



# **ASBESTOS CONTAINING BUILDING MATERIAL REPORT BUILDING 35**

**Bay Pines VA Medical Center  
10000 Bay Pines Boulevard  
Bay Pines, Florida**

Project No. 2009011.001

July 31, 2009



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## ACKNOWLEDGMENT

This Asbestos Building Survey/Analytical Report was prepared for the Department of Veteran Affairs Medical Center, Bay Pines, Florida in anticipation of potential future building renovations and in accordance with an established scope of work as defined in Contract Number VA248-P-1114. The information presented herein is based on the facts and information conveyed to or received by M&A during the preparation of this report. If any of the information provided to M&A that was used in preparing this plan is incorrect, incomplete, or subject to change, M&A would wish to alter its opinion(s) accordingly. In addition, the professional opinions and information contained in this report are based solely on the requirements of the applicable regulations and technical data as known to M&A as of the date of this report and considered applicable to this report.

This report was prepared by the following Mabbett & Associates, Inc. personnel:



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## TABLE OF CONTENTS

Description	Page
1.0 INTRODUCTION & EXECUTIVE SUMMARY	1
2.0 BUILDING DESCRIPTION	1
3.0 SAMPLING METHODOLOGY	1
4.0 ANALYTICAL METHODOLOGY	2
5.0 SUMMARY OF ASBESTOS CONTAINING MATERIALS (ACM) FINDINGS	2
6.0 LIMITATIONS	4
7.0 CLOSING REMARKS	4

**Table**  
Table of ACM Results

**Photos**  
Photos of Positive Representative Samples

**Drawings**  
18" x 32" Floor Plan (with ACM survey information)

**Appendices/Back-up Data**

Appendix A	Laboratory Certifications/Asbestos Laboratory Analysis Reports
Appendix B	Inspector Field Data Sheets

## 1.0 INTRODUCTION & EXECUTIVE SUMMARY

Mabbett and Associates, Inc. (M&A) with ECS Florida, LLC (ECS) as a sub-contractor performed a pre-renovation asbestos-containing materials (ACM) inspection survey of the VA Medical Center located at 10000 Bay Pines Boulevard, Bay Pines, Florida under contract VA248-P-1114. Site survey work was performed during June and July, 2009, by appropriately credentialed personnel as required. There were 33 samples collected during the course of the survey phase. Samples collected were analyzed by a certified laboratory for asbestos content by polarized light microscopy (PLM) using stop positive methodology. Materials consisting of multiple layers were analyzed separately. The results of the survey indicated the presence of asbestos in the building.

This building report consists of a summary of findings, floor plans indicating sample locations and findings information, detailed analytical findings for the specific surveyed building, photos of identified ACM positive homogenous samples; and Appendices/Back-up Data, including laboratory results and field data sheets.

## 2.0 BUILDING DESCRIPTION

According to information provided by VAMC Bay Pines and observations made during the field survey, Building 35 was a 2-story Police Station built in 1938-1939. Building 35 was approximately 3,036 square feet (ft<sup>2</sup>).

## 3.0 SAMPLING METHODOLOGY

Samples of suspected ACM including floor tile, mastic, plaster, etc. were collected from accessible building locations according to the scope of work, Pinellas County Code Chapter 58, National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61 and other applicable state and Federal guidelines. Bulk material sampling was conducted according to the following sampling plan:

a) Surfacing material:

- (1) At least three bulk samples shall be collected from each homogeneous area that is 1,000 ft<sup>2</sup> or less.
- (2) At least five bulk samples shall be collected from each homogeneous area that is greater than 1,000 ft<sup>2</sup> but less than or equal to 5,000 ft<sup>2</sup>.
- (3) At least seven bulk samples shall be collected from each homogeneous area that is greater than 5,000 ft<sup>2</sup>.

(b) Thermal system insulation:

- (1) At least three bulk samples from each homogeneous area of thermal system insulation
- (2) At least one bulk sample from each homogeneous area of patched area of thermal system insulation.
- (3) Sufficient samples from elbows and fittings to determine if it contains ACM.
- (4) Bulk samples were not collected from any homogeneous area where the accredited inspector determined that the thermal system insulation is fiberglass, foam glass, rubber, or other non-ACBM.

(c) Miscellaneous material:

- (1) At least one bulk sample shall be collected from each homogeneous area that is less than 100 ft<sup>2</sup>
- (2) At least three bulk samples shall be collected from each homogeneous area that is greater than 100 ft<sup>2</sup>

A visual screening inspection was conducted by Florida Licensed Asbestos Inspectors throughout the entire Building 35 to determine the locations of suspect ACM. Only areas that were accessible during the field work phase were inspected. Many offices, patient care areas, and other sensitive areas were not accessible by the survey teams. Any suspect ACM that may be present within the walls, above inaccessible hard ceilings, or in other inaccessible locations, that was not inspected should be assumed to contain asbestos if discovered during any renovation process or until otherwise verified.

#### **4.0 ANALYTICAL METHODOLOGY**

The bulk asbestos samples collected including available layers were analyzed by polarized light microscopy (PLM). Sampling results are summarized in the enclosed Building Results Table. The PLM analytical protocol requires each layer of the sample to be analyzed separately. The quantity of analyses will vary based on the number of layers in a sample and whether a "positive stop" is employed. Note: when one sample of a homogeneous area is positive, the remainder of the samples was not analyzed because the entire homogeneous area is considered positive, as indicated on the results tables and drawings.

NESHAP requires that if the asbestos content of friable ACM is less than 10%, as determined by a method other than point counting by PLM, verify the asbestos content by point counting using PLM.

Samples were submitted to EMSL Analytical, Inc., of Beltsville, MD for PLM analysis of bulk materials via EPA 600/R-93/116 Method. PLM analysis was conducted in conjunction with dispersion staining as outlined by 40 CFR 63, Subpart F dated January 1987. EMSL Analytical is accredited by the American Industrial Hygiene Association (AIHA) and participates in the National Voluntary Laboratory Accreditation Program (NVLAP License 101151-0). Copies of the laboratory accreditations are included in Appendix A.

For purposes of this report and consistent with county and Federal regulations, asbestos containing materials are any materials containing more than one percent (1%) asbestos as determined by PLM.

#### **5.0 SUMMARY OF ASBESTOS CONTAINING MATERIALS (ACM) FINDINGS**

A table with all available sample results for this building is enclosed with a summary of positive sample locations below. Where a sample was found positive, a representative photo of the material is provided in the Photos section of this report. Analytical results and Inspector Field Notes are provided in Appendix A and Appendix B respectively.

The CADD drawing for this building shows approximate asbestos sample locations and shortened sample numbers. The floor plan legend shows positive sample numbers and associated positive (stop positives) in blue on the drawing. Building areas containing ACM are shown on the drawing in red with markings to indicate the kind of material (e.g., floor title).

## Summary of Positive ACM Samples

Sample#	Sample Location	ACM Location	Description of Material	Percent and Type of Asbestos	Condition	Estimated Quantity	NESHAP Category
1	3, 5, C2	Throughout Building	12" x 12" White Floor Tile	2% Chrysotile	Good	1,560 Square Feet	I
24	Entire Exterior	Exterior	Exterior Stucco	1.5% Chrysotile**	Good	2,800 Square Feet	Friable
Roofing 35-4	Roof	Roof	Flashing	3% Chrysotile	Good	300 Square Feet	I

SF – Square Feet

LF – Linear Feet

\*\* – Confirmed Positive by 400 Point Count Methodology Analysis

Category I – non-friable asbestos-containing material (ACM) – means asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 percent asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR part 763, Section 1, Polarized Light Microscopy.

Category II – non-friable ACM – means any material, excluding Category I non-friable ACM, containing more than 1 percent asbestos as determined using the methods specified in Appendix A, Subpart F, 40 CFR part 763, Section I, Polarized Light Microscopy that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Friable asbestos material – means any material containing more than 1 percent asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR part 763 Section I, Polarized Light Microscopy, that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

## **6.0 LIMITATIONS**

This inspection report is the result of a diligent search of the building for asbestos containing building materials. The purpose of this inspection was to identify ACM. Only materials that were accessible were sampled and submitted to the laboratory for asbestos analysis. However comprehensive this inspection appears, it does not claim to have identified all of the asbestos-containing materials present in the facility. M&A's evaluation was performed with limitations inherent to visual inspections. M&A has conducted this assessment with reasonable care and has performed this study within general industry standards. As with any study of this nature, limitations are inherent. There can be no assurances, and M&A makes no assurances, that the said information, research, and technology may not change in the future, thus affecting the services provided. M&A understands that you will be the sole recipient of our report and will not distribute the report to any other party without prior written approval.

## **7.0 CLOSING REMARKS**

The VAMC should assume materials not previously sampled due to accessibility, etc. which will be impacted by any future renovation activities to be asbestos-containing materials unless proved otherwise. Only Florida Licensed Asbestos Consultants can state that a building material is presumed to be asbestos-containing. If asbestos-containing materials must be disturbed as a part of the renovations, all ACMs must be removed by a State of Florida licensed asbestos abatement contractor. If proposed renovations will not disturb asbestos-containing materials, continuous monitoring of ACMs should be conducted throughout renovation activities to ensure the ACMs remain in an intact condition. Additionally, prior to commencing renovations, all contractors involved with the renovations should be made aware of the location and quantity of ACM within the building in which they will be working.

If any asbestos-containing material is damaged or becomes damaged it should be repaired, if possible, or removed entirely.

Prior to initiating any renovation or demolition project, Federal Law requires that the local EPA representative's office be notified in writing at least 10 working days prior to the onset of the project. The State Asbestos Coordinator's Office also requires a copy of the notification (address to State Asbestos Coordinator, State of Florida Environmental Regulation, 2600 Blare Stone Road, Tallahassee, Florida 32399-2400).

## TABLE

Asbestos Screening Results  
VA Medical Center - Bay Pines, FL

Building 35

Sample #	Room #	Area Designation	Description of Material	Asbestos % Type <sup>(a)</sup>	Estimated Quantity	Location	Condition	NESHAP Category
35SWM 1	3		12" x 12" White Floor Tile	2% Chrysotile	1,560 Square Feet	Throughout Building	Good	I
35SWM 2	5		12" x 12" White Floor Tile	stop positive	1,560 Square Feet	Throughout Building	Good	I
35SWM 3	C2		12" x 12" White Floor Tile	stop positive	1,560 Square Feet	Throughout Building	Good	I
35SWM 1A	3		Black Mastic	NAD				
35SWM 2A	5		Black Mastic	NAD				
35SWM 3A	C2		Black Mastic	NAD				
35SWM 4	7A		White Plaster Skim	NAD				
35SWM 5	3		White Plaster Skim	NAD				
35SWM 6	3		White Plaster Skim	NAD				
35SWM 4A	7A		White Plaster Rough	NAD				
35SWM 5A	3		White Plaster Rough	NAD				
35SWM 6A	3		White Plaster Rough	NAD				
35SWM 7	3		2' x 2' Pinhole Ceiling Tile	NAD				
35SWM 8	9		2' x 2' Pinhole Ceiling Tile	NAD				
35SWM 9	11		Tan Carpet Mastic	NAD				
35SWM 10	11		Tan Carpet Mastic	NAD				
35SWM 11	12		Tan Carpet Mastic	NAD				
35SWM 12	3		Black Spray-on waterproofing	NAD				
35SWM 13	3		Black Spray-on waterproofing	NAD				
35SWM 14	1		Black Spray-on waterproofing	NAD				
35SWM 15	3		Residual Insulation	NAD				
35SJM 16A*	3		Residual Insulation	NAD				
35SWM 17	3		Residual Insulation	NAD				
35SWM 18	C-2		White Plaster (skim)	NAD				
35SWM 19	1		White Plaster (skim)	NAD				
35SWM 18A	C-2		White Plaster (rough)	NAD				
35SWM 19A	1		White Plaster (rough)	NAD				
35SWM 20	12		Tan Baseboard Mastic	NAD				
35SWM 21	C-2		Tan Baseboard Mastic	NAD				
35SWM 22	3		Tan Baseboard Mastic	NAD				
35SWM 23	C-2		2x2 Pinhole Ceiling Tile	NAD				
35SWM 24		Exterior	Exterior Stucco	1.50% Chrysotile <sup>(c,d)</sup>	2800 Square Feet	Entire Exterior	Good	Friable
35SWM 25		Exterior	Exterior Stucco	stop positive	2800 Square Feet	Entire Exterior	Good	Friable
35SWM 26		Exterior	Exterior Stucco	stop positive	2800 Square Feet	Entire Exterior	Good	Friable
35SWM 27		Exterior	Exterior Stucco	stop positive	2800 Square Feet	Entire Exterior	Good	Friable
35SWM 28		Exterior	Exterior Stucco	stop positive	2800 Square Feet	Entire Exterior	Good	Friable
35SWM 29		Exterior	Exterior Stucco	stop positive	2800 Square Feet	Entire Exterior	Good	Friable
35SWM 30		Exterior	Exterior Stucco	stop positive	2800 Square Feet	Entire Exterior	Good	Friable
35SWM 31		Crawl Space	Paper Wrap	NAD				
35SWM 32		Crawl Space	Paper Wrap	NAD				
35SWM 33		Crawl Space	Paper Wrap	NAD				
35SWM Roofing 35-1		Roof	Roofing	NAD				
35SWM Roofing 35-2		Roof	Roofing	NAD				
35SWM Roofing 35-3		Roof	Roofing	NAD				
35SWM Roofing 35-4		Roof	Flashing	3% Chrysotile	300 Square Feet	Roof	Good	I
35SWM Roofing 35-5		Roof	Flashing	stop positive	300 Square Feet	Roof	Good	I
35SWM Roofing 35-6		Roof	Flashing	stop positive	300 Square Feet	Roof	Good	I

NOTES:

- a The asbestos concentration, reported as a percentage, represents analysis using polarized light microscopy (PLM), unless otherwise noted.
- b Sample contained > 1% asbestos based on PLM analysis. However, no asbestos detected using EPA Method 600/R-93/116 and quantitation using 400-point count method.
- c The asbestos concentration, reported as a percentage, represents analysis using EPA Method 600/R-93/116 and quantitation using 400-point count methodology.
- d Sample 35-JWM-24 contained 5% chrysotile asbestos based on PLM analysis.
- Red Text Represents a sample and its respective homogeneous group ("stop positive") that is positive for asbestos
- NAD No asbestos detected
- N/A Analysis not applicable

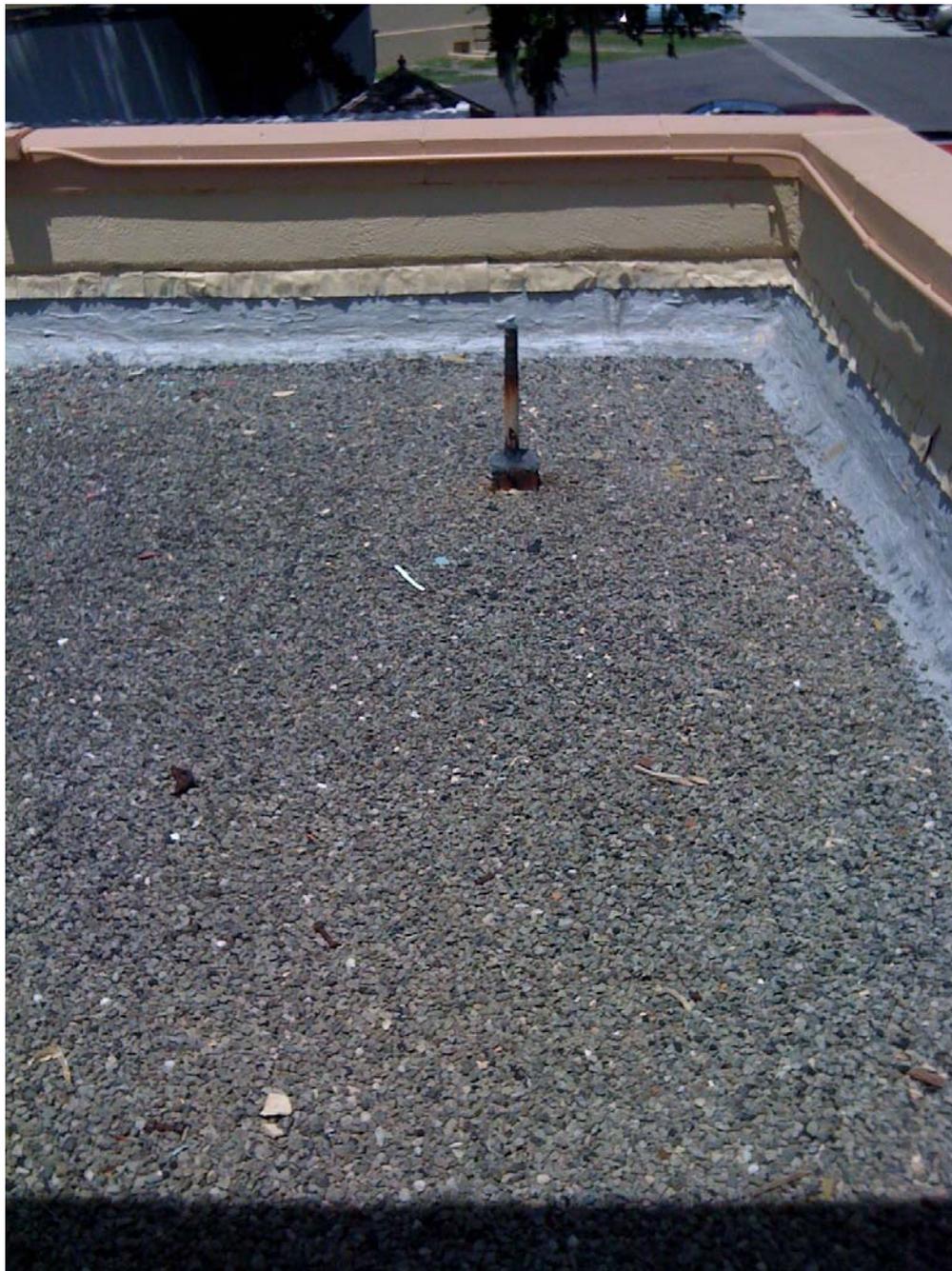
## **PHOTOS**



**Building 35**  
**Sample 1 – 12" x 12" White Floor Tile**



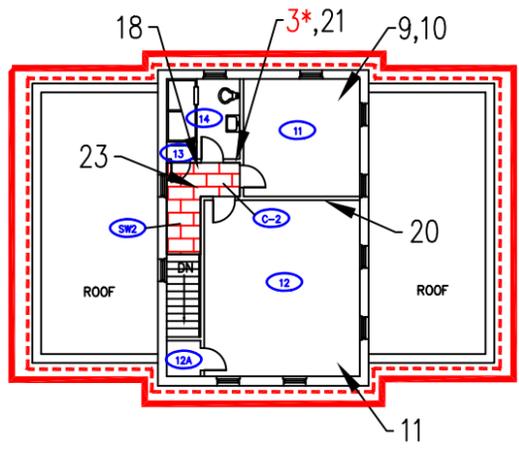
**Building 35**  
**Sample 24 - Exterior Stucco**



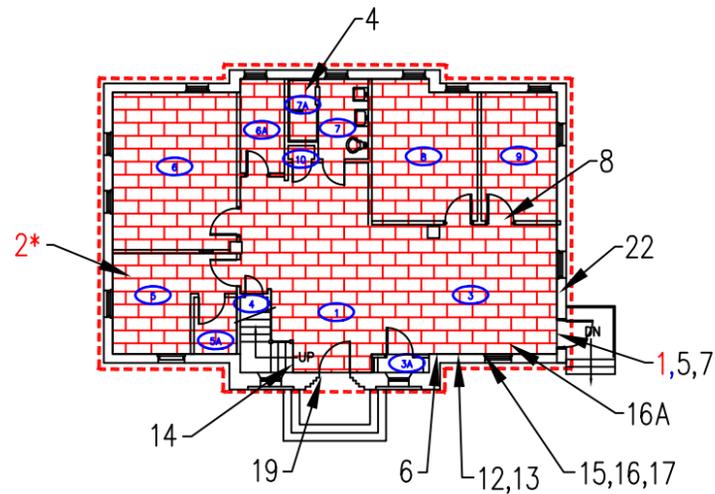
**Building 35**  
**Sample Roofing 35-4 - Flashing**

## **DRAWINGS**

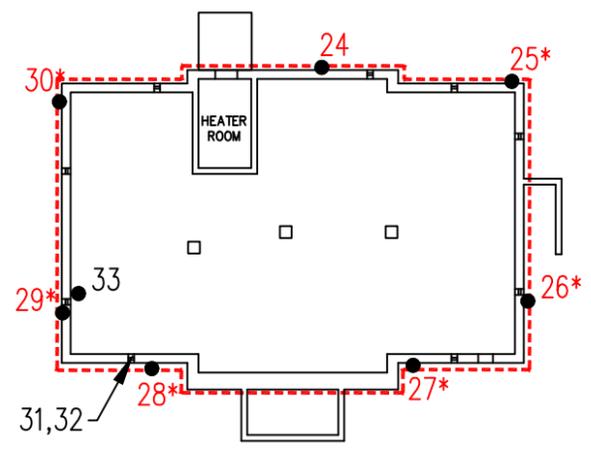
A three inches = one foot  
 B One and one-half inches = one foot  
 C one inch = one foot  
 D three-quarters inch = one foot  
 E one-half inch = one foot  
 F three-eighth inch = one foot  
 one-quarter inch = one foot  
 one-eighth inch = one foot



PLAN OF SECOND FLOOR



PLAN OF FIRST FLOOR



PLAN OF FOUNDATION

NOTES

1. SAMPLES (35-SJN-1ROOF, 35-SJN-2ROOF, 35-SJN-3ROOF, 35-SJN-4ROOF, 35-SJN-5ROOF\*, 35-SJN-6ROOF\*) COLLECTED FROM ROOF.
2. CRAWL SPACE ENTRANCE DOOR LOCKED, NOT ACCESSIBLE.
3. CRAWL SPACE OBSERVED AND SAMPLED THROUGH WINDOW OPENINGS.
4. PIPE WRAP DEBRIS ON SOIL FLOOR.
5. PIPE INSULATION APPEARS TO BE FIBERGLASS.

LEGEND

- 1,2 APPROXIMATE SAMPLE LOCATION
- 25 SAMPLE GREATER THAN 1% ASBESTOS
- 25\* STOP POSITIVE SAMPLE FOR ASBESTOS
- 25 NO ASBESTOS DETECTED (NAD)
- HATCHED AREAS INDICATE POSITIVE DETECTION OF ASBESTOS CONTAINING BUILDING COMPONENTS
- EXTERIOR STUCCO
- [Red Hatched Box] 12"x12" FLOOR TILE
- [Red Line] ROOF FLASHING

Drawing Title FOUNDATION, FIRST & SECOND FLOOR PLANS SCALE: 1/8" = 1'-0"		Project Title ACM SURVEY		Date JULY 31, 2009
Building Number 35		Checked RKM	Drawn DJA	Project No. 2009011.001
Location V.A.M.C. BAY PINES, FLORIDA		DRAWING NO. 1		Dwg. 1 Of 1



**APPENDIX A**  
**LAB REPORTS**



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**Orlando, FL 32809**

Customer ID: ECSSL77  
Customer PO: 24-3255  
Received: 06/22/09 11:30 AM  
EMSL Order: 190905784

Fax: (407) 859-9599 Phone: (407) 859-8378  
Project: 24-3255

EMSL Proj:  
Analysis Date: 6/25/2009

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
35-SWM-1 190905784-0001	12 x 12 wht ft & mastic	White Non-Fibrous Heterogeneous	5% Cellulose	93% Non-fibrous (other)	2% Chrysotile
tile					
35-SWM-1A 190905784-0001A	12 x 12 wht ft & mastic	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
mastic					
35-SWM-2 190905784-0002	12 x 12 wht ft & mast				Stop Positive (Not Analyzed)
tile					
35-SWM-2A 190905784-0002A	12 x 12 wht ft & mast	Black Non-Fibrous Heterogeneous	5% Cellulose 5% Hair 5% Synthetic	85% Non-fibrous (other)	None Detected
mastic					
35-SWM-3 190905784-0003	12 x 12 wht ft & mast				Stop Positive (Not Analyzed)
tile					
35-SWM-3A 190905784-0003A	12 x 12 wht ft & mast	Brown/Yellow Fibrous Heterogeneous	2% Cellulose	98% Non-fibrous (other)	None Detected
mastic					

Analyst(s)

Emily Baker (21)  
George Malone (11)

Joe Centifonti, 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.

Samples analyzed by EMSL Analytical, Inc. Beltsville 10768 Baltimore Avenue, Beltsville MD NVLAP Lab Code 200293-0



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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
35-SWM-4 190905784-0004	wht plaster	Gray Non-Fibrous Heterogeneous	skim	100% Ca Carbonate	None Detected
35-SWM-4A 190905784-0004A	wht plaster	White Non-Fibrous Heterogeneous	rough	100% Non-fibrous (other)	None Detected
35-SWM-5 190905784-0005	wht plaster	Rose/Green Non-Fibrous Heterogeneous	skim	100% Non-fibrous (other)	None Detected
35-SWM-5A 190905784-0005A	wht plaster	Brown Non-Fibrous Heterogeneous	rough	100% Non-fibrous (other)	None Detected
35-SWM-6 190905784-0006	wht plast	Tan/White Non-Fibrous Heterogeneous	skim	100% Non-fibrous (other)	None Detected
35-SWM-6A 190905784-0006A	wht plast	Gray/Rust Non-Fibrous Heterogeneous	rough	60% Non-fibrous (other) 40% Quartz	None Detected

Analyst(s)

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George Malone (11)

Joe Centifanti, Laboratory Manager  
or other approved signatory

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

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, Asbestos % Type. Rows include samples 35-SWM-7 through 35-SWM-13 with their respective descriptions and analysis results.

Analyst(s)

Emily Baker (21)
George Malone (11)

Handwritten signature of Joe Centifonti

Joe Centifonti, Laboratory Manager
or other approved signatory

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
35-SWM-14 190905784-0014	blk spray on wp	Black/Tan Non-Fibrous Heterogeneous		60% Non-fibrous (other) 40% Quartz	None Detected
35-SWM-15 190905784-0015	resid ins	Beige Non-Fibrous Heterogeneous	90% Min. Wool	10% Non-fibrous (other)	None Detected
35-SWM-16 190905784-0016	resid ins				Insufficient Material
35-SWM-17 190905784-0017	resid ins	Beige/Gray Fibrous Heterogeneous	100% Glass		None Detected
35-SWM-18 190905784-0018	wht plaster	White Non-Fibrous Heterogeneous		90% Ca Carbonate 10% Non-fibrous (other)	None Detected
35-SWM-18A 190905784-0018A	wht plaster	Gray Non-Fibrous Heterogeneous	skim	100% Non-fibrous (other)	None Detected
35-SWM-19 190905784-0019	wht plaster	White Non-Fibrous Heterogeneous	rough	100% Non-fibrous (other)	None Detected
			skim		

Analyst(s)

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or other approved signatory

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Attn: **Jason Marberry**  
**ECS, Ltd.**  
**2815 Directors Row.Suite 500**  
**Orlando, FL 32809**

Customer ID: ECSL77  
Customer PO: 24-3255  
Received: 06/22/09 11:30 AM  
EMSL Order: 190905784

Fax: (407) 859-9599 Phone: (407) 859-8378  
Project: 24-3255

EMSL Proj:  
Analysis Date: 6/25/2009

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
35-SWM-19A 190905784-0019A	wht plaster	Gray/Beige Non-Fibrous Heterogeneous		60% Non-fibrous (other) 40% Quartz	None Detected
			rough		
35-SWM-20 190905784-0020	tan cove base mastic	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
35-SWM-21 190905784-0021	tan cb mastic	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
35-SWM-22 190905784-0022	tan cb mastic	Tan/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
35-SWM-23 190905784-0023	2x2 pinhole ct	Tan/White Fibrous Heterogeneous	30% Cellulose	50% Non-fibrous (other) 20% Perlite	None Detected
35-SWM-24 190905784-0024	stucco	Brown Non-Fibrous Heterogeneous	5% Wollastonite	90% Non-fibrous (other)	5% Chrysotile
35-SWM-25 190905784-0025	stucco				Stop Positive (Not Analyzed)

Analyst(s)

Emily Baker (21)  
George Malone (11)

Joe Centifonti, 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.

Samples analyzed by EMSL Analytical, Inc. Beltsville 10768 Baltimore Avenue, Beltsville MD NVLAP Lab Code 200293-0



EMSL Analytical, Inc.  
10768 Baltimore Avenue, Beltsville, MD 20705

Phone: (301) 937-5700 Fax: (301) 937-5701 Email: [beltsvillelab@emsl.com](mailto:beltsvillelab@emsl.com)

Attn: **Jason Marberry**  
**ECS, Ltd.**  
**2815 Directors Row.Suite 500**  
**Orlando, FL 32809**

Customer ID: ECCL77  
Customer PO: 24-3255  
Received: 06/22/09 11:30 AM  
EMSL Order: 190905784

Fax: (407) 859-9599 Phone: (407) 859-8378  
Project: 24-3255

EMSL Proj:  
Analysis Date: 6/25/2009

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
35-SWM-26 190905784-0026	stucco				Stop Positive (Not Analyzed)
35-SWM-27 190905784-0027	stucco				Stop Positive (Not Analyzed)
35-SWM-28 190905784-0028	stucco				Stop Positive (Not Analyzed)
35-SWM-29 190905784-0029	stucco				Stop Positive (Not Analyzed)
35-SWM-30 190905784-0030	stucco				Stop Positive (Not Analyzed)
35-SWM-31 190905784-0031	paper wrap	Tan/White Fibrous Heterogeneous	30% Cellulose 10% Glass	60% Non-fibrous (other)	None Detected
35-SWM-32 190905784-0032	paper wrap	Tan/White Fibrous Heterogeneous	30% Cellulose 10% Glass	60% Non-fibrous (other)	None Detected

Analyst(s)

Emily Baker (21)  
George Malone (11)

Joe Centifonti, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Beltsville 10768 Baltimore Avenue, Beltsville MD NVLAP Lab Code 200293-0



EMSL Analytical, Inc.  
10768 Baltimore Avenue, Beltsville, MD 20705

Phone: (301) 937-5700 Fax: (301) 937-5701 Email: [beltsvillelab@emsl.com](mailto:beltsvillelab@emsl.com)

Attn: **Jason Marberry**  
**ECS, Ltd.**  
**2815 Directors Row.Suite 500**  
**Orlando, FL 32809**

Fax: (407) 859-9599 Phone: (407) 859-8378  
Project: 24-3255

Customer ID: ECSSL77  
Customer PO: 24-3255  
Received: 06/22/09 11:30 AM  
EMSL Order: 190905784  
EMSL Proj:  
Analysis Date: 6/25/2009

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
35-SWM-33 190905784-0033	paper wrap	Silver/White Fibrous Heterogeneous	10% Cellulose 20% Glass	70% Non-fibrous (other)	None Detected

Analyst(s) \_\_\_\_\_  
Emily Baker (21)  
George Malone (11)

Joe Centifanti, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Beltsville 10768 Baltimore Avenue, Beltsville MD NVLAP Lab Code 200293-0

ICAL, Inc.

CHAIN OF CUSTODY

Third Party Billing requires written authorization from third party

EC9

EMSL-Bill to:

A:

Street:

40x #:

Box #:

City/State:

Orlando FL Zip

City/State:

Zip

Phone Results to:

Name:

Telephone #:

Project Name/Number:

Sofras@ecslimited.com  
jmerber@ecslimited.com  
Con

Fax Results to:

Name:

Fax #:

Purchase Order #:

24-325

TURNAROUND TIME

- 3 Hours, 6 Hours, 12 Hours, 24 Hours, 48 Hours, 72 Hours, 4 Days, 5 Days, 6-10 Days

SAMPLE MATRIX

- Air, Bulk, Soil, Wipe, Micro-Vac, Drinking Water, Wastewater, Chips, Other

ASBESTOS ANALYSIS

PCM - Air

- NIOSH 7400 (A) Issue 2: August 1994, OSHA w/TWA

TEM AIR

- ASHERA 40 CFR, Part 763 Subpart E, NIOSH 7402 Issue 2, EPA Level II

PLM - Bulk

- EPA 600/R-93/116, NY Stratified Point Count, California Air Resource Board (CARB) 435, NIOSH 9002, PLM NOB (Gravimetric) NYS 198.1, EPA Point Count (400 Points), EPA Point Count (1,000 Points), Standard Addition Point Count

SOILS

- EPA Protocol Qualitative, EPA Protocol Quantitative, EMSL MSD 9000 Method fibers/gram, Superfund EPA 540-R097-028 (dust generation)

TEM BULK

- Drop Mount (Qualitative), Chatfield SOP-1988-02, TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC

- ASTM D 5755-95 (Quantitative)

TEM WIPE

- ASTM D-6480-99, Qualitative

TEM WATER

- EPA 100.1, EPA 100.2, NYS 198.2

OTHER:

LEAD ANALYSIS

Flame Atomic Absorption

- Wipe, SW846-7420, ASTM, non ASTM, Soil, SW846-7420, Air, NIOSH 7082, Chips, SW846-7420 or AOAC 5.009 (974.02), Wastewater, SW 846-7420, TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption

- Air, NIOSH 7105, Wastewater, SW846-7421, Soil, SW846-7421, Drinking Water, EPA 239.2

ICP - Inductively Coupled Plasma

- Wipe, SW846-6010, ASTM, non ASTM, Soil, SW846-6010, Air, NIOSH 7300

MATERIALS ANALYSIS

- Full Particle Identification, Optical Particle Identification, Dust Mites and Insect Fragments, Particle Size & Distribution, Product Comparison, Paint Characterization, Failure Analysis, Corrosion Analysis, Glove-Box Containment Study, Petrographic Examination of Concrete, Portland Cement in Workplace Atmospheres (OSHA ID-143), Man Made Vitreous Fibers - MMVF's, Synthetic Fiber Identification, Other

MICROBIAL ANALYSIS

Air Samples

- Mold & Fungi by Air O Cell, Mold & Fungi by Agar Plate count & id, Bacterial Count and Gram Stain, Bacterial Count and Identification

Water Samples

- Total Coliforms, Fecal Coliforms, Escherichia Coli, Fecal Streptococcus, Legionella, Salmonella, Giardia and Cryptosporidium

Wipe and Bulk Samples

- Mold & Fungi - Direct Examination, Mold & Fungi - (Culture follow up to direct examination if necessary), Mold & Fungi - Culture (Count & ID), Mold & Fungi - Culture (Count only), Bacterial Count & Gram Stain, Bacterial Count & Identification (3 most prominent types), Other

IAQ ANALYSIS

- Nuisance Dust (NIOSH 0500 & 0600), Airborne Dust (PM10, TSP), Silica Analysis by XRD, Niosh 7500, HVAC Efficiency, Carbon Black, Airborne Oil Mist, Other

Client Sample # (S)

Relinquished:

Received:

Relinquished:

Received:

Date:

Date:

Date:

Date:

TOTAL SAMPLE #

Time:

Time:

Time:

Time:





SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME Air (L)	Area (Inches sq.)
35-JWM-1	12x12 White F78 Mastic	3	
2	↓	5	
3	↓	C-2	
4	White Plaster	74	
5	↓	3	
6	↓	3	
7	2x2 Pinkhole Ceiling Tile	3	
8	↓	3	
9	Tan Carpet Mastic	11	
10	↓	11	
11	↓	12	
12	Black Spray-On Water Proofing	3	
13	↓	3	
14	↓	1	
15	Residual Insulation	3	
16	↓	3	
17	↓	3	
18	White Plaster	C-2	
19	↓	1	
20	Tan Cove Base Mastic	12	
21	↓	C-2	
22	↓	3	
23	2x2 Pinkhole Ceiling Tile	C-2	
24	Stucco		
25			
26			
27			
28			
29			
30			

Relinquished: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished: \_\_\_\_\_ Date: 6/19/09 Time: KEB  
 Received: \_\_\_\_\_ Date: 6/16/09 Time: 095





**EMSL Analytical, Inc.**

212 South Wagner Road, Ann Arbor, MI 48103

Phone: (734) 668-6810 Fax: (734) 668-8532 Email: [annarborlab@emsl.com](mailto:annarborlab@emsl.com)

Attn: **Jason Marberry**  
**ECS, Ltd.**  
2815 Directors Row.Suite 500  
Orlando, FL 32809

Customer ID: ECSL77  
Customer PO:  
Received: 06/23/09 12:00 PM  
EMSL Order: 080901591

Fax: (407) 859-9599 Phone: (407) 859-8378

EMSL Proj:  
080901591

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
71/101-SJN-5 Roof 080901591-0023	Roofing	Gray/Black Fibrous Heterogeneous	5% Glass 1% Cellulose	94% Non-fibrous (other)	None Detected
71/101-SJN-6 Roof 080901591-0024	Roofing	Gray/Black Fibrous Heterogeneous	5% Glass 5% Cellulose	90% Non-fibrous (other)	None Detected
35-SJN-1 Roof 080901591-0025	Roofing	Gray/Black Fibrous Heterogeneous	3% Cellulose 3% Glass	94% Non-fibrous (other)	None Detected
35-SJN-2 Roof 080901591-0026	Roofing	Gray/Black Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected
35-SJN-3 Roof 080901591-0027	Roofing	Gray/Black Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
35-SJN-4 Roof 080901591-0028	Flashing	Black Fibrous Heterogeneous		97% Non-fibrous (other)	3% Chrysotile
35-SJN-5 Roof 080901591-0029	Flashing				Stop Positive (Not Analyzed)

Analyst(s)

Brian Walczak (34)

Brian Walczak, 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. Samples analyzed by EMSL Analytical, Inc. Ann Arbor 212 South Wagner Road, Ann Arbor MI NVLAP Lab Code 101048-4



**EMSL Analytical, Inc.**

212 South Wagner Road, Ann Arbor, MI 48103

Phone: (734) 668-6810 Fax: (734) 668-8532 Email: [annarborlab@emsl.com](mailto:annarborlab@emsl.com)

Attn: **Jason Marberry**  
**ECS, Ltd.**  
2815 Directors Row.Suite 500  
Orlando, FL 32809

Customer ID: EC SL77  
Customer PO:  
Received: 06/23/09 12:00 PM  
EMSL Order: 080901591

Fax: (407) 859-9599 Phone: (407) 859-8378

EMSL Proj:  
Analytical Lab Code: 02250001

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
35-SJN-6 Roof 080901591-0030	Flashing				Stop Positive (Not Analyzed)

Sample bags labeled 23-SJN-1-6 Roof. Sample bags followed.

Analyst(s)

*Brian Walczak (34)*

Brian Walczak, 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.  
Samples analyzed by EMSL Analytical, Inc. Ann Arbor 212 South Wagner Road, Ann Arbor MI NVLAP Lab Code 101048-4



# Asbestos Survey Field Data Sheet/ Chain of Custody Form

Lab Work Order ID: 080901591



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

EMSL ANALYTICAL, INC.  
5125 ADANSON STREET  
SUITE 900  
ORLANDO FL 32804  
PHONE: (407) 599-5887

ROSS 6/19 1 of 2

ECS Office Location: Orlando, FL  
(City, State of ECS Office)

Report via: email fax reg. mail lab-connect  
(circle)

Project Name: Bay Pines VA Sampled By: Jason Marberry GM Sample Date: 6/19/09  
Project Location: Bay Pines FL Project Manager: Bob McKinley Rpt. Addressed to Jason Marberry  
Building Number: roofs Project Number: 34:3255 Email@ for Rpt: jmarberry@ecslimited.com

\* 23 -  
labeled

Sample No.	Homogeneous Area	Sample Description	Quantity	Friable Y/N	Location	Accessibility/Potential for Damage
24-SJN-1		ROOFING / TOP, MIDDLE & BOTTOM LAYERS			ROOF EXTERIOR	
-2		↓			↓	
-3		↓			↓	
-4		FLASHING / TOP & BOTTOM LAYER			ROOF EXTERIOR	
-5		↓			↓	
-6		↓			↓	
36-SJN-1		ROOFING / 3 LAYERS			ROOF EXTERIOR	
-2		↓				
-3		↓				
-4		FLASHING			ROOF EXTERIOR	
-5		↓				
-6		↓				

Relinquished By: [Signature] Date: 6/19/09 Received By: \_\_\_\_\_ Date: \_\_\_\_\_  
Relinquished By: [Signature] Date: 6/24/09 Received By: \_\_\_\_\_ Date: \_\_\_\_\_  
UPS



ROOF 6/19 2002

080901591

107 Haddon Avenue, Westmont, New Jersey 08108

1-800-220-3675

http://www.emsl.com

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME Air (L)	Area (Inches sq.)
37-SJN-1 ROOF	ROOFING / ROOF EXTERIOR		
-2 ROOF	↓		
-3 ROOF			
-4 ROOF	FLASHING / ROOF EXTERIOR		
-5 ROOF	↓		
-6 ROOF			
71/101-SJN-1 ROOF	RITCH POCKET / ROOF EXTERIOR		
-2 ROOF	↓		
-3 ROOF			
-4 ROOF	ROOFING / ROOF EXTERIOR		
-5 ROOF	↓		
-6 ROOF			
35-SJN-1 ROOF	ROOFING / ROOF EXTERIOR		
-2 ROOF	↓		
-3 ROOF			
-4 ROOF	FLASHING / ROOF EXTERIOR		
-5 ROOF	↓		
-6 ROOF			

Relinquished: \_\_\_\_\_  
 Received: \_\_\_\_\_  
 Relinquished: \_\_\_\_\_  
 Received: \_\_\_\_\_

*Patrick M. Wilby*  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Date: 6/19/09 Time: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Date: 6/24/09 Time: \_\_\_\_\_



**EMSL Analytical, Inc.**

10768 Baltimore Avenue, Beltsville, MD 20705

Phone: (301) 937-5700 Fax: (301) 937-5701 Email: [beltsvillelab@emsl.com](mailto:beltsvillelab@emsl.com)

Attn: **Jason Marberry**  
**ECS, Ltd.**  
**2815 Directors Row.Suite 500**  
**Orlando, FL 32809**

Customer ID: ECSSL7  
Customer PO:  
Received: 07/22/09 9:00 AM  
EMSL Order: 190906955  
EMSL Proj:  
Analysis Date: 7/22/2009

Fax: (407) 859-9599 Phone: (407) 859-8378  
Project: 24-3255

**Asbestos Analysis of Bulk Material via EPA 600/R-93/116. Quantitation using 400 Point Count Procedure.**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
35-SWM-24 190906955-0001	STUCCO	Brown Non-Fibrous Heterogeneous	1.25% Wollastonite	97.25% Non-fibrous (other)	1.50% Chrysotile
35-SWM-25 190906955-0002	STUCCO				Stop Positive (Not Analyzed)
35-SWM-26 190906955-0003	STUCCO				Stop Positive (Not Analyzed)
35-SWM-27 190906955-0004	STUCCO				Stop Positive (Not Analyzed)
35-SWM-28 190906955-0005	STUCCO				Stop Positive (Not Analyzed)
35-SWM-29 190906955-0006	STUCCO				Stop Positive (Not Analyzed)
35-SWM-30 190906955-0007	STUCCO				Stop Positive (Not Analyzed)

Analyst(s) \_\_\_\_\_

George Malone (1)

Joe Centifonti, Laboratory Manager  
or other approved signatory

Samples analyzed by EMSL Analytical, Inc. Beltsville 10768 Baltimore Avenue, Beltsville MD NVLAP Lab Code 200293-0

Test Report PLMPTC-7.12.0 Printed:7/22/2009 12:01:05 PM

**THIS IS THE LAST PAGE OF THE REPORT.**

United States Department of Commerce  
National Institute of Standards and Technology



---

## Certificate of Accreditation to ISO/IEC 17025:2005

---

NVLAP LAB CODE: 200293-0

**EMSL Analytical, Inc.**  
Beltsville, MD

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

### **BULK ASBESTOS FIBER ANALYSIS**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated 18 June 2005).*

2009-01-01 through 2009-12-31

*Effective dates*



*Sally S. Bruce*  
For the National Institute of Standards and Technology

United States Department of Commerce  
National Institute of Standards and Technology



---

**Certificate of Accreditation to ISO/IEC 17025:2005**

---

NVLAP LAB CODE: 101048-4

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Ann Arbor, MI

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**BULK ASBESTOS FIBER ANALYSIS**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2009-07-01 through 2010-06-30

*Effective dates*



*Sally S. Bruce*  
For the National Institute of Standards and Technology

**APPENDIX B**  
**FIELD NOTES**

~~Wood Ceiling Tiles~~

Inspector \_\_\_\_\_ Building 35

Sample #	Sample Description	Location/Room #	Damage	Quantity	Notes
1	white ft tile	3			12x12
2	"	5			↓
3	"	C-2			
4	white plaster	7A			
5	"	3			
6	"	3			
7	Ceiling tile	3			2x2 Pin hole white
8	"	3			"
9	tan carpet mastic	11			
10	"	11			
11	"	12			
12	☞ spray on water	3			proofing (black)
13	"	3			"
14	"	1			"
15	insulation (residual)	3			
16	"	3			
17	"	3			
18	Plaster (white)	C-2			
19	"	1			
20	Base board mastic	12			tan
21	"	C-2			
22	"	3			
23	Ceiling tile	C-2			2x2 Pin hole
24	Ext Stucco				} Location noted on plan
25	"				
26	"				
27	"				
28	"				
29	"				
30	"				

Date 6/18/09

Page 1 of 2

Cementitious

