

#### **ASBESTOS SURVEY FOR**

Branard Street Facility 612 Branard Houston, Texas 77006

EFI Project No. 17-98410-21964

**Prepared For:** 

The Harris Center for Mental Health and IDD 9401 Southwest Freeway Houston, Texas 77074

Prepared by:

EFI Global, Inc. (EFI) 2000 Dairy Ashford, Suite 600 Houston, Texas 77042

**February 1, 2017** 



2000 Dairy Ashford Suite 600 Houston, Texas 77077 TF: 866-464-2127 Tel: 832-518-5145 Fax: 832-518-5157 www.efiglobal.com

February 1, 2017

Ms. Karen Hurst The Harris Center for Mental Health and IDD 9401 Southwest Freeway Houston, Texas 77074

Subject:

**Asbestos Survey** 

**Branard Street Facility** 

612 Branard

Houston, Texas 77006

EFI Project No. 17-98410-21964

Dear Mr. Hurst:

EFI Global, Inc. (EFI) has completed an asbestos survey at the Branard Street Facility located in Houston, Texas. EFI performed this work for The Harris Center for Mental Health and IDD (The Harris Center) in general accordance with our Proposal No. 98410-17-0042 dated January 13, 2017. The field survey was conducted by Messrs. Cuong Nguyen and Kenneth Capps of EFI on January 24, 2017. Ms. Karen Hurst of The Harris Center and the Property Manager (Donna) assisted in providing information and access to the subject buildings.

#### 1.0 PROJECT INFORMATION

It is our understanding that The Harris Center is planning a possible Facility Upgrade Project at the Branard Street Facility located at 612 Branard in Houston, Texas. The subject facility is a housing facility and encompasses a total of five buildings: Building 1 is two-story wood framed structure with a total of 6 units (Units 1, 2 and 3 on the first level, Units 6, 7 and 8 on the second level); Building 2 is two-story wood framed structure with a total of 6 units (Units 4 and 5 on the first level, Units 9 and 10 on the second level); Building 3 is a two-story wood frame structure with Units 11 and 12 (Office) on the second level and parking and storage on the first level; Building 4 is one-story wood frame structure which houses a storage room; and Building 5 is one-story wood frame structure which houses the laundry room and hot water heater room. The Facility Upgrade Project will include kitchen upgrades, bathroom upgrades, and repairs/new finishes in the living room and bedroom in the units in Buildings 1 and 2. No interior renovations are planned in Building 3 as interior renovations have been previously performed. Minor renovations may be performed on the interior in Buildings 4 and 5. The existing roofs on the buildings are also scheduled to be replaced.

Subsequently, EFI was retained by The Harris Center to perform an asbestos survey in Buildings 1, 2, 4 and 5; some limited asbestos sampling (plaster/stucco material on the first floor garage structure) in Building 3; and roof core sampling of the typical roofs on Buildings 1 and 2. The primary purpose of our survey was to sample and analyze various building



materials for asbestos in the subject buildings to satisfy federal/state asbestos regulatory requirements for the planned future renovation of the buildings.

#### 2.0 ASBESTOS SURVEY

EFI performed an asbestos survey of the subject buildings to identify and locate asbestos-containing materials (ACM), if present. The asbestos survey was performed by Messrs. Cuong Nguyen (DSHS License No. 10-5516) and Kenneth Capps (DSHS License No. 60-3025) of EFI on January 24, 2017.

#### 2.1 General

The intent of the survey was to locate, sample and analyze typical suspect friable and non-friable asbestos-containing materials at the subject buildings. Our survey was performed in general accordance with the Texas Department of State Health Services' (DSHS) asbestos regulations and the Environmental Protection Agency's (EPA) Asbestos Hazard Emergency Response Act (AHERA) sampling protocol. This protocol requires a specified number of samples be obtained and analyzed based on homogeneous areas of individual building materials.

#### 2.2 Field Sampling

During the field portion of our survey, we conducted a reconnaissance of visible and readily-accessible areas of the subject buildings to identify materials typically suspected of containing asbestiform minerals. Material sampling was then performed to obtain representative samples of suspect materials in the subject buildings. For surveying and reporting purposes, we segregated our sampling by building.

The samples were collected in general accordance with EPA's AHERA surveying protocol and from representative areas of the various types of suspect asbestos-containing building materials identified. The suspect materials identified in each building were initially divided into homogeneous areas for sampling. A homogeneous area is an area of surfacing material, thermal system insulation, or miscellaneous material that is uniform in color and texture, apparently applied at similar times, and appears identical in every other respect. No attempt was made to sample inaccessible areas, disassemble equipment or demolish structural and finish materials. Building cavities, mechanical parts and underground services/components which were inaccessible were not included in our review.

#### 2.3 Laboratory Analysis

The samples collected were transported to EFI's subcontract laboratory (J3 Resources in Houston, Texas) for analysis. J3 Resources is a successful participant in the Department of Commerce, National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program (NVLAP) and licensed by the Texas Department of State Health Services (DSHS License No. 30-0273).



All sampled materials were analyzed using Polarized Light Microscopy (PLM) coupled with dispersion staining as detailed in the EPA's "Method for the Determination of Asbestos in Bulk Building Materials" (EPA/600/R-93/116). Percentages for the samples were determined by visual area estimation.

The EPA (National Emission Standards for Hazardous Air Pollutants (NESHAP)--40 CFR Part 61, dated November 20, 1990) and Occupational Safety and Health Administration (OSHA 29 CFR Part 1910 and 1926) define ACM as any material that contains greater than one percent asbestos as determined by visual area estimation. To treat a material as non-asbestos containing, the EPA has provisions for additional analysis by point counting of Regulated Asbestos-Containing Materials (RACM) found to contain less than 10 percent asbestos by visual area estimation.

The analysis of samples obtained with respect to the presence and amount of asbestos, if any, is limited to that for the discrete area and quantity of material sampled at that particular location. Different analytical results may be obtained at adjacent areas due to variations in the material type and consistency. Resinously bound materials (e.g. floor tile, mastics, etc.), when analyzed by the EPA method, may yield false negative results because of limitations in separating closely bound fibers and in detecting fibers of small length and diameter. When a definitive result is required, EFI recommends utilizing alternative methods of identification, including transmission electron microscopy (TEM).

#### 2.4 Summary of Laboratory Results

#### Visual Area Estimation Analytical Results

The following table presents a summary of the samples collected and those found to contain asbestiform minerals by visual area estimation on a building by building basis.

Hor	nogeneous Area/Material Sampled	No. of Samples Collected	No. of Samples Analyzed	No. of Samples w/Asbestiform Minerals	Sample Results by Visual Estimation
Bui	lding 1 (Units 1, 2, 3, 6, 7 and 8)				
01	Unit 6 - Gypsum Wallboard with Paint/Texture/Joint Compound	3	3	3	Texture/Joint Compound Layers: <1% Chrysotile Asbestos
02	Square Pattern Floor Sheeting with Yellow/Black Mastic	3	3	0	Floor Sheeting: No Asbestos Detected; Yellow/Black Mastic: No Asbestos Detected
03	12"x12" Grey Brain Coral Floor Tile and Yellow Mastic	5	5	0	Floor Tile: No Asbestos Detected; Yellow Mastic: No Asbestos Detected
04	Grey Float Compound with Yellow Mastic	2	2	0	No Asbestos Detected



Hor	mogeneous Area/Material Sampled	No. of Samples Collected	No. of Samples Analyzed	No. of Samples w/Asbestiform Minerals	Sample Results by Visual Estimation
05	Unit 7 - Gypsum Wallboard with Paint/Texture/Joint Compound	3	3	2	Texture/Joint Compound Layers: No Asbestos Detected to 2% Chrysotile Asbestos (Point Count: 3.50%)
06	Yellow/Beige Cove Base Mastic	7	7	0	No Asbestos Detected
07	Black Sink Undercoating	1	1	0	No Asbestos Detected
08	Grey Exterior Duct Mastic	2	2	0	No Asbestos Detected
09	Roof Field and Flashing Cores	2	2	0	No Asbestos Detected
11	Unit 8 - Gypsum Wallboard with Paint/Texture/Joint Compound	3	3	2	Texture/Joint Compound Layers: No Asbestos Detected to <1% Chrysotile Asbestos
12	Unit 1 - Gypsum Wallboard with Paint/Texture/Joint Compound	3	3	0	No Asbestos Detected
13	Rectangle Wood Pattern Floor Tile and Beige Mastic	3	3	0	Floor Tile: No Asbestos Detected; Beige Mastic: No Asbestos Detected
14	Unit 2 - Gypsum Wallboard with Paint/Texture/Joint Compound	3	3	0	No Asbestos Detected
15	Unit 3 - Gypsum Wallboard with Paint/Texture/Joint Compound	3	3	0	No Asbestos Detected
Buil	ding 2 (Units 4, 5, 9 and 10)				
02	Square Pattern Floor Sheeting with Yellow/Black Mastic	2	2	0	Floor Sheeting: No Asbestos Detected; Yellow/Black Mastic: No Asbestos Detected
03	12"x12" Grey Brain Coral Floor Tile and Yellow Mastic	4	4	0	Floor Tile: No Asbestos Detected; Yellow Mastic: No Asbestos Detected
06	Yellow/Beige Cove Base Mastic	4	4	0	No Asbestos Detected
08	Grey Exterior Duct Mastic	1	1	0	No Asbestos Detected
10	Roof Field and Flashing Cores	2	2	0	No Asbestos Detected
19	Unit 10 - Gypsum Wallboard with Paint/Texture/Joint Compound	3	3	3	Texture/Joint Compound Layers: 2% Chrysotile Asbestos (Point Count: 1.75 to 2.00%)
20	Unit 9 - Gypsum Wallboard with Paint/Texture/Joint Compound	3	3	3	Texture/Joint Compound Layers: No Asbestos Detected to 2% Chrysotile Asbestos (Point Count: 1.50 to 1.75%)
21	Unit 4 - Gypsum Wallboard with Paint/Texture/Joint Compound	3	3	0	No Asbestos Detected



Hon	nogeneous Area/Material Sampled	No. of Samples Collected	No. of Samples Analyzed	No. of Samples w/Asbestiform Minerals	Sample Results by Visual Estimation		
22	Unit 5 - Gypsum Wallboard with Paint/Texture/Joint Compound	3	3	0	No Asbestos Detected		
Buil	Building 3 (Unit 11 and 12)						
07	Column Plaster	3	3	0	No Asbestos Detected		
Buil	ding 4 (Storage Building)						
18	Gypsum Wallboard with Paint/Texture/Joint Compound	3	3	0	No Asbestos Detected		
Buil	Building 5 (Laundry Building)						
16	Gypsum Wallboard with Paint/Texture/Joint Compound	3	3	0	No Asbestos Detected		

The visual area estimation laboratory results for the samples analyzed are included in Appendix A along with the Chain of Custody form indicating the location of the samples collected. Sample location plans are also included in Appendix C.

The EPA, Occupational Safety and Health Administration (OSHA) and DSHS consider a material to be asbestos-containing if it contains more than 1 percent asbestos by visual area estimation of percent. In addition, the EPA has provisions for additional analysis by point counting of Regulated Asbestos Containing Materials (RACM) found to contain less than 10 percent asbestos by visual area estimation to determine if the material is asbestos-containing or not. Based in the initial visual area estimation results, a total of seven (7) gypsum wallboard with paint/texture/joint compound samples from Units 7, 9 and 10 were found to contain 2 percent asbestos in the texture/joint compound layers of the samples. The seven (7) samples with the texture/joint compound layers that were found to contain 2 percent asbestos were further analyzed by point counting to determine whether the material is asbestos-containing or not.

#### Point Counting Analytical Results

In accordance with the EPA's recommended guidelines, the seven (7) gypsum wallboard with paint/texture/joint compound samples found to contain 2 percent asbestos by visual area estimation were re-analyzed utilizing point counting. Since the asbestos was confined to texture/joint compound layers of the samples, only the texture/joint compound layers of the samples were re-analyzed by point counting. The results of the re-analysis of the seven (7) samples determined that the texture/joint compound layers contained from 1.50 to 3.50 percent Chrysotile asbestos when analyzed by point counting. The point counting laboratory results are included in Appendix B.

Based on the visual area estimation and point counting results, the gypsum wallboard materials in Units 7 (Building 1), 9 (Building 2) and 10 (Building 2) would be considered asbestos-



containing. The gypsum wallboard materials in all other units and/or buildings tested would be considered non-asbestos-containing.

#### Materials Presumed To Be Asbestos-Containing

As no destructive sampling methods were employed to sample inaccessible materials, suspect building materials that may be uncovered during the planned demolition activities should be presumed to be asbestos-containing until sampling proves otherwise. These include any inaccessible suspect building materials that may be located above "hard" or inaccessible ceilings, beneath existing flooring, behind walls, in pipe chases or below ground.

#### 2.5 Asbestos-Containing Materials Discussion

There are no local, state, EPA or OSHA regulations mandating removal of ACM from an office or commercial, or governmental building. However, the EPA (NESHAP regulations--40 CFR Part 61), OSHA (29CFR Part 1926), and Texas Department of State Health Services (DSHS) asbestos regulations require that asbestos be properly handled during renovation and demolition.

In the NESHAP regulations, the EPA classifies ACM into three categories, friable ACM, Category I non-friable ACM, and Category II non-friable ACM. "Friable" ACM refers to materials containing asbestos which, when dry, can easily be pulverized, or reduced to powder by hand pressure. "Category I non-friable" ACM refers to asbestos-containing packings, gaskets, resilient floor coverings and asphalt roof coverings. "Category II non-friable" ACM refers to any ACM, excluding Category I non-friable ACM, which, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Based on the above EPA definitions and our field observations during the survey, we would classify the identified asbestos-containing Gypsum Wallboard Materials in Units 7 (Building 1), 9 (Building 2) and 10 (Building 2) as Category II non-friable ACM. The EPA regulations further require the removal of all Regulated Asbestos-Containing Material (RACM) from a building being demolished or area being renovated prior to any activity that would disturb the material. The regulations define RACM as "(a) Friable ACM, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subject to sanding, grinding, cutting, or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations".

#### 2.6 Conclusion and Recommendations

The ACM identified during our survey included Gypsum Wallboard Materials in Units 7 (Building 1), 9 (Building 2) and 10 (Building 2). No asbestos was identified in the remaining units and/or building areas surveyed.

For the purposes of any future renovation activities, we would recommend that the identified ACM at the subject facility be removed and disposed by a DSHS licensed asbestos abatement contractor prior to any renovation/demolition activities that would disturb the ACM. As required



by the Texas Department of State Health Services' (DSHS) regulations, the abatement project should be designed by a DSHS licensed asbestos consultant. Any additional suspect ACM which may be uncovered by any future renovation/demolition activities and which were not sampled as part of the asbestos survey, should also be considered asbestos-containing until sampling and analysis indicate otherwise.

While not required by any asbestos regulations, it is recommended that in the interim period between when ACM are identified until they are eventually removed that they be included in an Operations and Maintenance Program (OMP). This type of program provides for the in place management of these materials and establishes controls to minimize potential exposure of building occupants and maintenance personnel.

#### 3.0 QUALIFICATION OF REPORT

The information included in this report addressed limited objectives related to the identification and delineation of asbestos-containing materials at the subject buildings. It is not intended to fully delineate or determine locations of all hazardous materials. This data may not be appropriate or adequate for planning alternative response actions or for health hazard assessments. Further, this information should not be used by other parties as a basis for estimating abatement costs or for other purposes without our consultation. The responsibility for any interpretations thereof is borne exclusively by the user.

The activities of this survey included observations of materials in accessible areas. The suspect materials noted and/or sampled appeared to be representative of the types of materials used in the construction of the subject buildings. Except as noted, the survey did not include the surveying of materials in enclosed building areas, on underground building services, or in building cavities. Should any additional suspect materials be uncovered during the planned demolition activities, these areas should be reviewed prior to proceeding with the demolition activities in the affected areas.

#### 4.0 CLOSING

The material samples obtained during this survey and listed in Appendix A will be retained in our laboratory for a period of 60 days from the date of this report. We will dispose of all samples obtained during this survey and retained in our laboratory more than 60 days, if we have not received your instructions for the disposition of these samples.

This report has been prepared on behalf of and for the exclusive use of The Harris Center. This report and the findings contained herein shall not, in whole or in part, be relied upon by any other party without EFI's prior written consent.



EFI appreciates this opportunity to provide consulting services for The Harris Center. Please contact us should any questions arise concerning this report.

Sincerely,

EFI GLOBAL, INC.

Cuong Nguyen

**Project Manager** 

Wellington D. Joe

Senior Project Manager

Attachments: Appendix A - Visual Area Estimation Laboratory Results/Field Notes

Appendix B - Point Counting Laboratory Results Appendix C - Sample Location Floor Plans Appendix D - Licenses and Certificates

WDJ/wdj:17-98410-21964.002



# APPENDIX A VISUAL AREA ESTIMATION LABORATORY RESULTS/FIELD NOTES

6110 W. 34th Street, Houston, Texas 77092 Phone: (713) 290-0221 - Fax: (713) 290-0248 *J3Resources.com* 



# Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116

Alex Nguyen EFI Global 2000 Dairy Ashford, Ste 600 Houston TX 77077 J3 Order #: JH1782563
Project #: 98410-21964
Date Received: 24-Jan-2017
Date Analyzed: 27-Jan-2017
Date Reported: 30-Jan-2017

#### **612 Branard Street Facility**

Sample ID #	Sample Description	Asbestos Constituents	5	Non-Asbestos Constituents	
1-1	LAYER 1 Painted Texture, White/ Off White, Homogeneous	Chrysotile	<1%	Other Non-Fibrous Material	100%
	LAYER 2 Wallboard, Brown/ White, Homogeneous	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
1-2	LAYER 1 Painted Texture, White/ Off White, Homogeneous	Chrysotile	<1%	Other Non-Fibrous Material	100%
	LAYER 2 Wallboard, Brown/ White, Homogeneous	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
1-3	LAYER 1 Painted Texture, White/ Off White, Homogeneous	Chrysotile	<1%	Other Non-Fibrous Material	100%
	LAYER 2 Wallboard, Brown/ White, Homogeneous	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
2-1	LAYER 1 Sheet Flooring, Gray, Homogeneous	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	23% 2% 75%
	LAYER 2 Mastic, Black, Homogeneous	None Detected		Other Non-Fibrous Material	100%
3-1	LAYER 1 Floor Tile, Gray, Homogeneous	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected		Other Non-Fibrous Material	100%

Elizabeth Wilson

Analyst

Scott Ward, Ph.D. Lab Director

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NVLAP Lab Code: 200525-0

AIHA Lab ID: 157714

TDSHS License: 30-0273

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Sample ID #	Sample Description	Asbestos Constituents	8	Non-Asbestos Constituents	
4-1	LAYER 1 Float, Gray, Homogeneous	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected		Other Non-Fibrous Material	100%
5-1	LAYER 1 Texture, Beige, Homogeneous	Chrysotile	2%	Other Non-Fibrous Material	98%
	LAYER 2 Tape, Beige, Homogeneous	None Detected		Cellulose Fiber	100%
	LAYER 3 Joint Compound, Beige, Homogeneous	Chrysotile	2%	Other Non-Fibrous Material	98%
	LAYER 4	None Detected		Cellulose Fiber	10%
	Wallboard, Brown/ White, Homogeneous			Other Non-Fibrous Material	90%
5-2	LAYER 1 Texture, White, Homogeneous	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Painted Texture, Blue/ Beige, Homogeneous	Chrysotile	<1%	Other Non-Fibrous Material	100%
	LAYER 3	None Detected		Cellulose Fiber	10%
	Wallboard, Brown/ White, Homogeneous			Other Non-Fibrous Material	90%
5-3	LAYER 1 Adhesive, Tan, Homogeneous	None Detected		Other Non-Fibrous Material	100%
	LAYER 2	None Detected		Cellulose Fiber	15%
	Paint/ Wall Paper, Blue/ Green, Homogeneous			Other Non-Fibrous Material	85%
	LAYER 3	None Detected		Cellulose Fiber	10%
	Wallboard, Brown/ White, Homogeneous			Other Non-Fibrous Material	90%

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Analyst

Scott Ward, Ph.D. Lab Director

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#### **Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)** EPA 600/M4-82-020; 600/R-93/116

Alex Nguyen **EFI Global** 2000 Dairy Ashford, Ste 600 Houston TX 77077

J3 Order #: Project #:

JH1782563

**Date Received:** 

98410-21964 24-Jan-2017

Date Analyzed:

27-Jan-2017

Date Reported:

30-Jan-2017

#### **612 Branard Street Facility**

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
3-2	LAYER 1 Floor Tile, Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%
6-1	Cove Base Mastic, Yellow, Homogene	ous None Detected	Other Non-Fibrous Material	100%
6-2	Cove Base Mastic, Cream, Homogeneous	None Detected	Other Non-Fibrous Material	100%
6-3	Cove Base Mastic, Yellow, Homogene	ous None Detected	Other Non-Fibrous Material	100%
2-2	LAYER 1 Sheet Flooring, Beige, Homogeneous	None Detected	Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	23% 2% 75%
	LAYER 2 Float, Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 3 Adhesive, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%
7-1	Sink Undercoat, Black/ Brown, Homogeneous	None Detected	Other Non-Fibrous Material	100%
8-1	Duct Mastic, Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%
8-2	Duct Mastic, Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%
8-3	Duct Mastic, Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%

Elizabeth Wilson

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Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
4-2	LAYER 1 Float, Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%
9-1	LAYER 1 Roof Shingle, Gray/ Black, Homogeneous	None Detected	Cellulose Fiber Synthetic Fiber Other Non-Fibrous Material	15% 10% 75%
	LAYER 2 Roof Shingle, Gray/ Black, Homogeneous	None Detected	Cellulose Fiber Synthetic Fiber Other Non-Fibrous Material	15% 10% 75%
	LAYER 3 Roof Shingle, Black, Homogeneous	None Detected	Cellulose Fiber Synthetic Fiber Other Non-Fibrous Material	15% 10% 75%
	LAYER 4 Roof Felt, Black, Homogeneous	None Detected	Fibrous Glass Other Non-Fibrous Material	15% 85%
	LAYER 5 Tar, Black, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 6 Insulation, Gray, Homogeneous	None Detected	Cellulose Fiber Other Non-Fibrous Material	85% 15%
	Roofing Core			

Elizabeth Wilson

Analyst

Scott Ward, Ph.D. Lab Director

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Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
9-2	LAYER 1 Roof Shingle, White/ Black,	None Detected	Cellulose Fiber Synthetic Fiber	15% 10%
	Homogeneous		Other Non-Fibrous Material	75%
	LAYER 2	None Detected	Fibrous Glass	15%
	Roof Felt, Black, Homogeneous		Other Non-Fibrous Material	85%
	LAYER 3 Tar, Black, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 4	None Detected	Cellulose Fiber	85%
	Insulation, Gray, Homogeneous		Other Non-Fibrous Material	15%
	Roofing Core			
10-1	LAYER 1	None Detected	Cellulose Fiber	15%
	Roof Shingle, White/ Black, Homogeneous		Synthetic Fiber Other Non-Fibrous Material	10% 75%
			Other Non-Fibrous Material	1370
	LAYER 2	None Detected	Fibrous Glass	15%
	Roof Felt, Black, Homogeneous		Other Non-Fibrous Material	85%
	LAYER 3 Tar, Black, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 4	None Detected	Cellulose Fiber	85%
	Insulation, Gray, Homogeneous		Other Non-Fibrous Material	15%
	Roofing Core			

Elizabeth Wilson

Analyst

Scott Ward, Ph.D. Lab Director

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#### **Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)** EPA 600/M4-82-020; 600/R-93/116

Alex Nguyen **EFI Global** 2000 Dairy Ashford, Ste 600

Houston TX 77077

J3 Order #: Project #: **Date Received:**  JH1782563 98410-21964

24-Jan-2017

Date Analyzed: 27-Jan-2017 Date Reported:

30-Jan-2017

#### 612 Branard Street Facility

Sample ID #	Sample Description	Asbestos Constituents	<b>3</b>	Non-Asbestos Constituents	
10-2	LAYER 1 Roof Shingle, White/ Black, Homogeneous	None Detected		Cellulose Fiber Synthetic Fiber Other Non-Fibrous Material	15% 10% 75%
	LAYER 2 Roof Felt, Black, Homogeneous	None Detected		Fibrous Glass Other Non-Fibrous Material	15% 85%
	LAYER 3 Tar, Black, Homogeneous	None Detected		Other Non-Fibrous Material	100%
	LAYER 4 Insulation, Gray, Homogeneous	None Detected		Cellulose Fiber Other Non-Fibrous Material	85% 15%
	Roofing Core				
11-1	LAYER 1 Texture, Off White, Homogeneous	Chrysotile	<1%	Other Non-Fibrous Material	100%
	LAYER 2 Wallboard, Brown/ White, Homogeneous	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
11-2	LAYER 1 Texture, Off White, Homogeneous	Chrysotile	<1%	Other Non-Fibrous Material	100%
	LAYER 2 Wallboard, Brown/ White, Homogeneous	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
11-3	LAYER 1 Texture, White, Homogeneous	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Paint/ Wall Paper, Yellow/ Green, Homogeneous	None Detected		Cellulose Fiber Other Non-Fibrous Material	15% 85%
	LAYER 3 Wallboard, Brown/ White, Homogeneous	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%

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Analyst

Scott Ward, Ph.D.

Lab Director

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## Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116

Alex Nguyen EFI Global 2000 Dairy Ashford, Ste 600 Houston TX 77077 J3 Order #: JH1782563
Project #: 98410-21964
Date Received: 24-Jan-2017
Date Analyzed: 27-Jan-2017
Date Reported: 30-Jan-2017

#### **612 Branard Street Facility**

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
2-3	Sheet Flooring, Beige, Homogeneous	None Detected	Cellulose Fiber Fibrous Glass	23% 2%
			Other Non-Fibrous Material	75%
6-4	Cove Base Mastic, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%
3-3	LAYER 1 Floor Tile, Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%
12-1	LAYER 1 Painted Texture, White, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Wallboard, Brown/ White, Homogeneous	None Detected	Cellulose Fiber Fibrous Glass	10% <1
			Other Non-Fibrous Material	90%
12-2	LAYER 1 Painted Texture, White, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Wallboard, Brown/ White, Homogeneous	None Detected	Cellulose Fiber Fibrous Glass	10% <1
	,,,		Other Non-Fibrous Material	90%
12-3	LAYER 1 Painted Texture, White, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Wallboard, Brown/ White, Homogeneous	None Detected	Cellulose Fiber Fibrous Glass	10% <1
			Other Non-Fibrous Material	90%

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# Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116

Alex Nguyen EFI Global 2000 Dairy Ashford, Ste 600 Houston TX 77077 J3 Order #: JH1782563
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Date Received: 24-Jan-2017
Date Analyzed: 27-Jan-2017
Date Reported: 30-Jan-2017

#### **612 Branard Street Facility**

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
6-5	Cove Base Mastic, Beige, Homogeneous	None Detected	Other Non-Fibrous Material	100%
13-1	Floor Tile, Gray, Homogeneous No Mastic Present	None Detected	Other Non-Fibrous Material	100%
13-2	LAYER 1 Floor Tile, Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Cream, Homogeneous	None Detected	Other Non-Fibrous Material	100%
13-3	LAYER 1 Floor Tile, Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Cream, Homogeneous	None Detected	Other Non-Fibrous Material	100%
14-1	LAYER 1 Painted Texture, White, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Wallboard, Brown/ White, Homogeneous	None Detected	Cellulose Fiber Other Non-Fibrous Material	10% 90%
14-2	LAYER 1 Painted Texture, White, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Wallboard, Brown/ White, Homogeneous	None Detected	Cellulose Fiber Other Non-Fibrous Material	10% 90%
14-3	LAYER 1 Painted Texture, White, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Wallboard, Brown/ White, Homogeneous	None Detected	Cellulose Fiber Other Non-Fibrous Material	10% 90%

Elizabeth Wilson

Analyst

Scott Ward, Ph.D. Lab Director

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#### **612 Branard Street Facility**

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
6-6	Cove Base Mastic, Beige, Homogeneous	None Detected	Other Non-Fibrous Material	100%
3-4	LAYER 1 Floor Tile, Mottled/ Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%
15-1	LAYER 1 Painted Texture, White, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2	None Detected	Cellulose Fiber	10%
	Wallboard, Brown/ White, Homogeneous		Fibrous Glass Other Non-Fibrous Material	<1 90%
15-2	LAYER 1 Painted Texture, White, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2	None Detected	Cellulose Fiber	10%
	Wallboard, Brown/ White, Homogeneous		Fibrous Glass Other Non-Fibrous Material	<1 90%
			Other Mon-Fibrous Material	90 %
15-3	LAYER 1 Painted Texture, White, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2	None Detected	Cellulose Fiber	10%
	Wallboard, Brown/ White, Homogeneous		Fibrous Glass	<1
			Other Non-Fibrous Material	90%
6-7	Cove Base Mastic, Beige, Homogeneous	None Detected	Other Non-Fibrous Material	100%

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Analyst

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### Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)

EPA 600/M4-82-020; 600/R-93/116

Alex Nguyen EFI Global 2000 Dairy Ashford, Ste 600 Houston TX 77077 J3 Order #: JH1782563
Project #: 98410-21964
Date Received: 24-Jan-2017
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#### **612 Branard Street Facility**

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
3-5	LAYER 1 Floor Tile, Mottled/ Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 3 Leveling Compound, Gray/ White, Homogeneous	None Detected	Other Non-Fibrous Material	100%
16-1	LAYER 1 Painted Texture, Gray/ White, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2	None Detected	Cellulose Fiber	10%
	Wallboard, Brown/ White, Homogeneous		Fibrous Glass Other Non-Fibrous Material	<1 90%
			Stroi Work Fibrodo Material	3070
16-2	LAYER 1 Painted Texture, Gray/ White, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2	None Detected	Cellulose Fiber	10%
	Wallboard, Brown/ White, Homogeneous		Fibrous Glass	<1
			Other Non-Fibrous Material	90%
16-3	LAYER 1 Painted Texture, Gray/ White, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2	None Detected	Cellulose Fiber	10%
	Wallboard, Brown/ White, Homogeneous		Fibrous Glass	<1
			Other Non-Fibrous Material	90%
17-1	Painted Plaster, White/ Beige, Homogeneous	None Detected	Other Non-Fibrous Material	100%

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## Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116

Alex Nguyen EFI Global 2000 Dairy Ashford, Ste 600 Houston TX 77077 

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**612 Branard Street Facility** 

Sample ID #	Sample Description	Asbestos Constituent	s	Non-Asbestos Constituents	
17-2	Painted Plaster, White/ Beige, Homogeneous	None Detected		Other Non-Fibrous Material	100%
17-3	Painted Plaster, White/ Beige, Homogeneous	None Detected		Other Non-Fibrous Material	100%
18-1	LAYER 1 Painted Texture, White, Homogeneous	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Wallboard, Brown/ Beige, Homogeneous	None Detected		Cellulose Fiber	10%
	waliboard, brown/ beige, nomogeneous			Other Non-Fibrous Material	90%
18-2	Painted Wallboard, Gray/ Brown/ White,	None Detected		Cellulose Fiber	10%
	Homogeneous			Other Non-Fibrous Material	90%
18-3	Painted Wallboard, White/ Brown/ White,	None Detected		Cellulose Fiber	10%
	Homogeneous			Other Non-Fibrous Material	90%
6-8	Cove Base Mastic, Yellow, Homogeneous	None Detected		Other Non-Fibrous Material	100%
 19-1	LAYER 1 Painted Texture, White/ Gray, Homogeneous	Chrysotile	2%	Other Non-Fibrous Material	98%
	LAYER 2	None Detected		Cellulose Fiber	10%
	Wallboard, Brown/ White, Homogeneous			Other Non-Fibrous Material	90%
19-2	LAYER 1 Painted Texture, White/ Gray, Homogeneous	Chrysotile	2%	Other Non-Fibrous Material	98%
	LAYER 2	None Detected		Cellulose Fiber	10%
	Wallboard, Brown/ White, Homogeneous			Other Non-Fibrous Material	90%

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**612 Branard Street Facility** 

Sample ID #	Sample Description	Asbestos Constituents	5	Non-Asbestos Constituents	
19-3	LAYER 1 Painted Texture, White/ Gray, Homogeneous	Chrysotile	2%	Other Non-Fibrous Material	98%
	LAYER 2 Wallboard, Brown/ White, Homogeneous	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
3-6	LAYER 1 Floor Tile, Gray, Homogeneous	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected		Other Non-Fibrous Material	100%
2-4	LAYER 1 Sheet Flooring, Beige, Homogeneous	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	23% 2% 75%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected		Other Non-Fibrous Material	100%
20-1	LAYER 1 Texture, Off White	Chrysotile	2%	Other Non-Fibrous Material	98%
	LAYER 2 Wallboard, Brown/ White, Homogeneous	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
20-2	LAYER 1 Texture, Off White	Chrysotile	2%	Other Non-Fibrous Material	98%
	LAYER 2 Wallboard, Brown/ White, Homogeneous	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%

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Alex Nguyen EFI Global 2000 Dairy Ashford, Ste 600 Houston TX 77077 J3 Order #:

JH1782563

Project #:
Date Received:

98410-21964 24-Jan-2017

Date Analyzed:

27-Jan-2017

Date Reported:

30-Jan-2017

#### **612 Branard Street Facility**

Sample ID#	Sample Description	Asbestos Constituents	5	Non-Asbestos Constituents	
20-3	LAYER 1 Texture, Off White	Chrysotile	2%	Other Non-Fibrous Material	98%
	LAYER 2 Wallboard, Brown/ White, Homogeneous	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
3-7	LAYER 1 Floor Tile, Gray, Homogeneous	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected		Other Non-Fibrous Material	100%
2-5	LAYER 1 Sheet Flooring, Beige, Homogeneous	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	23% 2% 75%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected		Other Non-Fibrous Material	100%
5-9	Cove Base Mastic, Yellow, Homogeneous	None Detected		Other Non-Fibrous Material	100%
21-1	LAYER 1 Painted Texture, White, Homogeneous	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Wallboard, Brown/ White, Homogeneous	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
21-2	LAYER 1 Painted Texture, White, Homogeneous	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Wallboard, Brown/ White, Homogeneous	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%

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#### **612 Branard Street Facility**

Sample ID#	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
21-3	LAYER 1 Painted Texture, White, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2	None Detected	Cellulose Fiber	10%
	Wallboard, Brown/ White, Homogeneous		Other Non-Fibrous Material	90%
6-10	Cove Base Mastic, Beige, Homogeneous	None Detected	Other Non-Fibrous Material	100%
3-8	LAYER 1 Floor Tile, Mottled/ Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Other Non-Fibrous Material	100%
22-1	LAYER 1 Painted Texture, White, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2 Wallboard, Brown/ White, Homogeneous	None Detected	Cellulose Fiber Fibrous Glass	10% <1
	vvalibodita, blownii vvinte, Homogeneous		Other Non-Fibrous Material	90%
22-2	LAYER 1 Painted Texture, White, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2	None Detected	Cellulose Fiber	10%
	Wallboard, Brown/ White, Homogeneous		Fibrous Glass Other Non-Fibrous Material	<1 90%
			Stron Hon I Israel Meterial	2370
22-3	LAYER 1 Painted Texture, White, Homogeneous	None Detected	Other Non-Fibrous Material	100%
	LAYER 2	None Detected	Cellulose Fiber	10%
	Wallboard, Brown/ Beige, Homogeneous		Other Non-Fibrous Material	90%

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Date Received:

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Date Reported:

30-Jan-2017

#### **612 Branard Street Facility**

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
6-11	Cove Base Mastic, Beige, Homogeneous	None Detected	Other Non-Fibrous Material	100%
3-9	Floor Tile, Mottled/ Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%

Elizabeth Wilson

Analyst

Scott Ward, Ph.D.

Lab Director

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NVLAP Lab Code: 200525-0

AIHA Lab ID: 157714

TDSHS License: 30-0273

Page 15 of 15

#### **CHAIN OF CUSTODY**



Your Name:	Cuong	Nguyen			Bill to	):	EFI Glob	al, Inc.		
Company:	EFI Glo	obal, Inc.			Addre	ess:	_11000 Ri	chmond	Ave. – Suite	250
Address:	11000	Richmond Ave	e. – St. 250							
-					City/S	State:	Houston,	Texas	Zip: _7	7042
City/State:	Housto	n, Texas	Zip	77042	PO #:		98410-21	1964		
	5 70 3			Project Inform	nation					
Project #/Nam	-	2 Branard Stre			E-Ma	iil: _C	uong_Ngı	ıyen@ef	iglobal.com	
Results To:		iong Nguyen & ellington Joe	KICK Ande	rson &	Tel:	28	31-743-367	73		
Report Option	s: Ve	rbal ❖ E-M		x O USPS O	Fax:		ick_Anders	son@efig	lobal.com	el.
		T	Red	uested Turnar	ound 1	Time			0	-ac
Emergency	r* 🗆	1 Day	<i>'</i> □	2 Day	]		3 Day	Ke.	5 Da	y 🚾
			N	ledia and Meth	odolog	у		<u>\</u>		
TEM - AIR	TE	M – BULK	Р	LM - BULK		MOLE	- AIR		LEAD - f	-ΔΔ
O AHERA O NIOSH 7402 O Level II	0 0	Qualitative + / - NOB 198.4 / Ch Gravimetric Red	atfield Coduction C	<ul> <li>EPA 600/R-93/11</li> <li>Point Count (400)</li> <li>NOB 198.6</li> <li>Gravimetric Reduce</li> </ul>		O Spo (Air	re Traps: No -O-Cell / All ure Plates:	ergenco)	O Paint ( O Dust/V O Air (NI	EPA 7420)
TEM - WATER	TEI	M - DUST (AST	<u>rm 5755)</u> P	CM - AIR		MOLD	- BULK		LEAD - (	GFAA
O Drinking Wate 100.2 / 198.2 O Wastewater		Micro-Vac Quar Micro-Vac Qual	ntitative C	NIOSH 7400 OSHA: TWA		О Тар	e Lift/Bulk: I ure Plates: I			(EPA 7421)
				Sample Inform						
SAMPL	E NUMI	BER		MATERIAL D	ESCRI	PTION			LOCAT	ION
×1	~ J		<b>ENB</b>	W PANT / TEX	EARS !	JOIN	Company	D 6	log 1- 1	wi76
×	-2									
× 1	-3			V					V	
×	2-1		Sounas	PATON SH-	, de	. 4	LE MAS	tu	1	
×	3-1		GREY	BRAIN CORAL	12'x12	FTL	w) yet he	AST		
×.	4-1			valley [w rac					V	
Total Numbe	r of Sa	amples Sub		77			Positiv	e Stop	: YES	(NO)
				Signatures	5					
Relinquished	Ву:	2	My Cur				Date:	1. 24	/-/7 Time:	2:541
Received By:	_		U (	<b></b>			Date:		Time:	
Relinquished	Ву:						Date:		Time:	,
Received By:							Date:		Time:	

<sup>\*</sup> Emergency TAT requires prior lab notification. All samples analyzed outside normal business hours are charged at Emergency rate.

#### **SAMPLE IDENTIFICATION**



Project Name/Number	98410-21964	Page	of	
		i age	<u> </u>	

SAMPLE NUMBER	MATERIAL DESCRIPTION	LOCATION
× 5-1	GUB W/ PANT/ TESTAS + JOINT COMPOND	BLDG. 1- UNIT 7
X 1-2		
X V-3	V	
× 3.2	Gray Brain coal 12"x12" FT I w/ yel maste	
× 6-1	CONF BOST NAMELY	
→ 1 -2 → 1 -3		
	· · · · · · · · · · · · · · · · · · ·	
×2-2	Yellow Source PATTORN SHT. Pla W/ BLACK	
47-1	Blk sink undurchating	V
×8-1	Grey Duct MASTIL	ROOF
X -2		V
X 1-3	V	8106.2 V
×4-2	Gray Float w/ yel. MASTE	Blog. 1 - UNIT 7
×9-1	ROOF FIELD CORE	VI-ROF
× 1-2	V FIASHING	1 - ROOF
y <sub>10-1</sub>	ROOF FIELD CORE	Blog. 2 - Roof
×V-2	Flashing	- ROOP
×11-1	GWB W/ PANT (TEXT. & joint Compand)	Blog 1 - UNIT 8
× -z		
× V-3	V Mal	V V
× 2.3	Yellow Square PATTEN SHT. Ple W MASTE	1 - UNIT B
× 6-4	CONE BASE MASTIC	11- 18
3.3	GREY BRAIN COPAL 12"x12" FTL W/ MASTE	11-18
12-1	GUB W PAINT/ TOUT, & JOINT COMPOND	11 - UNIT 1
× -2		- 1
44 4.5	•	11-11
×6-5	COUF BASE MASTIC	10-41
× 13-1	RECTANCE WHOD PATTERN PATTERN VIN FTL	,
K   -2		
77-3	V	11-11

#### **SAMPLE IDENTIFICATION**



Project Name/Number	98410-21964	Page 3 of
•		

SAMPLE NUMBER	MATERIAL DESCRIPTION	LOCATION
W/4-1	CUB M PANN / REST. & Joint Company	Block - 1 - UNIT 2
×1-2		
XV-3	<b>Y</b>	
×6-6	CONE BASE MASSIC	
× 3-4	Grey BRAIN CORAL 12"x12" FTL W/ YEL MANNY	
W15-1	GWB W) PANA TOA & Jama Company	- UNIT 3
X   -2		
X -2 X -3	<b>V</b>	
×6-7	COUSE BASE MASTIC	\ \ \ \ \
×3-5	Grey Brain Goal 12"x12" Fil W/yel MASTIC	4 1
× 16-1	GWO W PANNT / TEXT . + Joint Compano	Bloc. 5 - LAWDRY !
× 1 · 7 × 1 · 7	a desired to a	
W17-1	Column Plaszin	Bloc. 3 Below UNIT 4
2 -2		11
713		1 11
18-1	Gitts w/ Paint TET 1 Juin Congres	Blogy - Gyn/Str
X1-2		
WV-3	V	
× 6.8	COVEBASE MASTIC	Blab. Z - UNITIO
* 19-1	GWB W/ PAINT/TEXT & JOINT COMPONO	
-2		
V -3	<b>✓</b>	<b>Y Y</b>
×3-6	Grey BRAN CORAL 12"X12" FTL W YEL. MASIC	
2.4	SISTER PATTERN SHEET FLORING of Olk MASTIL	LV
¥ 20-1	GWB W/ PANT/ TELT. 4 TOINT COMPAND	UN17.9
× 1-2		
W3-7	Grey BRAW CORN 12"x12" FEL W YEL. MAIR.	
×2.5	SQUARE PATITION SHEET FLORING W/ YEL MATER	V V

#### **SAMPLE IDENTIFICATION**



Duning A Manag/Normalian	00440 04004	Dane		
Project Name/Number	98410-21964_	Page	10	

SAMPLE NUMBER	MATERIAL DESCRIPTION	LOCATION	
	COLE BASE MASTIC	Blog 2 - UNIT 9	
×21-1	GOB W PANT/ TEXT & Joint Compans	· UNIT 4	
-2			
- 3	<b>V</b>		
×6-10	Couchast Mastic		
<sup>*</sup> 3-8	Gray BRAIN COUNT - 12"x12" PH W/ yel-AM	¥ ¥	
× 22-1	Gray Beam Count -12"x12" PA Wyd-nar. GwB w/ PANT/TOLT	UNIT	
-2			
<b>V</b> 3	•		
	COUF BASE MASTIC		
× 3-q	Grey BRAIN CORA - 12"x12" Fot Wyd. MASK	U V	
		Cal.	



# APPENDIX B POINT COUNTING LABORATORY RESULTS

6110 W. 34th Street, Houston, Texas 77092 Phone: (713) 290-0221 - Fax: (713) 290-0248 *J3Resources.com* 



# Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Wellington Joe EFI Global 2000 Dairy Ashford, Ste 600 Houston TX 77077 J3 Order #: JH1782785
Project #: 98410-21964
Date Received: 30-Jan-2017
Date Analyzed: 01-Feb-2017
Date Reported: 01-Feb-2017

#### PC-JH1782563-612 Branard Street Facility

Sample ID #	Sample Description	Asbestos Constituents		Non-Asbestos Constituents	
5-1 LAYER 1	Texture, Beige, Homogeneous	Chrysotile	3.50%	Other Non-Fibrous Material	96.50%
400 Pt. POINT COUNT					
5-1 LAYER 3	Joint Compound, *Not analyzed per client request				
400 Pt. POINT COUNT	Oliona roquidos				
19-1 LAYER 1	Painted Texture, White, Homogeneous	Chrysotile	2.00%	Other Non-Fibrous Material	98.00%
400 Pt. POINT COUNT					
19-2 LAYER 1	Painted Texture, White/ Gray, Homogeneous	Chrysotile	1.75%	Other Non-Fibrous Material	98.25%
400 Pt. POINT COUNT	. To mogo no odo				
19-3 LAYER 1	Painted Texture, White/ Gray, Homogeneous	Chrysotile	2.00%	Other Non-Fibrous Material	98.00%
400 Pt. POINT COUNT					
20-1 LAYER 1	Texture, Off White, Homogeneous	Chrysotile	1.50%	Other Non-Fibrous Material	98.50%
400 Pt. POINT COUNT					
20-2 LAYER 1	Texture, Off White, Homogeneous	Chrysotile	1.75%	Other Non-Fibrous Material	98.25%
400 Pt. POINT COUNT					
20-3 LAYER 1	Texture, Off White, Homogeneous	Chrysotile	1.50%	Other Non-Fibrous Material	98.50%
400 Pt. POINT COUNT					

**Duane Salinas** 

Analyst

Scott Ward, Ph.D. Lab Directo

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NVLAP Lab Code: 200525-0

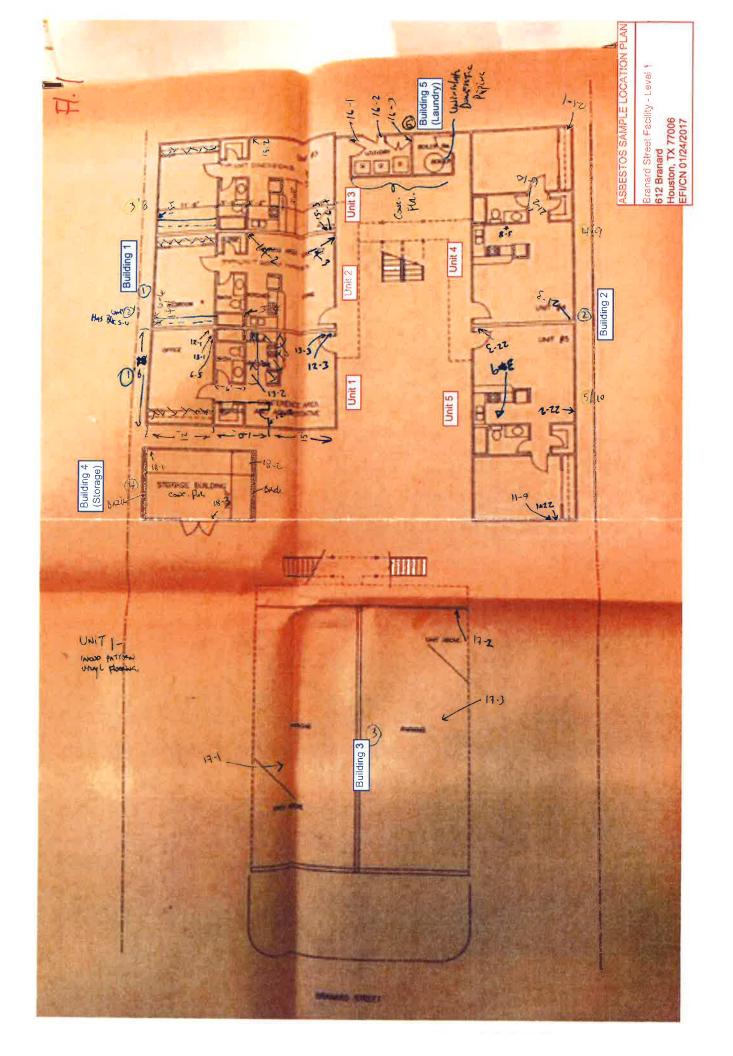
AIHA Lab ID: 157714

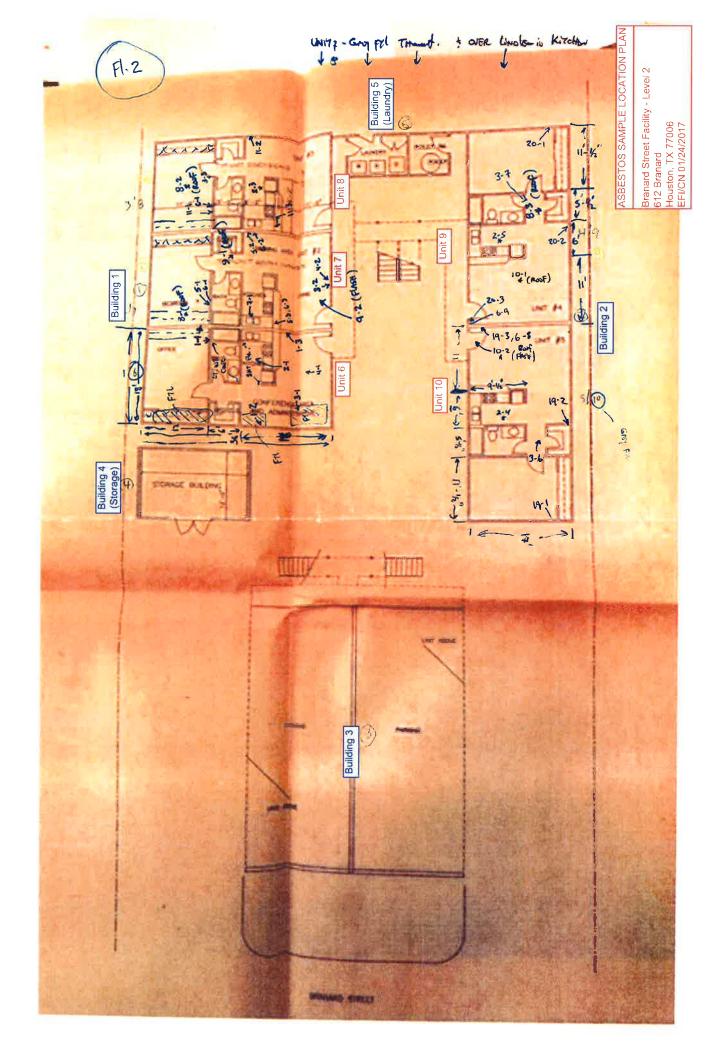
TDSHS License: 30-0273

Page 1 of 1



# APPENDIX C SAMPLE LOCATION FLOOR PLANS







# APPENDIX D LICENSES AND CERTIFICATES



**Asbestos Individual Consultant** 

CUONG NGUYEN License No. 105516 Control No. 96898

Expiration Date: 10/30/2017





# Texas Department of State Health Services

Asbestos Inspector

KENNETH & CAPPS License No. 603025 Control No. 98181

Expiration Date: 2/7/2018





# TEXAS DEPARTMENT OF STATE HEALTH SERVICES

# EFI GLOBAL INC

is certified to perform as a

# **Asbestos Consultant Agency**

in the State of Texas within the purview of Texas Occupations Code, chapter 1954, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

Je Ver

JOHN HELLERSTEDT, M.D. COMMISSIONER OF HEALTH

License Number: 100409

Control Number: 96890

(Void After Expiration Date)

Expiration Date: 4/26/2018

VOID IF ALTERED NON-TRANSFERABLE



# TEXAS DEPARTMENT OF STATE HEALTH SERVICES

# J3 RESOURCES INC

is certified to perform as a

# Asbestos Laboratory PCM, PLM, TEM

in the State of Texas within the purview of Texas Occupations Code, chapter 1954, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

John We

JOHN HELLERSTEDT, M.D. COMMISSIONER OF HEALTH

License Number: 300273

Control Number: 96105

(Void After Expiration Date)

Expiration Date: 3/15/2018

VOID IF ALTERED NON-TRANSFERABLE