



26 March 2013

Brenda Press
Permitting Technician II
Lake County DPW, Road Ops Division
437 Ardice Avenue
Eustis, Florida 32726

Phone: +1 (352) 483-9020
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Email: bpress@lakecountyfl.gov

**Subject: Report of Pre-Demolition NESHAP Asbestos Survey
804 West Miller Avenue (Single Family Home)
Fruitland Park, Florida 34731
Alternate Key # 3541138
Parcel ID # 04-19-180500000500
P.O. No. 20130833
AMEC Project 6380-12-0955.17**

Dear Ms. Press,

AMEC Environment & Infrastructure, Inc. (AMEC) has completed the Pre-Demolition NESHAP Asbestos Survey within the above referenced facility. The field survey was performed by Mr. Carver Gittens, an AHERA Accredited Inspector from AMEC, on 27 February 2013, in accordance with our Proposal 13PROP0010.0000.0043, dated 25 January 2013.

The attached report gives a brief background of the project, the procedures used in the field and in laboratory analysis. A summary of the laboratory analyses is included as an attachment.

AMEC appreciates the opportunity to have been of assistance to you on this project and is looking forward to working with you as your consultant in the future. If you have any questions concerning this report or if we can be of further service, please contact us.

Respectfully,

AMEC Environment & Infrastructure, Inc.
Asbestos Business License No. ZA-0000449

for Ronald C. Trapani, CIEC with permission
Senior Project Scientist

Russell E. Stauffer, P.E.
FL Asbestos Consultant
License No. EA0000016

Dennis Kenney, P.G., C.P.G.
Orlando Office Manager

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Correspondence:
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Orlando, Florida 32801 USA
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1.0 PROJECT INFORMATION

Information concerning this project was obtained in an email from Ms. Brenda Press with Lake County Department of Public Works, Road Ops Division. Additional information was obtained from the Lake County Property Appraiser's (LCPA's) website.

According to information provided by Ms. Press, there are plans to demolish the subject building in the near future. According to LCPA information, there is a single family home, constructed in 1984, located at the subject address. The vacant single family home contains a total of 1,110 square feet (s.f.) of gross area consisting of two bedrooms, one bathroom, and a fireplace. The asbestos survey included bulk sampling of suspect interior and exterior building materials, including roofing products, concrete slabs, and the fireplace. The structure is scheduled for demolition. No previous asbestos surveys have reportedly been conducted at the site.

The objective of AMEC's survey was to identify accessible asbestos-containing materials which may be impacted by the planned demolition of the structures.

2.0 SURVEY PROCEDURES

2.1 General

The survey was performed by observing accessible exposed building materials and included bulk sampling of suspect interior and exterior building materials, prior to the planned demolition of the structure. We must emphasize that it is not possible to look within every location of a building. The visual survey documents only general locations of suspect materials but does not determine exact boundaries.

No attempt was made to disassemble equipment or demolish structural elements and finishes as this is beyond the scope of our authorized services. Visual observations were made at convenient locations (for example) for the presence of resilient floor coverings below existing floor finishes, etc. Due to these limitations, wall voids, building cavities and mechanical equipment, and other areas may contain unreported asbestos-containing materials.

2.2 Bulk Sampling

The bulk sampling procedures utilized for the collection of suspect materials first required the establishment of a homogeneous sampling area. A homogeneous sampling area is defined as an area of the same type and applied during the same general time period. The individual sampling areas were then examined and representative samples of the suspect materials were obtained. Bulk samples collected during the survey were delivered to EMSL Analytical, Inc., of Orlando, Florida, an NVLAP accredited laboratory (No. 10115-0). The bulk samples were analyzed by Polarized Light microscopy (PLM) coupled with dispersion staining in accordance with EPA Method 600/R-93/116.

Polarized Light Microscopy (PLM) is an analytical method for asbestos identification which depends on the unique optical properties of mineral forms in the samples, and specifically identifies the various asbestos types. This is the referenced method of analysis by EPA for asbestos identification in bulk samples. Materials found to contain greater than one percent asbestos by PLM are Asbestos-Containing Materials (ACM) as defined by EPA, OSHA and the State of Florida.

The EPA National Standard for Hazardous Air Pollutants (NESHAP) Final Rule (40 CFR 61, Subpart M) for asbestos includes an option for verification of friable materials, by point counting, if it is initially determined by PLM analysis that asbestos is present in amounts less than 10 percent. Point counts were not conducted as part of this survey.

The following suspect materials (thought to possibly contain asbestos) were sampled during the survey. Materials containing asbestos are in **bold**:

1. Roofing shingles
2. Roofing felt (under shingles)
3. Black mastic sink undercoat (kitchen)
4. Attic insulation
5. Stucco/stone (decorative exterior base)
6. 12" x 12" beige and peach semi-smooth ceramic floor tiles/grout/thin set (over a middle layer of **sheet vinyl flooring [SVF]** with adhesive, bottom layer of vinyl floor tiles [VFT] with mastic, & felt over a wooden floor) in the kitchen & front entry
7. 12" x 12" beige and peach semi-smooth ceramic floor tiles/grout/thin set (over a bottom layer SVF and adhesive) in the bathroom
8. 4" x 8" red/brown ceramic tile/grout/thin set/mastic (kitchen backsplash)
9. Wallpaper and adhesive (kitchen)

10. Lightly textured drywall/joint compound ceilings
11. Felt on lower half of south wall (between interior and exterior perimeter wooden wall)
12. **Red brick pattern SVF** (bottom layer of VFT, adhesive, and felt) in dining room
13. Beige "Terrazzo" style SVF, mastic, and felt (living room)
14. Drywall/joint compound with knockdown texture (bathroom walls and ceilings)
15. Mechanically fastened 1' x 1' white compressed cellulose tile (closets and storage rooms)
16. Yellow mastic (shower stall)
17. White caulk (exterior seams of siding, doors and windows)
18. Concrete slabs (driveway and walkway, house has wood deck and not a concrete slab)

3.0 BULK SAMPLE RESULTS

Based upon our visual observations, bulk sampling of 18 suspect materials (40 samples, 97 layers) and subsequent PLM microscopic analysis, the following materials were determined to contain asbestos:

Sample No.	Material Sampled	Sample Location	Percent/ Type Asbestos	Condition	Estimated Quantity
B-6A & B-6B	Sheet vinyl flooring (SVF) under ceramic floor tiles	Kitchen & front entry	*20% Chrysotile – SVF None Detected - ND (adhesive) ND - Ceramic tile, thin set, grout ND – VFT, mastic, felt	Fair	120 S.F. each layer
B12A & B-12B	Red brick pattern SVF over VFT, mastic, & felt	Dining room	*25% Chrysotile – SVF ND – VFT, mastic, felt	Fair	120 S.F. each layer

Prepared By: RCT

Checked By: RCT

**Composite Results – vinyl & backing layers of sheet vinyl flooring (SVF).*

4.0 ASBESTOS CONCLUSIONS

The following materials were found to contain asbestos:

4.1 Sheet Vinyl Flooring (SVF)

Two styles of sheet vinyl flooring (SVF) were identified at the house. The first style of SVF (Samples B-6A and B-6B) was identified below a layer of ceramic floor tile/thin set/grout in the kitchen and front entry and was found to contain **20% Chrysotile asbestos**. Since the vinyl and backing layers of the SVF were not separated, the laboratory results were reported as a composite sample. Approximately 120 square feet of the ACM SVF was generally observed to be in fair condition with a moderate potential for damage. The adhesive associated with the ACM SVF, as well as the top layer of ceramic tile/thin set/grout and the bottom layers of VFT, mastic,

and felt were all None Detected for asbestos, according to PLM. However, the non-ACM layers of ceramic tile, VFT, mastic, and felt, etc. should be considered asbestos-contaminated materials because of the intermingled layer of ACM SVF.

The second style of ACM SVF identified at the house was a top layer of red brick pattern SVF (Samples B-12A and B-12B) identified over layers of VFT, mastic, and felt in the dining room. This SVF was found to contain **25% Chrysotile asbestos**. Since the vinyl and backing layers of the SVF were not separated, the laboratory results were reported as a composite sample. Approximately 120 square feet of the ACM SVF was generally observed to be in fair condition with a moderate potential for damage. The adhesive associated with the ACM SVF, as well as the bottom layers of VFT, mastic, and felt were all None Detected for asbestos, according to PLM. However, the non-ACM layers of VFT, mastic, and felt should be considered asbestos-contaminated materials because of the top layer of ACM SVF.

5.0 ASBESTOS RECOMMENDATIONS

5.1 General Recommendations

There are four recognized alternative courses of action to control asbestos-containing materials in buildings: (1) asbestos removal and disposal; (2) enclosure; (3) encapsulation; and, (4) special operations, maintenance and re-observation programs. The selection of a particular alternative should be based upon intended usage of the building, actual exposure rates and cost.

Regarding Item No. 1, the EPA has Federal regulations regarding asbestos. The National Emissions Standard for Hazardous Air Pollutants (NESHAP) Final Rule Revision (EPA 40 CFR Part 61) dated November 20, 1990 includes several requirements for building Owners and Contractors. The requirement that greatly affects abatement alternatives is the categorization of asbestos-containing materials (ACM). These are categorized as follows:

- **Friable** means any material that can be reduced to powder by hand pressure when dry.
- **Category I Non-Friable ACM** means packing, gaskets, resilient floor coverings and roofing products that contain more than one- percent asbestos.
- **Category II Non-Friable ACM** means any material, excluding Category I Non-Friable ACM that contains more than one- percent asbestos, and is not friable.

- **Regulated ACM (RACM)** includes all friable ACM; Category I Non-Friable ACM that will be or has been subject to sanding, grinding, cutting or abrading; Category I Non-Friable ACM that has become friable; and Category II Non-Friable ACM that has a high probability of becoming, or has become crumbled, pulverized, or reduced to a powder by forces expected to act on the material in the course of demolition or renovation operations.

5.2 Specific Asbestos Recommendations

5.2.1 Two Styles of Sheet Vinyl Flooring

The EPA NESHAP (40 CFR Part 61, Subpart M) classifies SVF as Category I, non-friable ACM. However, the backing layers of the two styles of SVF have a high probability of becoming friable during demolition activities and are therefore considered Regulated ACM (RACM). Removal is required by NESHAP prior to any activities that have a high probability of rendering ACM friable during demolition activities. The OSHA Construction Standard (29 CFR 1926.1101) classifies disturbance, removal, or demolition of structures with this material as Class II asbestos work, which requires specialized training, engineering controls, etc.

It is also recommended that the non-ACM layers of ceramic tile/thin set/grout, VFT, mastic, and felt, etc. should be considered asbestos-contaminated materials because of the intermingled layers of ACM SVF and should also be removed as ACM.

We recommend that the approximate 240 square feet of two styles of ACM sheet vinyl flooring (kitchen, front entry, and dining room), as well as all associated layers of ceramic tile/thin set/grout, VFT, mastic, and felt be removed by a Florida Licensed Asbestos Contractor for proper disposal.

5.3 State Of Florida Asbestos Regulations

Chapter 469 of the Florida Statutes generally requires that a state licensed asbestos abatement contractor perform the removal, repair, or encapsulation of the types of ACM and materials identified as containing asbestos in this report. Since the structure will be demolished, ten working day written notification is required prior to the start of demolition activities under the EPA NESHAP regulation (40 CFR 61, Subpart M) and Florida Department of Environmental Protection (FDEP) rules. Since the project is located in **Lake County**, the notification, using FDEP form 62-257.900(1), must be made to FDEP's Central District Office at 3319 Maguire Boulevard, Suite 232, Orlando, FL 32803-3767 (telephone 407-894-7555, Fax 407-897-2966).

5.4 Interim Measures

Regardless of the type of asbestos abatement action chosen, and the time frame involved, we strongly recommend that during the interim time period prior to abatement action, control measures be established for the employees and occupants working in the building to minimize their exposure to asbestos.

This program should include, at a minimum, proper safety precautions and cleaning methods by personnel when work must be performed in and around asbestos-containing materials. Also, periodic reassessment of the condition of the asbestos-containing materials should be undertaken and precautions and procedures should be in writing and be thoroughly documented.

5.5 Legal and Medical Considerations

Due to the health hazards and legal ramifications involved in asbestos exposure in public buildings, an interdisciplinary approach between the engineering, medical and legal communities should be involved when determining an asbestos control program. There is presently a tremendous amount of litigation in the courts concerning present and past asbestos exposure in public and private facilities, as well as in the workplace environment.

One basis for much of the litigation stems from the lack of adequate notification by the building owner to building occupants/employees following the identification of asbestos in buildings. As a minimum, building owners should notify building employees, occupants, vendors, and others as required in the OSHA Asbestos Standards (29 CFR 1910.1001 and 29 CFR 1926.1101), and for public facilities, the EPA Worker Protection Rule (40CFR 763, Subpart G). We recommend that you involve appropriate legal counsel in your asbestos control program to address these very important issues.

6.0 LIMITATIONS

AMEC has performed its services in accordance with generally accepted practices at the time of the field work. This report has been prepared on behalf of and exclusively for the use by **Lake County Department of Public Works**. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party without AMEC's prior written consent. The findings are relative to the date of our site visit and should not be relied upon for substantially later dates. All material quantities are estimated based on visual observation and should be relied on for contractor bidding or regulatory notification purposes.

Please note that these test results relate only to those homogeneous materials tested. If conditions, or materials, other than those addressed in this report are encountered during the planned maintenance, renovation, or demolition activities, AMEC should be contacted to assess the potential impact of these materials or conditions relative to the findings or recommendations included herein.

APPENDIX A
LABORATORY ANALYSIS



EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone/Fax: (407) 599-5887 / (407) 599-9063

<http://www.emsl.com>

orlandolab@emsl.com

EMSL Order:	341301659
CustomerID:	LAWE52H
CustomerPO:	C012301109
ProjectID:	

Attn: Ron Trapane AMEC E&I, Inc. 75 E. Amelia Street Suite 200 Orlando, FL 32801 Project: 6380-12-0955.17, 804 W. Miller Ave	Phone: (407) 522-7570 Fax: Received: 03/01/13 5:30 PM Analysis Date: 3/5/2013 Collected: 2/27/2013
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PCS 3/6/13

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-1A 341301659-0001	North Sect - Roofing Shingle	Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (other)	None Detected
B-1B 341301659-0002	South Sect - Roofing Shingle	Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (other)	None Detected
B-2A 341301659-0003	North Sect - Roofing Felt	Black Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
B-2B 341301659-0004	South Sect - Roofing Felt	Black Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
B-3A 341301659-0005	Sink Under Coat - Black Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-4A 341301659-0006	Bed 2 - Insulation	Brown Fibrous Heterogeneous	98% Cellulose	2% Non-fibrous (other)	None Detected
B-4B 341301659-0007	Bed 1 - Insulation	Brown Fibrous Heterogeneous	98% Cellulose	2% Non-fibrous (other)	None Detected
B-4C 341301659-0008	Bath - Insulation	Brown Fibrous Heterogeneous	98% Cellulose	2% Non-fibrous (other)	None Detected
B-5A-Skim Coat 341301659-0009	West Wall - Stucco/Stone	White Non-Fibrous Heterogeneous		20% Quartz 20% Ca Carbonate 60% Non-fibrous (other)	None Detected

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 Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

Initial report from 03/05/2013 15:14:11



EMSL Analytical, Inc.

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 Fax:
 Received: 03/01/13 5:30 PM
 Analysis Date: 3/5/2013
 Collected: 2/27/2013

Project: 6380-12-0955.17, 804 W. Miller Ave

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-5A-Base Coat 341301659-0009A	West Wall - Stucco/Stone	Gray Non-Fibrous Heterogeneous		40% Quartz 10% Ca Carbonate 50% Non-fibrous (other)	None Detected
B-5B-Skim Coat 341301659-0010	South Wall - Stucco/Stone	White Non-Fibrous Heterogeneous		20% Quartz 20% Ca Carbonate 60% Non-fibrous (other)	None Detected
B-5B-Base Coat 341301659-0010A	South Wall - Stucco/Stone	Gray Non-Fibrous Heterogeneous		40% Quartz 10% Ca Carbonate 50% Non-fibrous (other)	None Detected
B-5C-Skim Coat 341301659-0011	East Wall - Stucco/Stone	White Non-Fibrous Heterogeneous		20% Quartz 20% Ca Carbonate 60% Non-fibrous (other)	None Detected
B-5C-Base Coat 341301659-0011A	East Wall - Stucco/Stone	Gray Non-Fibrous Heterogeneous		40% Quartz 10% Ca Carbonate 50% Non-fibrous (other)	None Detected
B-6A-Ceramic Tile 341301659-0012	Floor - Beige & Peach Semi- Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F W/Adhesive & V.C.T	Beige/Peach Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-6A-Grout 341301659-0012A	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F W/Adhesive & V.C.T	Gray Non-Fibrous Heterogeneous		20% Quartz 80% Non-fibrous (other)	None Detected
B-6A-Thinset 341301659-0012B	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F W/Adhesive & V.C.T	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-6A-Sheet Vinyl Flooring 341301659-0012C	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F W/Adhesive & V.C.T	Brown Fibrous Heterogeneous	10% Cellulose	70% Non-fibrous (other)	20% Chrysotile
This is a composite result of both vinyl and backing layer					
B-6A-Adhesive 341301659-0012D	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F W/Adhesive & V.C.T	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-6A-Floor Tile 341301659-0012E	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F W/Adhesive & V.C.T	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-6A-Mastic 341301659-0012F	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F W/Adhesive & V.C.T	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-6A-Felt 341301659-0012G	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F W/Adhesive & V.C.T	Black Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
B-6A-Wood Layer 341301659-0012H	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F W/Adhesive & V.C.T	Brown Fibrous Homogeneous	100% Cellulose	0% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-6B-Ceramic Tile 341301659-0013	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F W/Adhesive & V.C.T	Beige/Peach Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-6B-Grout 341301659-0013A	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F W/Adhesive & V.C.T	Gray Non-Fibrous Heterogeneous		20% Quartz 80% Non-fibrous (other)	None Detected
B-6B-Thinset 341301659-0013B	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F W/Adhesive & V.C.T	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-6B-Sheet Vinyl Flooring 341301659-0013C	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F W/Adhesive & V.C.T	Brown/Red Fibrous Heterogeneous	10% Cellulose	70% Non-fibrous (other)	20% Chrysotile

This is a composite result of both vinyl and backing layer

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

Initial report from 03/05/2013 15:14:11



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EMSL Order:	341301659
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Received: 03/01/13 5:30 PM
Analysis Date: 3/5/2013
Collected: 2/27/2013

Project: 6380-12-0955.17, 804 W. Miller Ave

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-6B-Floor Tile 341301659-0013D	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F W/Adhesive & V.C.T	Green Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Further TEM analysis recommended.					
B-6B-Mastic 341301659-0013E	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F W/Adhesive & V.C.T	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-6B-Felt 341301659-0013F	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F W/Adhesive & V.C.T	Black Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
B-7A-Ceramic Tile 341301659-0014	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F	Beige/Peach Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-7A-Grout 341301659-0014A	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F	Gray Non-Fibrous Heterogeneous		20% Quartz 80% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-7A-Thinset 341301659-0014B	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-7A-Sheet Vinyl Flooring 341301659-0014C	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-7A-Adhesive 341301659-0014D	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F	Clear Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-7B-Ceramic Tile 341301659-0015	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F	Beige/Peach Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-7B-Grout 341301659-0015A	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F	Gray Non-Fibrous Heterogeneous		20% Quartz 80% Non-fibrous (other)	None Detected
B-7B-Thinset 341301659-0015B	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-7B-Sheet Vinyl Flooring 341301659-0015C	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-7B-Adhesive 341301659-0015D	Floor - Beige & Peach Semi-Smooth 12"x12" Ceramic Floor Tile, Grout & Thinset Over S.V.F	Clear Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-8A-Ceramic Tile 341301659-0016	East Wall - Red/Brown 4"x8" Tile, Grout & Thinset/Mastic	Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-8A-Grout 341301659-0016A	East Wall - Red/Brown 4"x8" Tile, Grout & Thinset/Mastic	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-8A-Thinset 341301659-0016B	East Wall - Red/Brown 4"x8" Tile, Grout & Thinset/Mastic	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-8A-Mastic 341301659-0016C	East Wall - Red/Brown 4"x8" Tile, Grout & Thinset/Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-8B-Ceramic Tile 341301659-0017	North Wall - Red/Brown 4"x8" Tile, Grout & Thinset/Mastic	Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Project: 6380-12-0955.17, 804 W. Miller Ave

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-8B-Grout 341301659-0017A	North Wall - Red/Brown 4"x8" Tile, Grout & Thinset/Mastic	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-8B-Thinset 341301659-0017B	North Wall - Red/Brown 4"x8" Tile, Grout & Thinset/Mastic	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-8B-Mastic 341301659-0017C	North Wall - Red/Brown 4"x8" Tile, Grout & Thinset/Mastic	Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-9A-Wallpaper 341301659-0018	East Wall - Decorative Wall Paper & Adhesive	White Non-Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
B-9A-Adhesive 341301659-0018A	East Wall - Decorative Wall Paper & Adhesive	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-9A-Wood Layer 341301659-0018B	East Wall - Decorative Wall Paper & Adhesive	Brown Fibrous Homogeneous	100% Cellulose	0% Non-fibrous (other)	None Detected
B-9B-Wallpaper 341301659-0019	North Wall - Decorative Wall Paper & Adhesive	White Non-Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
B-9B-Adhesive 341301659-0019A	North Wall - Decorative Wall Paper & Adhesive	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Project: 6380-12-0955.17, 804 W. Miller Ave

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-9B-Wood Layer 341301659-0019B	North Wall - Decorative Wall Paper & Adhesive	Brown Fibrous Homogeneous	100% Cellulose	0% Non-fibrous (other)	None Detected
B-10A-Drywall 341301659-0020	Ceiling - Drywall & Joint Compound W/LT Ceiling Texture	Brown/White Fibrous Heterogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (other)	None Detected
B-10A-Joint Compound 341301659-0020A	Ceiling - Drywall & Joint Compound W/LT Ceiling Texture	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
B-10A-Texture 341301659-0020B	Ceiling - Drywall & Joint Compound W/LT Ceiling Texture	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
B-10B-Drywall 341301659-0021	Ceiling - Drywall & Joint Compound W/LT Ceiling Texture	Brown/White Fibrous Heterogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (other)	None Detected
B-10B-Joint Compound 341301659-0021A	Ceiling - Drywall & Joint Compound W/LT Ceiling Texture	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
B-10B-Texture 341301659-0021B	Ceiling - Drywall & Joint Compound W/LT Ceiling Texture	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
B-10C-Drywall 341301659-0022	Ceiling - Drywall & Joint Compound W/LT Ceiling Texture	Brown/White Fibrous Heterogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-10C-Joint Compound 341301659-0022A	Ceiling - Drywall & Joint Compound W/LT Ceiling Texture	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
B-10C-Texture 341301659-0022B	Ceiling - Drywall & Joint Compound W/LT Ceiling Texture	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
B-11A 341301659-0023	South Wall - Felt	Black Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
B-11B 341301659-0024	South Wall - Felt	Black Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
B-11C 341301659-0025	West Wall - Felt	Black Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
B-12A-Flooring 341301659-0026	Floor - Red Brick Pattern Sheet Vinyl Flooring W/Adhesive	White Fibrous Heterogeneous	40% Cellulose	35% Non-fibrous (other)	25% Chrysotile
This is a composite result of both vinyl and backing layer					
B-12A-Floor Tile 341301659-0026A	Floor - Red Brick Pattern Sheet Vinyl Flooring W/Adhesive	Green Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-12A-Mastic 341301659-0026B	Floor - Red Brick Pattern Sheet Vinyl Flooring W/Adhesive	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-12A-Felt 341301659-0026C	Floor - Red Brick Pattern Sheet Vinyl Flooring W/Adhesive	Black Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
B-12B-Flooring 341301659-0027	Floor - Red Brick Pattern Sheet Vinyl Flooring W/Adhesive	White Fibrous Heterogeneous	40% Cellulose	35% Non-fibrous (other)	25% Chrysotile
This is a composite result of both vinyl and backing layer					
B-12B-Floor Tile 341301659-0027A	Floor - Red Brick Pattern Sheet Vinyl Flooring W/Adhesive	Green Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-12B-Mastic 341301659-0027B	Floor - Red Brick Pattern Sheet Vinyl Flooring W/Adhesive	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-12B-Felt 341301659-0027C	Floor - Red Brick Pattern Sheet Vinyl Flooring W/Adhesive	Black Fibrous Heterogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
B-13A-Flooring 341301659-0028	Floor - Beige "Terrazo" Pattern Sheet Vinyl Floor W/Adhesive	White Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-13A-Felt 341301659-0028A	Floor - Beige "Terrazo" Pattern Sheet Vinyl Floor W/Adhesive	Black Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
B-13A-Mastic 341301659-0028B	Floor - Beige "Terrazo" Pattern Sheet Vinyl Floor W/Adhesive	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-13B-Flooring 341301659-0029	Floor - Beige "Terrazo" Pattern Sheet Vinyl Floor W/Adhesive	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-13B-Felt 341301659-0029A	Floor - Beige "Terrazo" Pattern Sheet Vinyl Floor W/Adhesive	Black Fibrous Heterogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
B-13B-Mastic 341301659-0029B	Floor - Beige "Terrazo" Pattern Sheet Vinyl Floor W/Adhesive	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-14A-Drywall 341301659-0030	East Wall - Drywall & Joint Compound W/Knock Down Texture	White Fibrous Heterogeneous	20% Cellulose	40% Gypsum 40% Non-fibrous (other)	None Detected
B-14A-Joint Compound 341301659-0030A	East Wall - Drywall & Joint Compound W/Knock Down Texture	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
B-14A-Texture 341301659-0030B	East Wall - Drywall & Joint Compound W/Knock Down Texture	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
B-14B-Drywall 341301659-0031	West Wall - Drywall & Joint Compound W/Knock Down Texture	White Fibrous Heterogeneous	20% Cellulose	40% Gypsum 40% Non-fibrous (other)	None Detected

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 Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

Initial report from 03/05/2013 15:14:11

**EMSL Analytical, Inc.**

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone/Fax: (407) 599-5887 / (407) 599-9063

<http://www.emsl.com>orlandolab@emsl.com

EMSL Order:	341301659
CustomerID:	LAWE52H
CustomerPO:	C012301109
ProjectID:	

Attn: **Ron Trapane**
AMEC E&I, Inc.
75 E. Amelia Street
Suite 200
Orlando, FL 32801

Phone: (407) 522-7570
 Fax:
 Received: 03/01/13 5:30 PM
 Analysis Date: 3/5/2013
 Collected: 2/27/2013

Project: 6380-12-0955.17, 804 W. Miller Ave

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-14B-Joint Compound 341301659-0031A	West Wall - Drywall & Joint Compound W/Knock Down Texture	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
B-14B-Texture 341301659-0031B	West Wall - Drywall & Joint Compound W/Knock Down Texture	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
B-14C-Drywall 341301659-0032	Ceiling - Drywall & Joint Compound W/Knock Down Texture	White Fibrous Heterogeneous	20% Cellulose	40% Gypsum 40% Non-fibrous (other)	None Detected
B-14C-Joint Compound 341301659-0032A	Ceiling - Drywall & Joint Compound W/Knock Down Texture	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-14C-Texture 341301659-0032B	Ceiling - Drywall & Joint Compound W/Knock Down Texture	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
B-15A 341301659-0033	Ceiling - 12"x24" (1'x1') Pattern-White Compressed Cellulose Ceiling Tile	Tan Fibrous Heterogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

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EMSL Order:	341301659
CustomerID:	LAWE52H
CustomerPO:	C012301109
ProjectID:	

Attn: **Ron Trapano**
AMEC E&I, Inc.
75 E. Amelia Street
Suite 200
Orlando, FL 32801

Phone: (407) 522-7570
 Fax:
 Received: 03/01/13 5:30 PM
 Analysis Date: 3/5/2013
 Collected: 2/27/2013

Project: 6380-12-0955.17, 804 W. Miller Ave

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-15B 341301659-0034	Ceiling - 12"x24" (1'x1') Pattern- White Compressed Cellulose Ceiling Tile	Tan Fibrous Heterogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
B-16A 341301659-0035	East Wall - Yellow Mastic	Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-16B 341301659-0036	North Wall - Yellow Mastic	Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-17A 341301659-0037	South Wall - White Caulk	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-17B 341301659-0038	North Wall - White Caulk	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-18A 341301659-0039	Slab - Concrete	Gray Non-Fibrous Heterogeneous		20% Quartz 20% Ca Carbonate 60% Non-fibrous (other)	None Detected
B-18B 341301659-0040	Slab - Concrete	Gray Non-Fibrous Heterogeneous		20% Quartz 20% Ca Carbonate 60% Non-fibrous (other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

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<http://www.emsl.com>

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EMSL Order:	341301659
CustomerID:	LAWE52H
CustomerPO:	C012301109
ProjectID:	

Attn: Ron Trapane AMEC E&I, Inc. 75 E. Amelia Street Suite 200 Orlando, FL 32801	Phone: (407) 522-7570 Fax: Received: 03/01/13 5:30 PM Analysis Date: 3/5/2013 Collected: 2/27/2013
Project: 6380-12-0955.17, 804 W. Miller Ave	

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date::	3/1/2013	Sample Receipt Time:	5:30 PM
Analysis Completed Date:	3/5/2013	Analysis Completed Time:	1:25 PM

Analyst(s):

Adelmarié Bones PLM (34)

Jerry Cherian PLM (63)

Samples reviewed and approved by:

Jonathan Teda, Asbestos Lab Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

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