



Industrial Hygiene and  
Safety Technology, Inc.

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Leaders in  
Quality, Service  
and Innovation



*Report of*  
**Comprehensive  
Asbestos Survey**

*Prepared for:*  
**City of Fort Worth**  
1000 Throckmorton  
Fort Worth, TX 76102

*Building Surveyed:*  
**Oak Hollow Office 2**  
5901 Boca Raton Blvd  
Ft. Worth, TX 76112  
*(Oak Hollow Office)*

*Report Date:*  
**Wednesday, November 28, 2007**

**Comprehensive  
Asbestos Survey**  
**Oak Hollow Office 2**  
**5901 Boca Raton Blvd**  
**Ft. Worth, TX 76112**  
*(Oak Hollow Office)*

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## 1.0 Introduction

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This document is a report of a Comprehensive Asbestos Survey performed by Industrial Hygiene and Safety Technology, Inc. (IHST). IHST is licensed by the Texas Department of State Health Services (DSHS), formerly the Texas Department of Health, as an Asbestos Consultant Agency (DSHS License #10-0145. Figure 1 provides a description of the assessment described by this report.

### **Figure 1. Comprehensive Asbestos Survey Profile**

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**Client Name:** City of Fort Worth  
**Facility/Campus:** Oak Hollow Office  
**Building:** *Oak Hollow Office 2*  
5901 Boca Raton Blvd  
Ft. Worth, TX 76112  
**Survey Date(s):** 11/1/2007  
**Inspector(s):** Tracy Bramlett - DSHS Asbestos Inspector License #10-5040

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## 2.0 Purpose and Scope

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The purpose of this project was to locate, identify, and assess the condition of asbestos containing material (ACM) present at the subject building, and to develop recommendations based on existing and potential asbestos related hazards. The following scope of work was used during the asbestos assessment for the subject property:

- A. Collecting and analyzing bulk samples of suspected asbestos-containing materials.
- B. Quantification of the suspected asbestos-containing material.
- C. Approximate costs of abatement, to include abatement specifications, contractor selection, and on-site management during remediation activities.
- D. Provide an approximate time schedule for abatement procedures.
- E. Make recommendations based on survey data collected to implement an Operation and Maintenance (O&M) Program or abatement procedures.
- F. Preparing a report discussing the findings and remedial recommendations.

## 3.0 Report Organization

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This report is divided into sections which discuss the review of available documentation, field investigation, laboratory analysis, hazard assessments, and recommendations. Illustrations, such as tables and figures follow the text. Other supporting documentation, such as laboratory reports are also included.

## 4.0 Field Investigation

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The survey was conducted to determine the amount of asbestos-containing materials present in the subject building. The survey included an observation of accessible areas and unusual conditions; and bulk sampling of suspected asbestos-containing materials. Bulk samples were collected of suspect materials and analyzed by Polarized Light Microscopy (PLM) with dispersion staining, in accordance with the Environmental Protection Agency's (EPA) Method for the Determination of Asbestos in Bulk Insulation Samples (Method 600/R-93/116). Percentage estimates are based on the analyst's best

judgment following PLM/DS and examination with a stereoscope. Laboratory reports containing sample location and results are included with this report.

The survey was designed to identify the presence of both friable and non-friable asbestos-containing materials present in the surveyed area. Friable means that the material, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure. Building materials suspected of containing asbestos were grouped into "Homogeneous" sampling areas. The homogeneous areas were defined based on uniform texture, color, and appearance. Additionally, homogeneous areas were further defined based on building construction date(s). Each of the items sampled were classified into one of three categories:

- 1.) Surfacing Material: A surfacing material is a building material which has been applied to a surface (i.e., walls or ceilings) or structural members. Examples of surfacing materials which may contain asbestos are: spray-applied fireproofing, spray-applied acoustical texture, and trowel-applied textured ceilings and walls.
- 2.) Thermal System Insulation: All types of insulation used on a building's mechanical system are classified into the category of thermal system insulation. Examples of thermal system materials which may contain asbestos are: boilers and related piping, or duct insulation.
- 3.) Miscellaneous: All remaining materials which do not fall into the two above categories are placed in the miscellaneous category. Examples of miscellaneous materials which may contain asbestos are: lay-in ceiling tile, floor tile, mastic adhesives and roofing felt.

An assessment was conducted for each building material sampled. The physical assessment consists of evaluating the condition of the suspect material and the potential for future disturbance. Recommendations made for a building material which contains asbestos are based on the assessments made by the inspector during the survey. The data developed during the asbestos survey is presented in the following sections of this report.

Table 1 contains the Summary of Bulk Sample Analysis and Assessment and Table 2 contains the Cost Estimate Summary. Both tables present specific locations, results of additional asbestos analysis, time schedules, and quantities of asbestos. These cost estimates are based on IHST's experience and commercial estimates used by local abatement contractors. However, it should be noted that the cost estimates are not based on a written set of specifications or a confirmed scope of work, which can affect the final contract cost.

## 5.0 Sampling

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Sampling during the field investigation included the collection of bulk samples of suspected asbestos containing materials, as listed in Table 1., Summary of Bulk Sample Analysis and Assessment. After sample recovery, samples were placed in secure containers, and the sampling vicinity was cleaned and sealed. Appropriate chain-of-custody protocols were initiated at that time to track handling of bulk samples.

### 5.1 Laboratory Analysis

The samples were transported to and analyzed by the analytical laboratory specified in Figure 2., a successful participant in the Department of Commerce, National Institute of Standards and Technology's (NIST) National Voluntary Laboratory Accreditation Program and licensed by the Texas Department of State Health Services (DSHS), formerly the Texas Department of Health. Ten percent (10%) of the bulk samples were reanalyzed independently as part of the quality assurance and quality control programs.

**Figure 2. Bulk Sample Laboratory Profile**

**Laboratory Name:** EMSL Analytical  
**DSHS License Number:** #10872  
**NVLAP Lab ID:** #101048-0 **Expires:** 4/1/2008

**5.2 Analytical Methods**

Bulk samples were analyzed by Polarized Light Microscopy (PLM). This technique characterizes the materials refractive indices, fiber morphology, birefringence, extinction angle, sign of elongation, and dispersion staining colors to detect asbestos. Percentage estimates are based on approximate area compositions under a stereo-microscope.

**5.3 Bulk Sample Results**

The results of the sample analysis are presented in Table 1, and the laboratory analysis report is included as Appendix B.

**Figure 3. Materials with Asbestos Detected at 1% or Greater**

<b>Mat'l Type</b>	<b>Description</b>	<b>Location</b>
▪ Sheetrock	Popcorn Ceiling Texture	SE Office, Women's Restroom, Hall by Kitchen, Upstairs
▪ Sheetrock	Joint Compound and Wall Texture	SE Office, Mech Room, NE Wall Great Room, NE Office, Upstairs
▪ Flashing	Flashing	Roof by fireplace

**Figure 4. Materials with NO Asbestos Detected (Pursuant to EPA and DSHS Definition)**

<b>Mat'l Type</b>	<b>Description</b>	<b>Location</b>
▪ Sheetrock	Wall Texture	N. Wall Entry, SE Office, W. Wall Great Room, NE Office, Upstairs W. Wall
▪ Flooring Mats	Peel and Stick Flooring (Wood Grain) and Mastic (Brown)	Entry, SE Office
▪ Flooring Mats	Peel and Stick Flooring (White/Blue Pattern) and Mastic (Brown)	West Storage Office, Kitchen
▪ Flooring Mats	12" x 12" Floor Tile (Grey) and Mastic (Yellow) and (Brown)	Kitchen
▪ Ceramic Mats	Grout (White) (Under Ceramic Tile)	Great Room
▪ Brick	Fire Brick	Furnace
▪ Mastic	Mastic (Black)	Florescent Lights
▪ Caulking	Caulk	Exterior Windows

## 6.0 Hazard Assessment

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Asbestos is an airborne hazard. A hazard assessment refers to the process by which we evaluate a material's potential to release fibers into the air. Fibers may be released spontaneously as part of the aging process, or as a result of sudden impact, vibration, air movement, or localized deterioration. Assessing a material's potential for fiber release, and hence its associated hazard, is based upon evaluating the material's condition and potential for further disturbance, damage, or deterioration.

### 6.1 Hazard Assessment Rankings

Any material identified as asbestos containing that exhibits damage, should be considered a hazard to anyone who works in the area. Typically, damage is classified as minor or significant. Minor damage is characterized by small cuts, tears, scuffs, small openings, or other limited disturbance to asbestos containing materials. Areas with minor damage represent varying degrees of hazards from slight to high depending on:

- \* The nature of the damage;
- \* Proximity to disturbers, such as airstreams;
- \* Location with respect to building occupants;
- \* Activity in the immediate area; and
- \* Frequency of maintenance in the area.

Significant damage is characterized by large openings, visible flaking, loose particles, and debris on surfaces below the material. Asbestos containing materials which exhibit significant damage are either high or critical hazards, depending upon accessibility. High hazards exist where significantly damaged materials are generally inaccessible; however, where significant damage is accessible, or in the vicinity of building occupants, there is a critical hazard. The recommended action for addressing asbestos related hazards depends upon the degree of hazard. For example:

- \* An immediate hazard or critical assessment describes a situation in which the material is exposed and friable, accessible to personnel, and is disturbed releasing fibers in the air. In this situation, immediate action should be taken. At a minimum, the area should be isolated and access restricted.

- \* A high assessment describes a situation in which the material is in poor condition, exposed and friable, with a potential for disturbance. In this case, interim controls should be instituted, and the material should be removed when practical. Repairs should be made to the ACM if abatement is not scheduled.

- \* A medium or moderate assessment describes a situation in which a combination of the determining factors vary, such as a material that is in good condition but has a high asbestos content and is generally accessible. In situations like this, abatement can be scheduled with future building renovation or maintenance.

- \* A low or slight assessment describes a situation in which the material is in good condition and has a low potential for disturbance, damage, or deterioration. In this situation, an O&M program is usually all that is needed.

In general, those areas that are classified as critical or high damage should be abated. These are areas where a high probability of exposure could occur. Moderately damaged areas would require an Operations and Maintenance (O&M) Program to be instituted. In addition, these areas should be considered for abatement, or at the very least repaired.

## 6.2 Asbestos-Containing Material Assessments

Figure 5 provides a summary of the asbestos identified during the survey, along with a hazard assessment for each type and condition of asbestos-containing material.

**Figure 5. Hazard Assessments for Asbestos-Containing Materials**

### Sheetrock Wall or Ceiling Covering

**Condition: Good, Friability: NF II, Disturbance Potential: Low**

Sheetrock wall and ceiling covering in good condition presents a low potential health hazard to building occupants due to its observed good condition and intact binding matrices. Prior to building demolition, renovation or work activities that would disturb these materials, removal must be performed by a properly trained and licensed abatement contractor.

The preceding hazard assessment applies to the asbestos-containing materials listed below:

Area Ref#	Homogeneous Area Description	Quantity	Location
■ 02	Popcorn Ceiling Texture	2200 s.f.	SE Office, Women's Restroom, Hall by Kitchen, Upstairs
■ 03	Joint Compound and Wall Texture	5700 s.f.	SE Office, Mech Room, NE Wall Great Room, NE Office, Upstairs

### Waterproofing Material

**Condition: Good, Friability: NF II, Disturbance Potential: Low**

The flashing is in good condition presents a low potential health hazard to building occupants due to its observed good condition and intact binding matrices.

Currently, National Emission Standards for Hazard Air Pollutants (NESHAP) regulations allow Category II non-friable asbestos flashing in good condition, to be left in place during structural building demolition. Buildings subject to NESHAP regulations, require that wet demolition work be conducted with no visible emissions, and the presence of a "Competent Person" trained under the provisions of NESHAP to supervise the demolition work.

The asbestos-containing materials should be placed in a management program and monitored until renovation or demolition activity occurs.

The preceding hazard assessment applies to the asbestos-containing materials listed below:

Area Ref#	Homogeneous Area Description	Quantity	Location
■ 11	Flashing	6 l.f.	Roof by fireplace

## 7.0 Hazard Assessment Summary

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In the event other building materials are discovered in addition to the materials sampled in this survey, those building materials should be presumed to contain asbestos and treated as such until proven otherwise by PLM laboratory analysis.

### 7.1 Response Actions

#### Sheetrock Joint Compound and Texture

The results of the sheetrock joint compound texture on the walls of the facility were determined to be asbestos free by EMSL Analytical laboratory. However, previous testing of the sheetrock joint compound indicates that greater than 1% chrysotile asbestos is present in the joint compound. Therefore, IHST has indicated that the joint compound contains asbestos in percentages of greater than 1% in this report..

### 7.2 Explanation of Response Ratings

Table 1 includes a response rating based on factors such as friability, accessibility, potential for disturbance, etc. Definitions for the response ratings are listed below:

0 = Material does not contain detectable amounts of asbestos and requires no asbestos-related abatement action.

1 = Material contains asbestos, was non-friable, and requires no abatement action unless sanded, abraded, drilled or otherwise disturbed.

2 = Material contains asbestos and was friable. Damage was not observed; no immediate abatement action is required.

3 = Material contains asbestos, was friable, and shows signs of localized damage with a potential for disturbance.

4 = Material contains friable asbestos and was significantly damaged.

## 8.0 Qualifications

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Industrial Hygiene and Safety Technology, Inc. has attempted to observe the existing conditions within the aforementioned building utilizing generally accepted procedures. Regardless of the thoroughness of a survey, the possibility exists that some areas containing asbestos were overlooked, inaccessible or different from those at specific locations. Furthermore, renovation and/or construction may reveal altered conditions.

This report describes only the conditions present at the time of the survey, in the areas surveyed. The recommendations presented apply to the conditions that were observed during the survey. IHST policies are to not perform destructive sampling unless previously authorized by the client. Therefore, IHST does not perform core sampling of roofing materials unless previously authorized and accompanied by the owner and/or his representative. Other conditions may exist in unsurveyed or inaccessible areas such as behind walls and above permanent ceilings. In addition, the conditions of asbestos-containing materials may change gradually or suddenly depending upon use, maintenance or accident. As a result, the recommendations presented should be periodically reviewed and updated.

The quantity estimates presented in this report were based upon observations during the survey as well as information from building plans provided by the owner. While it is believed that the estimated quantities are reasonable, unanticipated conditions could be present in inaccessible or unsurveyed areas. Industrial Hygiene & Safety Technology, Inc. do not warrant or guarantee the quantity estimates. The use of such estimates shall be at the user's own risk and shall constitute a release and agreement to defend and indemnify Industrial Hygiene & Safety Technology, Inc. from and against any liability.

If you have any questions or comments regarding the content of this report, I would be glad to discuss them at your convenience.

Sincerely,



Tracy Bramlett - DSHS Asbestos Inspector License #10-5040



Tracy K. Bramlett

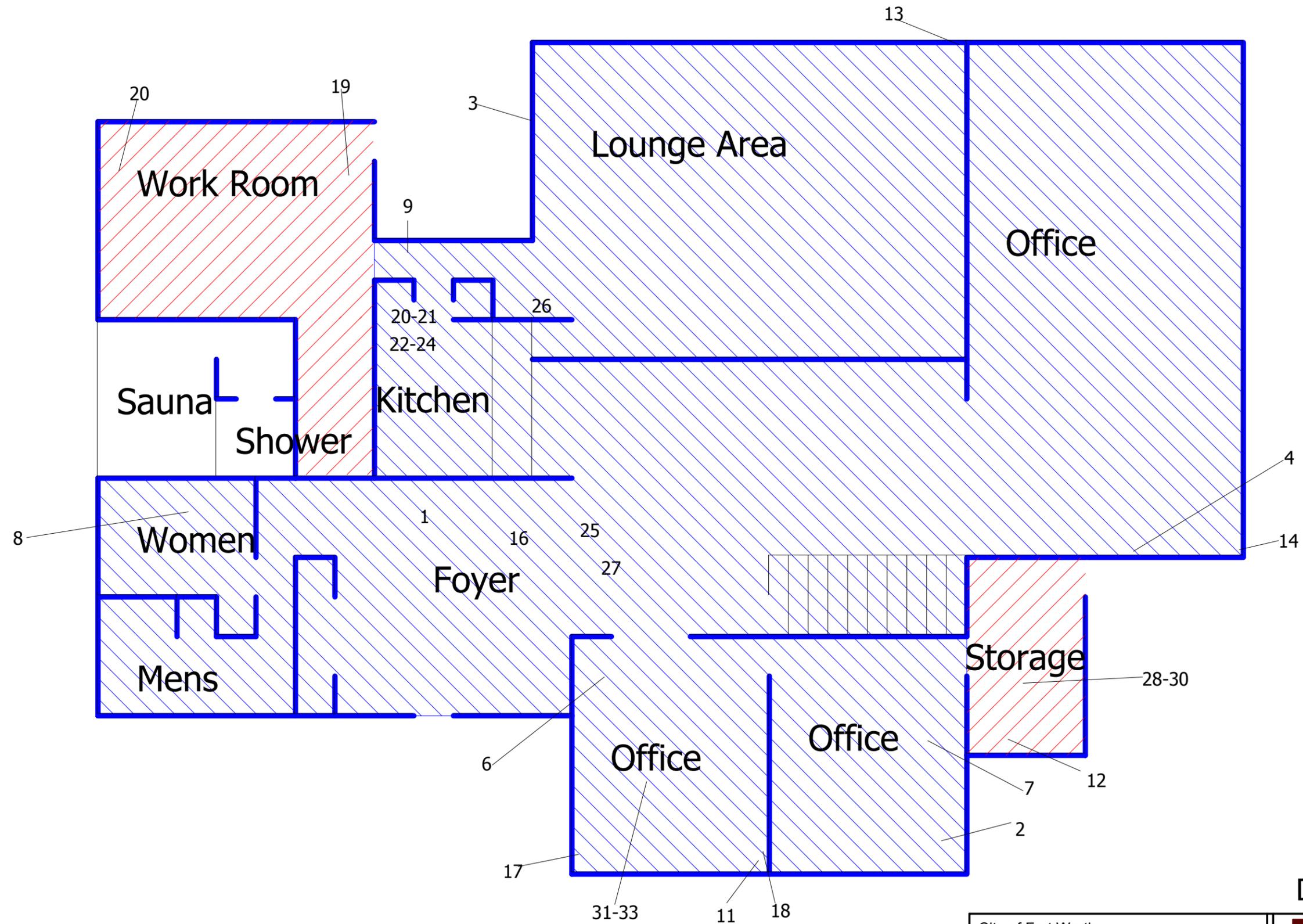
President

DSHS Individual Asbestos Consultant License #10-5040

**Appendix:**

**Appendix A: Site Drawings**





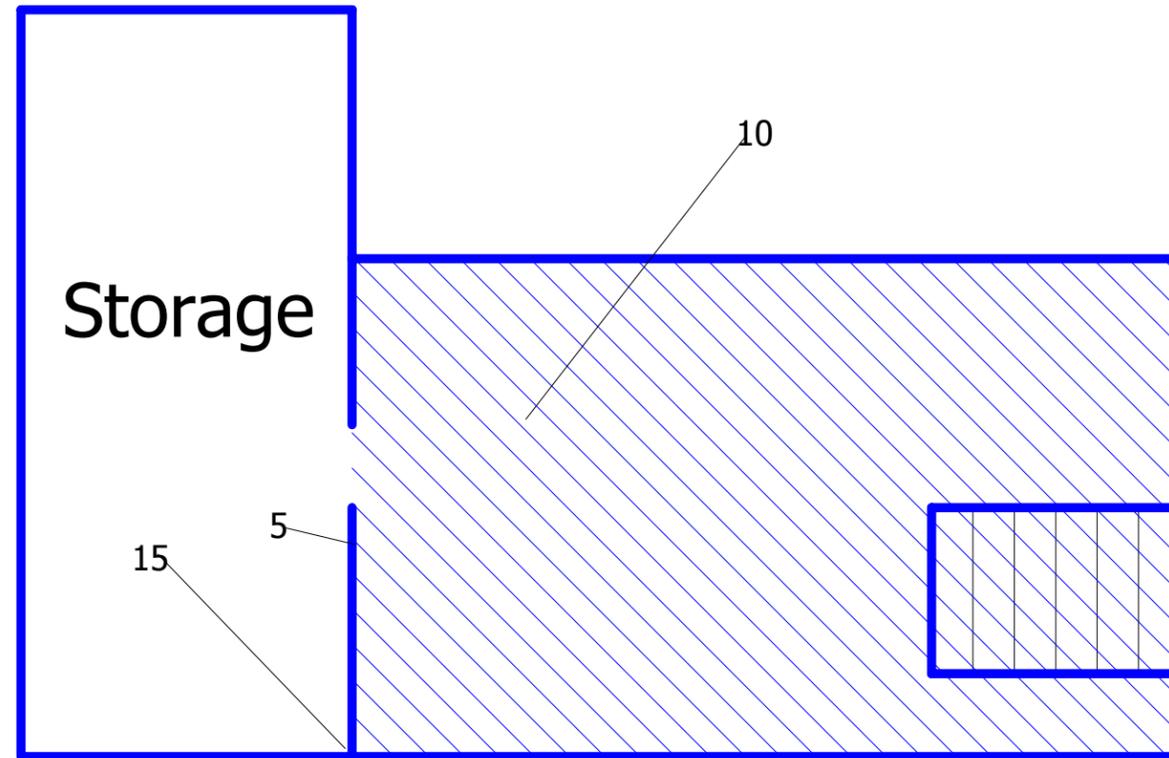
-  Sheetrock walls with joint compound
-  Beige Sheetrock ceiling with joint compound
-  White Popcorn ceiling

City of Fort Worth Oak Hollow Office, 5901 Boca Raton Fort Worth, Texas	
Asbestos Inspection	
Project # 17617	Drawing #1
Not To Scale	
Drawn by: AHG	Date: 11/28/2007
Revised by:	Date:

### Downstairs

**I H S T**

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### Upstairs

-  White Sheetrock walls with joint compound
-  White Popcorn ceiling

City of Fort Worth Oak Hollow Office, 5901 Boca Raton Fort Worth, Texas	
Asbestos Inspection	
Project # 17617	Drawing #2
Not To Scale	
Drawn by: AHG	Date: 11/28/07
Revised by:	Date:



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**Appendix:**

**Appendix B: Lab Results**





**EMSL Analytical, Inc.**

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**The Louis Berger Group, Inc.**  
**199 Water Street, 23rd Floor**  
**New York, NY 10038**

Customer ID: LOUI56  
Customer PO: JG500P5  
Received: 11/05/07 9:10 AM  
EMSL Order: 040727570

Fax: Phone: (212) 612-7900

EMSL Proj: AACM PHASE 3 FORT WORTH  
Analysis Date: 11/10/2007  
Report Date: 11/11/2007

Project: **AACM PHASE 3 FT WORTH**

**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
5906-1 WALL TEXTURE 040727570-0001	N. WALL ENTRY	White Non-Fibrous  Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-1 JT. COMPOUND 040727570-0001A	N. WALL ENTRY	White Non-Fibrous  Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-1 DRYWALL 040727570-0001B	N. WALL ENTRY	Brown/White Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (other)	<b>None Detected</b>
5906-2 WALL TEXTURE 040727570-0002	SE OFFICE	White Non-Fibrous  Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-2 JT. COMPOUND 040727570-0002A	SE OFFICE	White Non-Fibrous  Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-2 DRYWALL 040727570-0002B	SE OFFICE	Brown/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (other)	<b>None Detected</b>
5906-3 WALL TEXTURE 040727570-0003	W.WALL GREAT RM	White Non-Fibrous  Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>

Analyst(s)  

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*Delores Beard (22)*  
*Jerry Cherian (41)*

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Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.  
Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872



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**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
5906-3 JT. COMPOUND 040727570-0003A	W.WALL GREAT RM	White Non-Fibrous  Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-3 DRYWALL 040727570-0003B	W.WALL GREAT RM	Brown/White Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (other)	<b>None Detected</b>
5906-4 WALL TEXTURE 040727570-0004	N.E. OFFICE	White Non-Fibrous  Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-4 JT. COMPOUND 040727570-0004A	N.E. OFFICE	White Non-Fibrous  Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-4 DRYWALL 040727570-0004B	N.E. OFFICE	Brown/White Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (other)	<b>None Detected</b>
5906-5 WALL TEXTURE 040727570-0005	UPSTAIRS W. WALL	White Non-Fibrous  Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-5 JT. COMPOUND 040727570-0005A	UPSTAIRS W. WALL	White Non-Fibrous  Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>

Analyst(s)  

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*Jerry Cherian (41)*

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Stephen Siegel, CIH, Laboratory Manager  
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**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
5906-5 DRYWALL 040727570-0005B	UPSTAIRS W. WALL	Brown/White Fibrous Heterogeneous	30%	Cellulose	70% Non-fibrous (other) <b>None Detected</b>
5906-6 040727570-0006	S.E. OFFICE	Tan/White Fibrous Heterogeneous	15%	Cellulose	83% Non-fibrous (other) <b>2% Chrysotile</b>
5906-7 040727570-0007	S.E. OFFICE	Tan/White Fibrous Heterogeneous	15%	Cellulose	83% Non-fibrous (other) <b>2% Chrysotile</b>
5906-8 040727570-0008	WOMENS RESTROOM	Tan/White Fibrous Heterogeneous	15%	Cellulose	83% Non-fibrous (other) <b>2% Chrysotile</b>
5906-9 040727570-0009	HALL BY KITCHEN	White Non-Fibrous Heterogeneous	10%	Cellulose	88% Non-fibrous (other) <b>2% Chrysotile</b>
5906-10 040727570-0010	UPSTAIRS	White Non-Fibrous Heterogeneous	10%	Cellulose	87% Non-fibrous (other) <b>3% Chrysotile</b>
5906-11 JT. COMPOUND 040727570-0011	S.E. OFFICE	White Non-Fibrous Homogeneous			100% Non-fibrous (other) <b>None Detected</b>

Analyst(s)  

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**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
5906-11 WALL TEXTURE 040727570-0011A	S.E. OFFICE	White Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (other)	<b>None Detected</b>
5906-12 JT. COMPOUND 040727570-0012	MECHANICAL RM	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-12 WALL TEXTURE 040727570-0012A	MECHANICAL RM	White Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (other)	<b>None Detected</b>
5906-13 JT. COMPOUND 040727570-0013	N.E. WALL GREAT RM	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-13 WALL TEXTURE 040727570-0013A	N.E. WALL GREAT RM	White Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (other)	<b>None Detected</b>
5906-14 JT. COMPOUND 040727570-0014	N.E. OFFICE	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-14 WALL TEXTURE 040727570-0014A	N.E. OFFICE	White/Brown Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (other)	<b>None Detected</b>

Analyst(s)  

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*Jerry Cherian (41)*

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or other approved signatory

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Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872



**EMSL Analytical, Inc.**

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Phone: (856) 858-4800 Fax: (856) 858-4960 Email: [westmontasblab@EMSL.com](mailto:westmontasblab@EMSL.com)

Attn: **Seth Schultz**  
**The Louis Berger Group, Inc.**  
**199 Water Street, 23rd Floor**  
**New York, NY 10038**

Customer ID: LOUI56  
Customer PO: JG500P5  
Received: 11/05/07 9:10 AM  
EMSL Order: 040727570

Fax: Phone: (212) 612-7900  
Project: **AACM PHASE 3 FT WORTH**

EMSL Proj: AACM PHASE 3 FORT WORTH  
Analysis Date: 11/10/2007  
Report Date: 11/11/2007

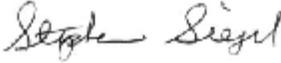
**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
5906-15 JT. COMPOUND 040727570-0015	UPSTAIRS	White Non-Fibrous  Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-15 WALL TEXTURE 040727570-0015A	UPSTAIRS	White/Brown Fibrous  Heterogeneous	10% Cellulose	90% Non-fibrous (other)	<b>None Detected</b>
5906-16 FLOORING 040727570-0016	ENTRY	Black Non-Fibrous  Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-16 MASTIC 040727570-0016A	ENTRY	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-17 FLOORING 040727570-0017	S.E. OFFICE	Brown/Black Non-Fibrous  Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-17 MASTIC 040727570-0017A	S.E. OFFICE	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-18 FLOORING 040727570-0018	S.E. OFFICE	Brown/Black Non-Fibrous  Heterogeneous		100% Non-fibrous (other)	<b>None Detected</b>

Analyst(s)  

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*Delores Beard (22)*  
*Jerry Cherian (41)*

---

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

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Customer PO: JG500P5  
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EMSL Order: 040727570

Fax: Phone: (212) 612-7900  
Project: **AACM PHASE 3 FT WORTH**

EMSL Proj: AACM PHASE 3 FORT WORTH  
Analysis Date: 11/10/2007  
Report Date: 11/11/2007

**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
5906-18 MASTIC <i>040727570-0018A</i>	S.E. OFFICE	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-19 FLOORING <i>040727570-0019</i>	WEST STORAGE OFFICE	White/Black/Blue Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-19 MASTIC <i>040727570-0019A</i>	WEST STORAGE OFFICE	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-20 FLOORING <i>040727570-0020</i>	WEST STORAGE OFFICE	White/Black/Blue Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-20 MASTIC <i>040727570-0020A</i>	WEST STORAGE OFFICE	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-21 FLOORING <i>040727570-0021</i>	KITCHEN	White/Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-21 MASTIC <i>040727570-0021A</i>	KITCHEN	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>

Analyst(s)  

---

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*Jerry Cherian (41)*

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Analysis Date: 11/10/2007  
Report Date: 11/11/2007

**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
5906-22 TILE <i>040727570-0022</i>	KITCHEN	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-22 MASTIC <i>040727570-0022A</i>	KITCHEN	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-23 TILE <i>040727570-0023</i>	KITCHEN	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-23 MASTIC <i>040727570-0023A</i>	KITCHEN	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-24 TILE <i>040727570-0024</i>	KITCHEN	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-24 MASTIC <i>040727570-0024A</i>	KITCHEN	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-25 <i>040727570-0025</i>	GREAT RM	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-26 <i>040727570-0026</i>	GREAT RM	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>

Analyst(s)  

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Report Date: 11/11/2007

**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
5906-27 040727570-0027	GREAT RM	White/Red Non-Fibrous Heterogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-28 040727570-0028	FURNACE	Tan Non-Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (other)	<b>None Detected</b>
5906-29 040727570-0029	FURNACE	Tan Non-Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (other)	<b>None Detected</b>
5906-30 040727570-0030	FURNACE	Tan Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	<b>None Detected</b>
5906-31 040727570-0031	FLORESCENT LIGHTS	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-32 040727570-0032	FLORESCENT LIGHTS	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-33 040727570-0033	FLORESCENT LIGHTS	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-34 040727570-0034	EXTERIOR WINDOWS	Various Non-Fibrous Heterogeneous		100% Non-fibrous (other)	<b>None Detected</b>

Analyst(s)  

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*Jerry Cherian (41)*

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Project: **AACM PHASE 3 FT WORTH**

**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
5906-35 040727570-0035	EXTERIOR WINDOWS	Various Non-Fibrous Heterogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-36 040727570-0036	EXTERIOR WINDOWS	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
5906-37 040727570-0037	EXTERIOR WINDOWS	White/Black Fibrous Heterogeneous	30% Cellulose SUGGEST TEM	70% Non-fibrous (other)	<b>None Detected</b>
5906-38 040727570-0038	EXTERIOR WINDOWS	White/Black Fibrous Heterogeneous	30% Cellulose	65% Non-fibrous (other)	<b>5% Chrysotile</b>
5906-39 040727570-0039	EXTERIOR WINDOWS	Black Non-Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (other)	<b>None Detected</b>

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Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

040727570

11-1-07

BRAMBLETT 10-5040

IHST PROJECT #: OAK Hollow Apt. S906 Bocaraton FORT WORTH TEXAS

HOMO AREA #	SAMPLE #	PHOTO #	SAMPLE DESCRIPTION	LOCATION	ESTIMATED QUANTITY (SF/LF/ea.)	TYPE of ACM	F NF I NF II	CONDITION (G/D/SD)	POTENTIAL FOR DISTURBANCE	RESPONSE RATING	Turnaround Time: ( ) Immediate ( ) Rush ( ) Normal	
1	S906-1		wall texture	N. Wall Entry	5700sf	S	NFII	G	L			
1	S906-2		Wall texture	SE OFFICE		S	NFII	G	L			
1	S906-3		Wall texture	W. Wall Great Rm		S	NFII	G	L			
1	S906-4		Wall texture	N. E OFFICE		S	NFII	G	L			
1	S906-5		Wall texture	UPSTAIRS W. wall		S	NFII	G	L			
2	S906-6		Popcorn Ceiling Texture	S.E. OFFICE	2200	S	F	D	L			
2	S906-7		Popcorn Ceiling Texture	S.E OFFICE		S	F	D	L			
2	S906-8		Popcorn Ceiling Texture	Women's Restroom		S	F	D	L			
2	S906-9		Popcorn Ceiling Texture	hall By Kitchen		S	F	D	L			
2	S906-10		Popcorn Ceiling Texture	UPSTAIRS		S	F	D	L			

Released by: Gary Bramblett Date/Time: 11/2/07 0900 Received by: Don Rubin FX Date/Time: 11/2/07

Released by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Industrial Hygiene & Safety Technology, Inc. 2235 Keller Way Carrollton, TX 972 478.7415 Fax 972.478.7615 TDH License #10-0145

E-mail address: [greg@ihst.com](mailto:greg@ihst.com) S schultz @ louis Berger. com

Send Results to: Louis Berger Group, 199 Water Street, 23rd Floor, New York, New York 10038

ATTN: Seth Schultz

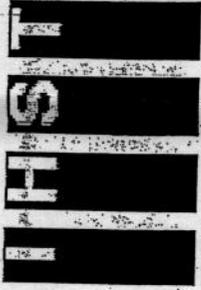
IHST  
 IHST PROJECT #: 040727570  
 PROJECT TITLE: 11-1-07  
 PROJECT ADDRESS: Bramlett 10-5040

:INSPECTOR/TD#  
 :CLIENT/CONTACT

HOMO AREA #	SAMPLE #	SAMPLE DESCRIPTION	LOCATION	ESTIMATED QUANTITY (SF/LF/ea.)	TYPE of ACM	F NFI NFII	CONDITION (G/D/SD)	POTENTIAL FOR DISTURBANCE	RESPONSE RATING	Turnaround Time: ( ) Immediate ( ) Rush ( ) Normal	
3	S906-11	Joint Cmpd./wall texture	SE OFFICE	5700	S	NFII	G	L			
3	S906-12	Joint Cmpd./wall texture	mechanical Rm		S	NFII	G	L			
3	S906-13	Joint Cmpd./wall texture	NE Wall Great Rm		S	NFII	G	L			
3	S906-14	Joint Cmpd./wall texture	NE OFFICE		S	NFII	G	L			
3	S906-15	Joint Cmpd./wall texture	UPSTAIRS		S	NFII	G	L			
4	S906-16	Wood Grain/Peel Stick Flooring	entry	250	M	NFI	D	L			
4	S906-17	Wood Grain	S.E. OFFICE	"	M	NFI	D	L			
4	S906-18	Wood Grain	S.E. OFFICE	"	M	NFI	D	L			
S	S906-19	White Blue Pattern PEEL STIC FLOORING	West Storage OFFICE	240	M	NFI	D	L			
S	S906-20	"	"	"	M	NFI	D	L			

Released by: *Graus Brantley* Date/Time: 11/2/07  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Released by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

IHST PROJECT #: \_\_\_\_\_  
 PROJECT TITLE: \_\_\_\_\_  
 PROJECT ADDRESS: \_\_\_\_\_



040727570

11-1-07 :DATE  
 Bramlett 10-5040 :INSPECTOR/TD#  
 :CLIENT/CONTACT

HOMO AREA #	SAMPLE #	PHOTO #	SAMPLE DESCRIPTION	LOCATION	ESTIMATED QUANTITY (SF/LF/ea.)	TYPE of ACM	F NFI NF II	CONDITION (G/D/SD)	POTENTIAL FOR DISTURBANCE	RESPONSE RATING	Turnaround Time: ( ) Immediate ( ) Rush ( ) Normal	
5	S906-21		White Blue Pattern Peel Strick Flooring	Kitchen		M	NFI	D	L			
6	S906-22		12X12 Grey Floor tile	Kitchen	80 SF	M	NFI	G	L			
6	S906-23		"	Kitchen	"	M	NFI	G	L			
6	S906-24		"	Kitchen	"	M	NFI	G	L			
7	S906-25		Grout under Ceramic Tile	Great Rm	70 SF	M	NFI	G	L			
7	S906-26		"	Great Rm	"	M	NFI	G	L			
7	S906-27		"	Great Rm	"	M	NFI	G	L			
8	S906-28		FIRE BRICK	Furnace	25 SF	TSI	F	G	L			
8	S906-29		FIRE BRICK	Furnace	"	TSI	F	G	L			
8	S906-30		FIRE BRICK	Furnace	"	TSI	F	G	L			

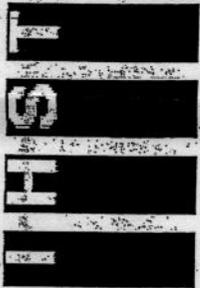
Released by: Greg Bramlett Date/Time: 11/2/07 0900 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Released by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

IHST PROJECT #:

PROJECT TITLE:

PROJECT ADDRESS:

S906 Boca Raton  
FORT WORTH TEXAS



040727570

:DATE

:INSPECTOR/TDH#

:CLIENT/CONTACT

11-01-07

Bramlett 10-5040

Louis Berger Group

Seth Schultz

Turnaround Time: ( ) Immediate ( ) Rush (X) Normal

HOMO AREA #	SAMPLE #	PHOTO #	SAMPLE DESCRIPTION	LOCATION	ESTIMATED QUANTITY (SF/LF/ea.)	TYPE of ACM	F NFI NFII	CONDITION (G/D/SD)	POTENTIAL FOR DISTURBANCE	RESPONSE RATING
9	S906-31		mastic	Florescent lights	1 LF	M	NFI	G	L	
9	S906-32		"	"	"	M	NFI	G	L	
9	S906-33		"	"	"	M	NFI	G	L	
10	S906-34		Caulk	Exterior windows	200 LF	M	NFI	G	L	
10	S906-35		"	"	"	M	NFI	G	L	
10	S906-36		"	"	"	M	NFI	G	L	
11	S906-37		Flashing		6 LF	M	NFI	G	L	
11	S906-38		Flashing		"	M	NFI	G	L	
11	S906-39		Flashing		"	M	NFI	G	L	

Released by: *Juan Sam* Date/Time: 11/2/07

Received by: Date/Time:

Industrial Hygiene & Safety Technology, Inc. 2235 Keller Way Carrollton, TX 972-478-7415 Fax 972-478-7615 TDH License #10-0145  
E-mail address: greg@ihst.com - S schultz@louisberger.com  
Send Receipts and Billing to Louis Berger Group, 199 Water Street, 23rd Fl New York, New York 10038

**Appendix:**

**Appendix C: Bulk Summary  
Report**



# Table 1. Summary of Bulk Sample Analysis and Assessment

City of Fort Worth

Oak Hollow Office 2

5901 Boca Raton Blvd

Ft. Worth, TX 76112

Survey Date(s): 11/1/2007 through 11/1/2007

Sample ID#	Sample Description	Material Location	Percent & Type of Asbestos Detected (a)	Estimated Quantity	Type of ACM (b)	Friability (c)	Physical Condition	Potential for Disturbance	Response Rating
5906-01	Wall Texture (homogeneous area # 01)	N. Wall Entry, SE Office, W. Wall Great Room, NE Office, Upstairs W. Wall	Wall Texture - NAD Joint Compound - NAD Drywall - NAD	5700 s.f.	Surfacing	NF II	Good	Low	0
5906-02	Wall Texture (homogeneous area # 01)	N. Wall Entry, SE Office, W. Wall Great Room, NE Office, Upstairs W. Wall	Wall Texture - NAD Joint Compound - NAD Drywall - NAD	5700 s.f.	Surfacing	NF II	Good	Low	0
5906-03	Wall Texture (homogeneous area # 01)	N. Wall Entry, SE Office, W. Wall Great Room, NE Office, Upstairs W. Wall	Wall Texture - NAD Joint Compound - NAD Drywall - NAD	5700 s.f.	Surfacing	NF II	Good	Low	0
5906-04	Wall Texture (homogeneous area # 01)	N. Wall Entry, SE Office, W. Wall Great Room, NE Office, Upstairs W. Wall	Wall Texture - NAD Joint Compound - NAD Drywall - NAD	5700 s.f.	Surfacing	NF II	Good	Low	0
5906-05	Wall Texture (homogeneous area # 01)	N. Wall Entry, SE Office, W. Wall Great Room, NE Office, Upstairs W. Wall	Wall Texture - NAD Joint Compound - NAD Drywall - NAD	5700 s.f.	Surfacing	NF II	Good	Low	0
5906-06	Popcorn Ceiling Texture (homogeneous area # 02)	SE Office, Women's Restroom, Hall by Kitchen, Upstairs	Ceiling Texture - 2% CH	2200 s.f.	Surfacing	NF II	Good	Low	1



Sample ID#	Sample Description	Material Location	Percent & Type of Asbestos Detected (a)	Estimated Quantity	Type of ACM (b)	Friability (c)	Physical Condition	Potential for Disturbance	Response Rating
5906-07	Popcorn Ceiling Texture (homogeneous area # 02)	SE Office, Women's Restroom, Hall by Kitchen, Upstairs	Ceiling Texture - 2% CH	2200 s.f.	Surfacing	NF II	Good	Low	1
5906-08	Popcorn Ceiling Texture (homogeneous area # 02)	SE Office, Women's Restroom, Hall by Kitchen, Upstairs	Ceiling Texture - 2% CH	2200 s.f.	Surfacing	NF II	Good	Low	1
5906-09	Popcorn Ceiling Texture (homogeneous area # 02)	SE Office, Women's Restroom, Hall by Kitchen, Upstairs	Ceiling Texture - 2% CH	2200 s.f.	Surfacing	NF II	Good	Low	1
5906-10	Popcorn Ceiling Texture (homogeneous area # 02)	SE Office, Women's Restroom, Hall by Kitchen, Upstairs	Ceiling Texture - 2% CH	2200 s.f.	Surfacing	NF II	Good	Low	1
5906-11	Joint Compound and Wall Texture (homogeneous area # 03)	SE Office, Mech Room, NE Wall Great Room, NE Office, Upstairs	Joint Compound - NAD Wall Texture - NAD	5700 s.f.	Surfacing	NF II	Good	Low	1
5906-12	Joint Compound and Wall Texture (homogeneous area # 03)	SE Office, Mech Room, NE Wall Great Room, NE Office, Upstairs	Joint Compound - NAD Wall Texture - NAD	5700 s.f.	Surfacing	NF II	Good	Low	1
5906-13	Joint Compound and Wall Texture (homogeneous area # 03)	SE Office, Mech Room, NE Wall Great Room, NE Office, Upstairs	Joint Compound - NAD Wall Texture - NAD	5700 s.f.	Surfacing	NF II	Good	Low	1
5906-14	Joint Compound and Wall Texture (homogeneous area # 03)	SE Office, Mech Room, NE Wall Great Room, NE Office, Upstairs	Joint Compound - NAD Wall Texture - NAD	5700 s.f.	Surfacing	NF II	Good	Low	1



Sample ID#	Sample Description	Material Location	Percent & Type of Asbestos Detected (a)	Estimated Quantity	Type of ACM (b)	Friability (c)	Physical Condition	Potential for Disturbance	Response Rating
5906-15	Joint Compound and Wall Texture (homogeneous area # 03)	SE Office, Mech Room, NE Wall Great Room, NE Office, Upstairs	Joint Compound - NAD Wall Texture - NAD	5700 s.f.	Surfacing	NF II	Good	Low	1
5906-16	Peel and Stick Flooring (Wood Grain) and Mastic (Brown) (homogeneous area # 04)	Entry, SE Office	Wood Grain Flooring - NAD Brown Mastic - NAD	250 s.f.	Misc	NF I	Damaged	Low	0
5906-17	Peel and Stick Flooring (Wood Grain) and Mastic (Brown) (homogeneous area # 04)	Entry, SE Office	Wood Grain Flooring - NAD Brown Mastic - NAD	250 s.f.	Misc	NF I	Damaged	Low	0
5906-18	Peel and Stick Flooring (Wood Grain) and Mastic (Brown) (homogeneous area # 04)	Entry, SE Office	Wood Grain Flooring - NAD Brown Mastic - NAD	250 s.f.	Misc	NF I	Damaged	Low	0
5906-19	Peel and Stick Flooring (White/Blue Pattern) and Mastic (Brown) (homogeneous area # 05)	West Storage Office, Kitchen	White/Blue Flooring - NAD Brown Mastic - NAD	240 s.f.	Misc	NF I	Damaged	Low	0
5906-20	Peel and Stick Flooring (White/Blue Pattern) and Mastic (Brown) (homogeneous area # 05)	West Storage Office, Kitchen	White/Blue Flooring - NAD Brown Mastic - NAD	240 s.f.	Misc	NF I	Damaged	Low	0
5906-21	Peel and Stick Flooring (White/Blue Pattern) and Mastic (Brown) (homogeneous area # 05)	West Storage Office, Kitchen	White/Blue Flooring - NAD Brown Mastic - NAD	240 s.f.	Misc	NF I	Damaged	Low	0
5906-22	12" x 12" Floor Tile (Grey) and Mastic (Yellow) and (Brown) (homogeneous area # 06)	Kitchen	Grey Floor Tile - NAD Yellow Mastic - NAD	80 s.f.	Misc	NF I	Good	Low	0



Sample ID#	Sample Description	Material Location	Percent & Type of Asbestos Detected (a)	Estimated Quantity	Type of ACM (b)	Friability (c)	Physical Condition	Potential for Disturbance	Response Rating
5906-23	12" x 12" Floor Tile (Grey) and Mastic (Yellow) and (Brown) (homogeneous area # 06)	Kitchen	Grey Floor Tile - NAD Yellow Mastic - NAD	80 s.f.	Misc	NF I	Good	Low	0
5906-24	12" x 12" Floor Tile (Grey) and Mastic (Yellow) and (Brown) (homogeneous area # 06)	Kitchen	Grey Floor Tile - NAD Brown Mastic - NAD	80 s.f.	Misc	NF I	Good	Low	0
5906-25	Grout (White) (Under Ceramic Tile) (homogeneous area # 07)	Great Room	White Grout - NAD	705 s.f.	Misc	NF II	Good	Low	0
5906-26	Grout (White) (Under Ceramic Tile) (homogeneous area # 07)	Great Room	White Grout - NAD	705 s.f.	Misc	NF II	Good	Low	0
5906-27	Grout (White) (Under Ceramic Tile) (homogeneous area # 07)	Great Room	White/Red Grout - NAD	705 s.f.	Misc	NF II	Good	Low	0
5906-28	Fire Brick (homogeneous area # 08)	Furnace	Fire Brick - NAD	25 s.f.	TSI	NF II	Good	Low	0
5906-29	Fire Brick (homogeneous area # 08)	Furnace	Fire Brick - NAD	25 s.f.	TSI	NF II	Good	Low	0
5906-30	Fire Brick (homogeneous area # 08)	Furnace	Fire Brick - NAD	25 s.f.	TSI	NF II	Good	Low	0



Sample ID#	Sample Description	Material Location	Percent & Type of Asbestos Detected (a)	Estimated Quantity	Type of ACM (b)	Friability (c)	Physical Condition	Potential for Disturbance	Response Rating
5906-31	Mastic (Black) (homogeneous area # 09)	Florescent Lights	Black Mastic - NAD	1 l.f.	Misc	NF II	Good	Low	0
5906-32	Mastic (Black) (homogeneous area # 09)	Florescent Lights	Black Mastic - NAD	1 l.f.	Misc	NF II	Good	Low	0
5906-33	Mastic (Black) (homogeneous area # 09)	Florescent Lights	Black Mastic - NAD	1 l.f.	Misc	NF II	Good	Low	0
5906-34	Caulk (homogeneous area # 10)	Exterior Windows	Caulking - NAD	200 l.f.	Misc	NF II	Good	Low	0
5906-35	Caulk (homogeneous area # 10)	Exterior Windows	Caulking - NAD	200 l.f.	Misc	NF II	Good	Low	0
5906-36	Caulk (homogeneous area # 10)	Exterior Windows	Caulking - NAD	200 l.f.	Misc	NF II	Good	Low	0
5906-37	Flashing (homogeneous area # 11)	Roof by fireplace	White/Black Flashing - NAD	6 l.f.	Misc	NF II	Good	Low	1
5906-38	Flashing (homogeneous area # 11)	Roof by fireplace	White/Black Flashing - 5% CH	6 l.f.	Misc	NF II	Good	Low	1



Sample ID#	Sample Description	Material Location	Percent & Type of Asbestos Detected (a)	Estimated Quantity	Type of ACM (b)	Friability (c)	Physical Condition	Potential for Disturbance	Response Rating
5906-39	Flashing (homogeneous area # 11)	Roof by fireplace	Black Flashing - NAD	6 l.f.	Misc	NF II	Good	Low	1

**Table Key:**

(a) CH = Chrysotile; AM = Amosite; CR = Crocidolite; AN = Anthophyllite; AC = Actinolite; NAD = NAD = No Asbestos Detected

(b) Misc = Miscellaneous; TSI = Thermal Systems Insulation

(c) F = Friable; NF I = Non-Friable Category I; NF II = Non-Friable Category II



**Appendix:**

**Appendix D: Photographs**



### Survey Photographs



Grout (White) (Under Ceramic Tile): Great Room; Qty: 705 s.f.



Peel and Stick Flooring (White/Blue Pattern) and Mastic (Brown): West Storage Office, Kitchen; Qty: 240 s.f.



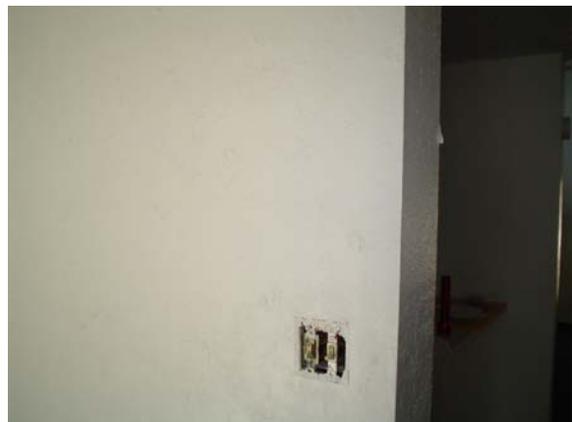
Peel and Stick Flooring (Wood Grain) and Mastic (Brown): Entry, SE Office; Qty: 250 s.f.



Popcorn Ceiling Texture: SE Office, Women's Restroom, Hall by Kitchen, Upstairs; Qty: 2200 s.f.



Popcorn Ceiling Texture: SE Office, Women's Restroom, Hall by Kitchen, Upstairs; Qty: 2200 s.f.



Wall Texture: N. Wall Entry, SE Office, W. Wall Great Room, NE Office, Upstairs W. Wall; Qty: 5700 s.f.