



September 12, 2012

Williamson County
Facilities Maintenance Department
3101 S.E. Inner Loop
Georgetown, Texas 78628

Sent via electronic mail to dgossett@wilco.org

Attention: Mr. Dwayne Gossett

Reference: LIMITED ASBESTOS SURVEY REPORT
Williamson County Historical Museum
716 S. Austin Avenue, Georgetown, Texas
Baer Engineering Document No. 121106-8i.010

Dear Mr. Gossett:

Baer Engineering and Environmental Consulting, Inc. (Baer Engineering) is pleased to report the results of our survey to identify asbestos-containing materials (ACMs) on the roof of the Williamson County Historical Museum, located at 716 S. Austin Avenue in Georgetown, Texas.

We understand that the roof is scheduled for replacement. Mr. Robert Long, a Texas Department of State Health Services-licensed Asbestos Inspector, performed the survey on August 10, 2012.

All material samples were collected by removing a small amount of suspect material and placing it in a zip-type plastic bag for delivery to the laboratory. Material samples were submitted to Omni Environmental, Inc. (Omni) of Austin, Texas, for microscopic analysis to identify asbestos content using Polarized Light Microscopy (PLM) as outlined in the Environmental Protection Agency's Method EPA 600/R-93/116. Omni is licensed by DSHS to perform laboratory analysis of material samples obtained from public buildings in Texas and is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

Materials sampled included roll roofing, tar, flashing, and caulk. Laboratory results indicate the roll roofing contains 10% Chrysotile asbestos. No asbestos was detected in the remaining samples. A sample log, sample and material location drawings, and photographs are attached.

The exterior of buildings, including the roof, is regulated under the National Emissions Standards for Hazardous Air Pollutants (NESHAPs). For roof renovation projects, if the total asbestos-containing roof area undergoing renovation is less than 160 square feet, the NESHAP does not apply, regardless of the removal method to be used. The Environmental Protection Agency (EPA) has determined that 5,580 square feet of roofing material will create 160 square feet of friable ACM. Therefore, it is EPA's interpretation that roofing material that is to become friable during renovation must be at 5,580 square feet or greater to be subject to the NESHAP.

Notification for a demolition is always required under the NESHAP. However, EPA believes that few roof removal projects constitute “demolition” as defined in the NESHAP. If the operation is a renovation, and roofing material is being removed using either manual methods or slicing (but not when using a powered rotating blade cutter), notification is not required by the NESHAP.


The museum roof is approximately 3,045 square feet and its replacement is not considered a demolition. The NESHAP rules do not apply. NESHAP training and waste disposal rules, however, apply if removal of the asbestos-containing roofing materials is accomplished with a powered rotating blade cutter that produces airborne dust and fibers. In addition, Texas Commission on Environmental Quality waste disposal rules apply.

Baer Engineering observed existing conditions on the roof using generally accepted procedures. Concealed materials may not be detected if there are no visible indications that such materials are present. Baer Engineering attempted to locate hidden materials, based upon the inspector’s professional judgment of where such materials may likely exist. However, please be aware that it may not be possible to identify all concealed materials.

This report has been prepared for the sole use of Williamson County 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 and Environmental Consulting, Inc.

We appreciate the opportunity to be of service. Please contact us if you have any questions regarding these services or the information reported.

Sincerely,
BAER ENGINEERING AND ENVIRONMENTAL CONSULTING, INC.


Robert Long
Asbestos Inspector


Stephanie Ashley
Asbestos Consultant

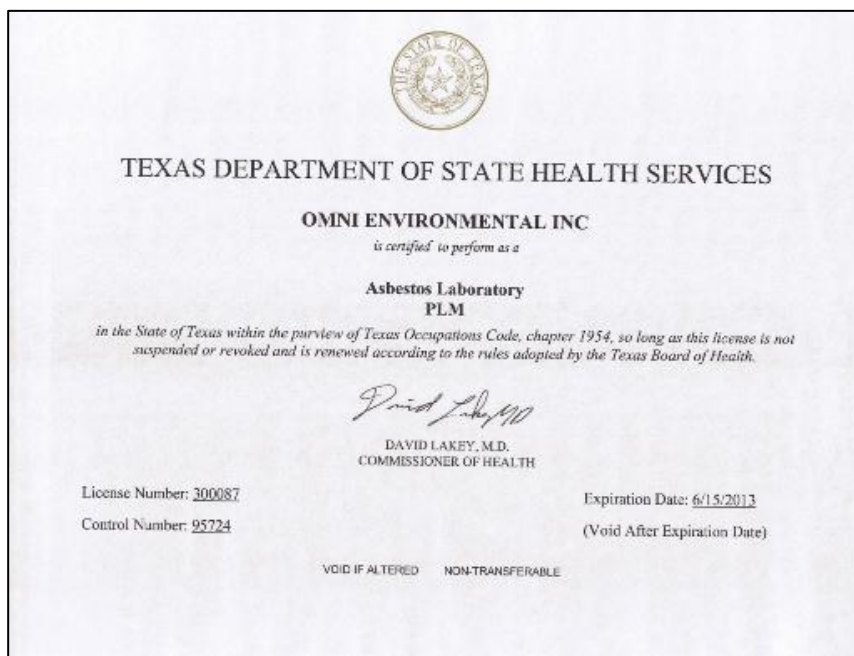
Attachments: Sample Log
Copies of Baer Engineering and Laboratory Licenses
Laboratory Analysis Reports

SAMPLE LOG

SAMPLE ID	DESCRIPTION OF HOMOGENEOUS MATERIAL	ASBESTOS CONTENT (%)*
01A	Gray granular roll roofing	10% Chrysotile
01B	Gray granular roll roofing	10% Chrysotile
01C	Gray granular roll roofing	10% Chrysotile
02A	Black tar around seams on toll roofing	NAD
02B	Black tar around seams on toll roofing	NAD
02C	Black tar around seams on toll roofing	NAD
03A	Gray Flashing around vents and sky lights	NAD
03B	Gray Flashing around vents and sky lights	NAD
03C	Gray Flashing around vents and sky lights	NAD
04A	Beige caulk around metal strip on north wall	NAD
04B	Beige caulk around metal strip on north wall	NAD
04C	Beige caulk around metal strip on north wall	NAD
* NAD = No asbestos detected		

DSHS LICENSES AND LABORATORY ACCREDITATIONS





LABORATORY REPORT

SAMPLE SUMMARY REPORT

Omni Environmental, Inc.

8900 Shoal Creek Blvd Suite 121

Austin, TX 78757

(512) 258-9114

NVLAP LABCODE 102061.0

TDSHS Lab License 30-0087

Client Name: Baer Engineering, Inc.

Contact Name: Robert Long

Client Project Number: 121060.01

Lab Project #: 215934

Client Sample Number	Lab Sample Number	Asbestos Type and %	Asbestos Content by Layer
01A	605171	Chry 10%	
01B	605172	Chry 10%	
01C	605173	Chry 10%	
02A	605174	NAD	
02B	605175	NAD	
02C	605176	NAD	
03A	605177	NAD	
03B	605178	NAD	
03C	605179	NAD	
04A	605180	NAD	
04B	605181	NAD	
04C	605182	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.

BULK SAMPLE ANALYSIS REPORT

Omni Environmental, Inc.

8900 Shoal Creek Blvd Suite 121

Austin, TX 78757

(512) 258-9114

NVLAP LABCODE 102061.0

TDSHS Lab License 30-0087

August 15, 2012

Robert Long

Baer Engineering, Inc.

7756 Northcross Drive Ste. 211

Austin, TX 78757-1725

Dear Mr. Long:

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

Client Project #:	121060.01	Lab Project #:	215934
Date Received:	8/10/2012	Received By:	Steve Griffin
Delivery Agency:	Hand Delivered	Name/Tracking #:	Robert Long
Date Logged:	8/10/2012	Logged in by:	April Griffin
Analysis Completed:	8/15/2012	Samples in Project:	12

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

Thank you for your business.

Sincerely,

Monika Enriquez

Digitally signed by Monika Enriquez
DN: cn=Monika Enriquez, o=Omni
Environmental, Inv, ou=Asbestos Lab,
email=menriquez@omnienv.com, c=US
Date: 2012.08.15 19:04:42 -05'00'

Monika Enriquez, Senior Analyst

BULK SAMPLE ANALYSIS REPORT

Lab Project #: 215934 Lab Sample #: 605171 Color: Black
Client Project #: 121060.01 Characterization: Heterogeneous, Fibrous
Client Sample #: 01A Date Analyzed: 8/15/2012
Analyst: Monika Enriquez
Comments:

<u>ASBESTOS COMPONENTS</u>		<u>FIBROUS COMPONENTS</u>		<u>NON-FIBROUS COMPONENTS</u>	
Chrysotile	10 %	Fibrous Glass	20 %	Filler/Binder	
Amosite				Tar	60 %
Crocidolite				Aggregate	10 %
Tremolite					
Actinolite					
Anthophyllite					
Asbestos Total:	10 %	Fibrous Total:	20 %	Non-Fibrous Total:	70 %

SAMPLE LAYER DETAILS

Lab Project #: 215934 Lab Sample #: 605172 Color: Black
Client Project #: 121060.01 Characterization: Heterogeneous, Fibrous
Client Sample #: 01B Date Analyzed: 8/15/2012
Analyst: Monika Enriquez
Comments:

<u>ASBESTOS COMPONENTS</u>		<u>FIBROUS COMPONENTS</u>		<u>NON-FIBROUS COMPONENTS</u>	
Chrysotile	10 %	Fibrous Glass	20 %	Filler/Binder	
Amosite				Tar	60 %
Crocidolite				Aggregate	10 %
Tremolite					
Actinolite					
Anthophyllite					
Asbestos Total:	10 %	Fibrous Total:	20 %	Non-Fibrous Total:	70 %

SAMPLE LAYER DETAILS

Lab Project #: 215934 Lab Sample #: 605173 Color: Black
Client Project #: 121060.01 Characterization: Heterogeneous, Fibrous
Client Sample #: 01C Date Analyzed: 8/15/2012
Analyst: Monika Enriquez
Comments:

<u>ASBESTOS COMPONENTS</u>		<u>FIBROUS COMPONENTS</u>		<u>NON-FIBROUS COMPONENTS</u>	
Chrysotile	10 %	Fibrous Glass	20 %	Filler/Binder	
Amosite				Tar	60 %
Crocidolite				Aggregate	10 %
Tremolite					
Actinolite					
Anthophyllite					
Asbestos Total:	10 %	Fibrous Total:	20 %	Non-Fibrous Total:	70 %

SAMPLE LAYER DETAILS

BULK SAMPLE ANALYSIS REPORT

Lab Project #:	215934	Lab Sample #:	605174	Color:	Black
Client Project #:	121060.01			Characterization:	Homogeneous, Non-Fibrous
Client Sample #:	02A			Date Analyzed:	8/15/2012
Analyst:	Monika Enriquez				
Comments:					

<u>ASBESTOS COMPONENTS</u>	<u>FIBROUS COMPONENTS</u>	<u>NON-FIBROUS COMPONENTS</u>
Chrysotile		Filler/Binder 2 %
Amosite		Tar 98 %
Crocidolite		
Tremolite		
Actinolite		
Anthophyllite		
Asbestos Total:	NAD	Fibrous Total:
		Non-Fibrous Total: 100 %

SAMPLE LAYER DETAILS

Lab Project #:	215934	Lab Sample #:	605175	Color:	Black
Client Project #:	121060.01			Characterization:	Homogeneous, Non-Fibrous
Client Sample #:	02B			Date Analyzed:	8/15/2012
Analyst:	Monika Enriquez				
Comments:					

<u>ASBESTOS COMPONENTS</u>	<u>FIBROUS COMPONENTS</u>	<u>NON-FIBROUS COMPONENTS</u>
Chrysotile		Filler/Binder 2 %
Amosite		Tar 98 %
Crocidolite		
Tremolite		
Actinolite		
Anthophyllite		
Asbestos Total:	NAD	Fibrous Total:
		Non-Fibrous Total: 100 %

SAMPLE LAYER DETAILS

Lab Project #:	215934	Lab Sample #:	605176	Color:	Black
Client Project #:	121060.01			Characterization:	Homogeneous, Non-Fibrous
Client Sample #:	02C			Date Analyzed:	8/15/2012
Analyst:	Monika Enriquez				
Comments:					

<u>ASBESTOS COMPONENTS</u>	<u>FIBROUS COMPONENTS</u>	<u>NON-FIBROUS COMPONENTS</u>
Chrysotile		Filler/Binder 2 %
Amosite		Tar 98 %
Crocidolite		
Tremolite		
Actinolite		
Anthophyllite		
Asbestos Total:	NAD	Fibrous Total:
		Non-Fibrous Total: 100 %

SAMPLE LAYER DETAILS

BULK SAMPLE ANALYSIS REPORT

Lab Project #: 215934 Lab Sample #: 605177 Color: Black
Client Project #: 121060.01 Characterization: Heterogeneous, Fibrous
Client Sample #: 03A Date Analyzed: 8/15/2012
Analyst: Monika Enriquez
Comments:

<u>ASBESTOS COMPONENTS</u>		<u>FIBROUS COMPONENTS</u>	<u>NON-FIBROUS COMPONENTS</u>
Chrysotile		Fibrous Glass	10 %
Amosite			Filler/Binder 3 %
Crocidolite			Tar 85 %
Tremolite			Aggregate 2 %
Actinolite			
Anthophyllite			
Asbestos Total:	NAD	Fibrous Total:	10 %
		Non-Fibrous Total:	90 %

SAMPLE LAYER DETAILS

Lab Project #: 215934 Lab Sample #: 605178 Color: Black
Client Project #: 121060.01 Characterization: Heterogeneous, Fibrous
Client Sample #: 03B Date Analyzed: 8/15/2012
Analyst: Monika Enriquez
Comments:

<u>ASBESTOS COMPONENTS</u>		<u>FIBROUS COMPONENTS</u>	<u>NON-FIBROUS COMPONENTS</u>
Chrysotile		Fibrous Glass	10 %
Amosite			Filler/Binder 3 %
Crocidolite			Tar 85 %
Tremolite			Aggregate 2 %
Actinolite			
Anthophyllite			
Asbestos Total:	NAD	Fibrous Total:	10 %
		Non-Fibrous Total:	90 %

SAMPLE LAYER DETAILS

Lab Project #: 215934 Lab Sample #: 605179 Color: Black
Client Project #: 121060.01 Characterization: Heterogeneous, Fibrous
Client Sample #: 03C Date Analyzed: 8/15/2012
Analyst: Monika Enriquez
Comments:

<u>ASBESTOS COMPONENTS</u>		<u>FIBROUS COMPONENTS</u>	<u>NON-FIBROUS COMPONENTS</u>
Chrysotile		Fibrous Glass	10 %
Amosite			Filler/Binder 5 %
Crocidolite			Tar 75 %
Tremolite			Metal 10 %
Actinolite			
Anthophyllite			
Asbestos Total:	NAD	Fibrous Total:	10 %
		Non-Fibrous Total:	90 %

SAMPLE LAYER DETAILS

BULK SAMPLE ANALYSIS REPORT

Lab Project #:	215934	Lab Sample #:	605180	Color:	Gray
Client Project #:	121060.01			Characterization:	Homogeneous, Non-Fibrous
Client Sample #:	04A			Date Analyzed:	8/15/2012
Analyst:	Monika Enriquez				
Comments:					

<u>ASBESTOS COMPONENTS</u>	<u>FIBROUS COMPONENTS</u>	<u>NON-FIBROUS COMPONENTS</u>
Chrysotile	Cellulose	Filler/Binder
Amosite		
Crocidolite		
Tremolite		
Actinolite		
Anthophyllite		
Asbestos Total:	Fibrous Total:	Non-Fibrous Total:
NAD	<1 %	100 %

SAMPLE LAYER DETAILS

Lab Project #:	215934	Lab Sample #:	605181	Color:	Gray
Client Project #:	121060.01			Characterization:	Homogeneous, Non-Fibrous
Client Sample #:	04B			Date Analyzed:	8/15/2012
Analyst:	Monika Enriquez				
Comments:					

<u>ASBESTOS COMPONENTS</u>	<u>FIBROUS COMPONENTS</u>	<u>NON-FIBROUS COMPONENTS</u>
Chrysotile	Cellulose	Filler/Binder
Amosite		
Crocidolite		
Tremolite		
Actinolite		
Anthophyllite		
Asbestos Total:	Fibrous Total:	Non-Fibrous Total:
NAD	<1 %	100 %

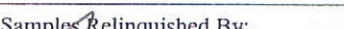

SAMPLE LAYER DETAILS

Lab Project #:	215934	Lab Sample #:	605182	Color:	Gray
Client Project #:	121060.01			Characterization:	Homogeneous, Non-Fibrous
Client Sample #:	04C			Date Analyzed:	8/15/2012
Analyst:	Monika Enriquez				
Comments:					

<u>ASBESTOS COMPONENTS</u>	<u>FIBROUS COMPONENTS</u>	<u>NON-FIBROUS COMPONENTS</u>
Chrysotile	Cellulose	Filler/Binder
Amosite		
Crocidolite		
Tremolite		
Actinolite		
Anthophyllite		
Asbestos Total:	Fibrous Total:	Non-Fibrous Total:
NAD	<1 %	100 %

SAMPLE LAYER DETAILS

NVLAP LAB CODE 102061
TDH Lab License #30-0087

Samples Relinquished By: 	Date/Time: 8/10/12	Samples Received By: 	Date/Time: 8/10/12 1345
Payment Received: _____ Cash _____ Check 215934			