NAD	
24A	803561	NAD	
25A	803562	NAD	
26A	803563	NAD	
27A	803564	NAD	
28A	803565	NAD	
29A	803566	NAD	
30A	803567	NAD	
31A	803568	NAD	
32A	803569	NAD	
33A	803570	NAD	

This report is only a summary. For complete information on each sample see the Bulk Sample Analysis Report.

Note that NAD means that No Asbestos was Detected in the sample or layer.

# SAMPLE SUMMARY REPORT

# Omni Environmental, Inc.

2851 Joe DiMaggio Blvd Suite 10 Round Rock, TX 78665 (512) 258-9114 NVLAP LABCODE 102061-1 TDSHS Lab License 30-0087

Client Name: Baer Engineering, Inc.

Contact Name: Brad Massey

Client Project Number: 201030.02 Lab Project #: 231792

Client Sample Number	Lab Sample Number	Asbestos Type and %	Asbestos Content by Layer
34A	803571	NAD	
35A	803572	NAD	
36A	803573	NAD	
37A	803574	NAD	
38A	803575	NAD	
39A	803576	NAD	

# Omni Environmental, Inc.

2851 Joe DiMaggio Blvd Suite 10 Round Rock, TX 78665 (512) 258-9114 NVLAP LABCODE 102061-1 TDSHS Lab License 30-0087

January 22, 2021

**Brad Massey** 

Baer Engineering, Inc.

7756 Northcross Drive Ste. 211

Austin, TX 78757-1725

Dear Mr Massey:

Please find enclosed the bulk sample analytical results for the following project:

**Client Project #: 201030.02** Lab Project #: 231792

Date Received: 1/20/2021 Received By: Steve Griffin
Delivery Agency: Hand Delivered Name/Tracking #: Brad Massey
Date Logged: 1/22/2021 Logged in by: Steve Griffin

Analysis Completed: 1/22/2021 Samples in Project: 39

The following procedures were used in sample analysis unless otherwise noted.

ANALYTICAL METHOD: EPA Method for the Determination of Asbestos in Bulk Building Materials (EPA 600/R-93/116) or EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples (EPA 600/M4-82-020), as applicable.

Percentages are visual estimates based on sample volume. Limit of Detection: <1%. Limit of Quantification: 1%.

Negative results of resinously bound materials such as roofing material or floor tile may be inconclusive. NAD means No Asbestos was Detected in the sample or layer. The term texturizer (where applicable) may include wall texturizing, tape and bed, and/or joint compound. This report relates only to the item tested. It may not be used to claim product endorsement by NVLAP or any agency of the federal government. This report may not be reproduced, except in full, without the expressed written consent of laboratory management. Subsamples of layers or other inhomogeneities were analyzed separately and their results combined in proportion to the quantity of each layer to obtain quantitative results for the sample as a whole. All samples are stored for 1 month from the original analysis date before being disposed of.

Please call us if you have any questions regarding this report

Stave Griffin

Thank you for your business.

Sincerely,

Steve Griffin, Lab Manager

Date Analyzed:

Homogeneous, Fibrous

1/22/2021

Lab Project #: 231792

Color: Black Lab Sample #: 803538 201030.02 Client Project #: Characterization:

Client Sample #: 1A

Analyst: Steve Griffin

Comments:

**ASBESTOS COMPONENTS** FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile 40 % Filler/Binder Fibrous Glass

Amosite 50 % Tar Crocidolite 10 % Aggregate

Tremolite Actinolite Anthophyllite

Fibrous Total: Non-Fibrous Total: **Asbestos Total:** NAD 40 % 60 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803539 Color: Gray

Client Project #: 201030.02 Characterization: Homogeneous, Non-Fibrous

Client Sample #: 2A Date Analyzed: 1/22/2021 Steve Griffin QC'd By: Steve Griffin Analyst:

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS **NON-FIBROUS COMPONENTS** 

Chrysotile Cellulose <1 % Filler/Binder 100 % Amosite

Crocidolite Tremolite Actinolite Anthophyllite

Fibrous Total: Non-Fibrous Total: NAD <1 % 100 % **Asbestos Total:** 

SAMPLE LAYER DETAILS

Lab Project #: 231792 Color: Black Lab Sample #: 803540

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 3A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

**ASBESTOS COMPONENTS** FIBROUS COMPONENTS **NON-FIBROUS COMPONENTS** 

Chrysotile Cellulose 20 % Filler/Binder

Amosite Fibrous Glass 25 % Tar 50 % Aggregate 5 %

Crocidolite Tremolite Actinolite Anthophyllite

**Asbestos Total:** NAD Fibrous Total: 45 % Non-Fibrous Total: 55 %

Lab Project #: 231792 Lab Sample #: 803541 Color: Gray

Client Project #: 201030.02 Characterization: Homogeneous, Non-Fibrous

Client Sample #: 4A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Filler/Binder 100 % Amosite Tar <1 %

Crocidolite
Tremolite
Actinolite
Anthophyllite

Asbestos Total: NAD Fibrous Total: Non-Fibrous Total: 100 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803542 Color: Black

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 5A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose 25 % Filler/Binder

Amosite Fibrous Glass 20 % Tar 50 % Crocidolite Aggregate 5 %

Crocidolite Tremolite Actinolite Anthophyllite

**Asbestos Total:** NAD Fibrous Total: 45 % Non-Fibrous Total: 55 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803543 Color: Gray

Client Project #: 201030.02 Characterization: Homogeneous, Non-Fibrous

Client Sample #: 6A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose <1 % Filler/Binder 100 %

Amosite Crocidolite Tremolite Actinolite Anthophyllite

Asbestos Total: NAD Fibrous Total: <1 % Non-Fibrous Total: 100 %

Color: Black

Date Analyzed:

1/22/2021

Aggregate

5 %

Lab Project #: 231792 Lab Sample #: 803544

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 7A

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose 5 % Filler/Binder

Amosite Fibrous Glass 35 % Tar 50 % Crocidolite Aggregate 10 %

Crocidolite
Tremolite
Actinolite
Anthophyllite

Asbestos Total: NAD Fibrous Total: 40 % Non-Fibrous Total: 60 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803545 Color: Tan

Client Project #: 201030.02 Characterization: Homogeneous, Non-Fibrous

Client Sample #: 8A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Filler/Binder 95 %
Amosite Aggregate 5 %

Crocidolite Tremolite Actinolite Anthophyllite

Asbestos Total: NAD Fibrous Total: Non-Fibrous Total: 100 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803546 Color: Black

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 9A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose 20 % Filler/Binder

Amosite Fibrous Glass 25 % Tar 50 %

Crocidolite Tremolite Actinolite

Anthophyllite

Asbestos Total: NAD Fibrous Total: 45 % Non-Fibrous Total: 55 %

Lab Project #: 231792 Lab Sample #: 803547 Color: Gray

Client Project #: 201030.02 Characterization: Homogeneous, Non-Fibrous

Client Sample #: 10A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose <1 % Filler/Binder 100 %

Amosite Crocidolite Tremolite Actinolite Anthophyllite

Asbestos Total: NAD Fibrous Total: <1 % Non-Fibrous Total: 100 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803548 Color: Black

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 11A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose 20 % Filler/Binder

Amosite Fibrous Glass 25 % Tar 50 % Crocidolite Aggregate 5 %

Crocidolite
Tremolite
Actinolite
Anthophyllite

Asbestos Total: NAD Fibrous Total: 45 % Non-Fibrous Total: 55 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803549 Color: Gray

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 12A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose 5 % Filler/Binder 95 %

Amosite Crocidolite Tremolite Actinolite Anthophyllite

Asbestos Total: NAD Fibrous Total: 5 % Non-Fibrous Total: 95 %

Color: Black

Date Analyzed:

Lab Project #: 231792 Lab Sample #: 803550

201030.02 Client Project #: Characterization: Homogeneous, Fibrous 1/22/2021

Client Sample #: 13A

Analyst: Steve Griffin

Comments:

**ASBESTOS COMPONENTS** FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose 25 % Filler/Binder

Amosite Fibrous Glass 20 % Tar 50 % Crocidolite 5 % Aggregate

Tremolite Actinolite Anthophyllite

Fibrous Total: Non-Fibrous Total: **Asbestos Total:** NAD 45 % 55 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803551 Color: Gray

Client Project #: 201030.02 Characterization: Homogeneous, Non-Fibrous

Client Sample #: 14A Date Analyzed: 1/22/2021

Steve Griffin Analyst:

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS **NON-FIBROUS COMPONENTS** 

Chrysotile Cellulose <1 % Filler/Binder 100 % Amosite

Crocidolite Tremolite Actinolite Anthophyllite

Fibrous Total: Non-Fibrous Total: NAD <1 % 100 % **Asbestos Total:** 

SAMPLE LAYER DETAILS

Lab Project #: 231792 Color: Black Lab Sample #: 803552

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 15A Date Analyzed: 1/22/2021

Steve Griffin Analyst:

Comments:

**ASBESTOS COMPONENTS** FIBROUS COMPONENTS **NON-FIBROUS COMPONENTS** 

Chrysotile Cellulose 10 % Filler/Binder

Amosite Fibrous Glass 30 % Tar 50 %

Aggregate

10 %

Crocidolite Tremolite Actinolite Anthophyllite

**Asbestos Total:** NAD Fibrous Total: 40 % Non-Fibrous Total: 60 %

Lab Project #: 231792 Lab Sample #: 803553 Color: Gray

201030.02 Client Project #: Characterization: Homogeneous, Non-Fibrous

Client Sample #: 16A 1/22/2021 Date Analyzed: Steve Griffin Analyst: Steve Griffin QC'd By:

Comments:

**ASBESTOS COMPONENTS** FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose <1 % Filler/Binder 100 %

Amosite Crocidolite Tremolite Actinolite Anthophyllite <1 \( \bar{\pi} Fibrous Total: Non-Fibrous Total: **Asbestos Total:** NAD 100 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803554 Color: Black

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 17A Date Analyzed: 1/22/2021

Steve Griffin Analyst:

Comments:

ASBESTOS COMPONENTS **FIBROUS COMPONENTS NON-FIBROUS COMPONENTS** 

35 % Filler/Binder Chrysotile Cellulose

Amosite Fibrous Glass 10 % Tar 50 % Crocidolite 5 % Aggregate

Tremolite Actinolite Anthophyllite

Fibrous Total: 45 % Non-Fibrous Total: NAD 55 % **Asbestos Total:** 

SAMPLE LAYER DETAILS

Lab Project #: 231792 Color: Black Lab Sample #: 803555

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 18A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

**ASBESTOS COMPONENTS** FIBROUS COMPONENTS **NON-FIBROUS COMPONENTS** 

10 % Chrysotile Cellulose Filler/Binder

Amosite 90 % Tar

Aggregate

<1 %

Crocidolite Tremolite Actinolite Anthophyllite

**Asbestos Total:** NAD Fibrous Total: 10 % Non-Fibrous Total: 90 %

Lab Project #: 231792 Lab Sample #: 803556 Color: Tan

Client Project #: 201030.02 Characterization: Homogeneous, Non-Fibrous

Client Sample #: 19A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose <1 % Filler/Binder 100 %

100 %

Amosite
Crocidolite
Tremolite
Actinolite
Anthophyllite

Asbestos Total: NAD Fibrous Total: <1 % Non-Fibrous Total:

Associated Total. 1719 Total Total.

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803557 Color: Black

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #:20ADate Analyzed:1/22/2021Analyst:Steve GriffinQC'd By:Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose 35 % Filler/Binder

Amosite Fibrous Glass 10 % Tar 50 % Crocidolite Aggregate 5 %

Tremolite
Actinolite
Anthophyllite

Asbestos Total: NAD Fibrous Total: 45 % Non-Fibrous Total: 55 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803558 Color: Gray

Client Project #: 201030.02 Characterization: Homogeneous, Non-Fibrous

Client Sample #: 21A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Filler/Binder 100 % Amosite Tar <1 %

Amosite Crocidolite Tremolite Actinolite Anthophyllite

Asbestos Total: NAD Fibrous Total: Non-Fibrous Total: 100 %

Lab Project #: 231792 Lab Sample #: 803559 Color: Black

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 22A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose 10 % Filler/Binder

Amosite Fibrous Glass 35 % Tar 50 % Crocidolite Aggregate 5 %

Tremolite
Actinolite
Anthophyllite

Asbestos Total: NAD Fibrous Total: 45 % Non-Fibrous Total: 55 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803560 Color: Gray

Client Project #: 201030.02 Characterization: Homogeneous, Non-Fibrous

Client Sample #: 23A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Filler/Binder 100 % Amosite Tar <1 %

Crocidolite Tremolite Actinolite Anthophyllite

Asbestos Total: NAD Fibrous Total: Non-Fibrous Total: 100 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803561 Color: Black

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 24A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose 5 % Filler/Binder

Amosite Fibrous Glass 35 % Tar 50 %

Aggregate

10 %

Crocidolite Tremolite Actinolite

Anthophyllite

Asbestos Total: NAD Fibrous Total: 40 % Non-Fibrous Total: 60 %

Lab Project #: 231792 Lab Sample #: 803562 Color: Black

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 25A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose 10 % Filler/Binder

Amosite Tar 90 %

Crocidolite
Tremolite
Actinolite
Anthophyllite

Asbestos Total: NAD Fibrous Total: 10 % Non-Fibrous Total: 90 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803563 Color: Black

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 26A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Fibrous Glass 40 % Filler/Binder

Amosite Tar 50 % Crocidolite Aggregate 10 %

Tremolite
Actinolite
Anthophyllite

Asbestos Total: NAD Fibrous Total: 40 % Non-Fibrous Total: 60 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803564 Color: Gray

Client Project #: 201030.02 Characterization: Homogeneous, Non-Fibrous

Client Sample #: 27A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose <1 % Filler/Binder 100 %

Amosite Crocidolite Tremolite Actinolite Anthophyllite

Asbestos Total: NAD Fibrous Total: <1 % Non-Fibrous Total: 100 %

Lab Project #: 231792 Lab Sample #: 803565 Color: Black

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 28A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose 20 % Filler/Binder

Amosite Fibrous Glass 25 % Tar 50 % Crocidolite Aggregate 5 %

Tremolite
Actinolite
Anthophyllite

Asbestos Total: NAD Fibrous Total: 45 % Non-Fibrous Total: 55 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803566 Color: Black

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 29A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose 20 % Filler/Binder

Amosite Fibrous Glass 25 % Tar 50 % Crocidolite Aggregate 5 %

Crocidolite Tremolite Actinolite Anthophyllite

**Asbestos Total:** NAD Fibrous Total: 45 % Non-Fibrous Total: 55 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803567 Color: Gray

Client Project #: 201030.02 Characterization: Homogeneous, Non-Fibrous

Client Sample #: 30A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose <1 % Filler/Binder 100 %

Amosite Crocidolite Tremolite Actinolite Anthophyllite

Asbestos Total: NAD Fibrous Total: <1 % Non-Fibrous Total: 100 %

Lab Project #: 231792 Lab Sample #: 803568 Color: Black

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 31A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose 10 % Filler/Binder

Amosite Tar 90 %

Crocidolite Tremolite Actinolite Anthophyllite

Asbestos Total: NAD Fibrous Total: 10 % Non-Fibrous Total: 90 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803569 Color: Gray

Client Project #: 201030.02 Characterization: Homogeneous, Non-Fibrous

Client Sample #: 32A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose <1 % Filler/Binder 100 % Amosite

Crocidolite Tremolite Actinolite Anthophyllite

Asbestos Total: NAD Fibrous Total: <1 % Non-Fibrous Total: 100 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803570 Color: Black

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 33A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose 25 % Filler/Binder

Amosite Fibrous Glass 20 % Tar 50 %

Aggregate

5 %

Crocidolite Tremolite Actinolite

Anthophyllite

Asbestos Total: NAD Fibrous Total: 45 % Non-Fibrous Total: 55 %

Lab Project #: 231792 Lab Sample #: 803571 Color: Tan

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 34A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

Actinolite

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Fibrous Glass 5 % Filler/Binder 55 %

Amosite Aggregate 40 % Crocidolite
Tremolite

Anthophyllite
Asbestos Total: NAD Fibrous Total: 5 % Non-Fibrous Total: 95 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803572 Color: Silver

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 35A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Fibrous Glass 10 % Filler/Binder 10 % Amosite Tar 40 %

Crocidolite Aggregate 40 %
Tremolite
Actinolite

Anthophyllite
Asbestos Total: NAD Fibrous Total: 10 % Non-Fibrous Total: 90 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803573 Color: Black

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 36A Date Analyzed: 1/22/2021

Cheft Sample #: 50A Date Analyzed. 1/22/202

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose 25 % Filler/Binder
Amosite Fibrous Glass 20 % Tar 50 %

Amoste Fibrous Glass 20 % Tar 50 % Crocidolite Aggregate 5 % Tremolite Actinolite

Anthophyllite
Asbestos Total: NAD Fibrous Total: 45 % Non-Fibrous Total: 55 %

Lab Project #: 231792 Lab Sample #: 803574 Color: Black

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 37A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Fibrous Glass 30 % Filler/Binder

Amosite Tar 70 %

Crocidolite
Tremolite
Actinolite
Anthophyllite

Asbestos Total: NAD Fibrous Total: 30 % Non-Fibrous Total: 70 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803575 Color: Colorless

Client Project #: 201030.02 Characterization: Homogeneous, Non-Fibrous

Client Sample #:38ADate Analyzed:1/22/2021Analyst:Steve GriffinQC'd By:Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose <1 % Filler/Binder 100 %
Amosite

Crocidolite Tremolite Actinolite Anthophyllite

Asbestos Total: NAD Fibrous Total: <1 % Non-Fibrous Total: 100 %

SAMPLE LAYER DETAILS

Lab Project #: 231792 Lab Sample #: 803576 Color: Black

Client Project #: 201030.02 Characterization: Homogeneous, Fibrous

Client Sample #: 39A Date Analyzed: 1/22/2021

Analyst: Steve Griffin

Comments:

ASBESTOS COMPONENTS FIBROUS COMPONENTS NON-FIBROUS COMPONENTS

Chrysotile Cellulose 10 % Filler/Binder

Amosite Tar 90 %

Aggregate

<1 %

Crocidolite Tremolite Actinolite Anthophyllite

Asbestos Total: NAD Fibrous Total: 10 % Non-Fibrous Total: 90 %

# Omni Environmental, Inc. NVLAP LAB CODE 102061 TDH Lab License #30-0087

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Client Name: Baer Engineering & Envrionmental Consulting, Inc.			Contact: Prak Massel					
Address:	7756 Northcross Drive #211 Austin, Texas 78757		Email: butchese (a) bacseng.com					
Phone:	(512) 453 - 3733		Project/ PO Number: <b>201030.02</b>			Number of	of Samples:	
Fax:	(877) 283 - 9597			Stand		Rush: Next Da Same D Immedia	ay ate	
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