



ASBESTOS CONTAINING BUILDING MATERIAL REPORT BUILDING 13

**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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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 13 was a one-story Laundry Facility built in 1932-1933. Building 13 was approximately 11,997 square feet (ft²).

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 ft² or less.
- (2) At least five bulk samples shall be collected from each homogeneous area that is greater than 1,000 ft² but less than or equal to 5,000 ft².
- (3) At least seven bulk samples shall be collected from each homogeneous area that is greater than 5,000 ft².

(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 ft²
- (2) At least three bulk samples shall be collected from each homogeneous area that is greater than 100 ft²

A visual screening inspection was conducted by Florida Licensed Asbestos Inspectors throughout the entire Building 13 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 tile).

Summary of Positive ACM Samples

| Sample# | Sample Location | ACM Location | Description of Material | Percent and Type of Asbestos | Condition | Estimated Quantity | NESHAP Category |
|---------|------------------|--------------|--------------------------------------|------------------------------|-----------|--------------------|-----------------|
| 7 | 14 | Room 14 | 8-10" Mudded Pipe Fitting Insulation | 70% Chrysotile | Good | 100 LF | Friable |
| 31 | Exterior Windows | Exterior | Window Glazing | 3% Chrysotile | Good | 500 SF | Friable |
| 35 | Entire Exterior | Exterior | Exterior Stucco | 3% Chrysotile** | Good | 9,000 SF | Friable |

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 13

| Sample # | Room # | Area Designation | Description of Material | Asbestos % Type ^(a) | Estimated Quantity | Location | Condition | NESHAP Category |
|--------------------|--------|------------------|---------------------------------------|--------------------------------|--------------------|------------------|-----------|-----------------|
| 13JWM 1 | 12 | | 12" x 12" Beige Floor Tile & mast | NAD | | | | |
| 13JWM 2 | 12 | | 12" x 12" Beige Floor Tile & mast | NAD | | | | |
| 13JWM 3 | 12 | | 12" x 12" Beige Floor Tile & mast | NAD | | | | |
| 13JWM 1A | 12 | | Beige Mastic | NAD | | | | |
| 13JWM 2A | 12 | | Beige Mastic | NAD | | | | |
| 13JWM 3A | 12 | | Beige Mastic | NAD | | | | |
| 13JWM 4 | 12 | | 12" x 12" Red Mottled Floor Tile | NAD | | | | |
| 13JWM 5 | 12 | | 12" x 12" Red Mottled Floor Tile | NAD | | | | |
| 13JWM 6 | 12 | | 12" x 12" Red Mottled Floor Tile | NAD | | | | |
| 13JWM 4A | 12 | | White Mastic | NAD | | | | |
| 13JWM 5A | 12 | | White Mastic | NAD | | | | |
| 13JWM 6A | 12 | | White Mastic | NAD | | | | |
| 13JWM 7 | 14 | | 8-10 " Mudded Pipe Fitting Insulation | 70% Chrysotile | 100 Linear Feet | Room 14 | Good | Friable |
| 13JWM 8 | 14 | | 8-10 " Mudded Pipe Fitting Insulation | stop positive | 100 Linear Feet | Room 14 | Good | Friable |
| 13JWM 9 | 14 | | 8-10 " Mudded Pipe Fitting Insulation | stop positive | 100 Linear Feet | Room 14 | Good | Friable |
| 13JWM 10 | 14 | | 4" Black Baseboard & Mastic | NAD | | | | |
| 13JWM 11 | 14 | | 4" Black Baseboard & Mastic | NAD | | | | |
| 13JWM 12 | 14 | | 4" Black Baseboard & Mastic | NAD | | | | |
| 13JSJM 10A Mastic* | 14 | | White Mastic | NAD | | | | |
| 13JSJM 11A Mastic* | 14 | | White Mastic | NAD | | | | |
| 13JSJM 12A Mastic* | 14 | | White Mastic | NAD | | | | |
| 13JWM 13 | | hallway | 6" Black cb & mast | NAD | | | | |
| 13JWM 14 | | hallway | 6" Black Baseboard & Mastic | NAD | | | | |
| 13JWM 15 | | hallway | 6" Black Baseboard & Mastic | NAD | | | | |
| 13JWM 16 | 12 | | 4" Black Baseboard & Mastic | NAD | | | | |
| 13JWM 17 | 12 | | 4" Black Baseboard & Mastic | NAD | | | | |
| 13JWM 18 | 12 | | 4" Black Baseboard & Mastic | NAD | | | | |
| 13JWM 19 | 8 | | 1' x 1' Pinhole Punched Ceiling Tile | NAD | | | | |
| 13JWM 20 | 8 | | 1' x 1' Pinhole Punched Ceiling Tile | NAD | | | | |
| 13JWM 21 | 8 | | 1' x 1' Pinhole Punched Ceiling Tile | NAD | | | | |
| 13JWM 22 | 9 | men's room | 2' x 4' Pinhole Punched Ceiling Tile | NAD | | | | |
| 13JWM 23 | 9 | men's room | 2' x 4' Pinhole Punched Ceiling Tile | NAD | | | | |
| 13JWM 24 | 9 | men's room | 2' x 4' Pinhole Punched Ceiling Tile | NAD | | | | |
| 13JWM 25 | 3 | lounge | 4" Baseboard mastic | NAD | | | | |
| 13JWM 26 | 3 | lounge | 4" Baseboard mastic | NAD | | | | |
| 13JWM 27 | 3 | lounge | 4" Baseboard mastic | NAD | | | | |
| 13JWM 28 | 3 | lounge | 6" Baseboard mastic | NAD | | | | |
| 13JWM 29 | 3 | lounge | 6" Baseboard mastic | NAD | | | | |
| 13JWM 30 | 3 | lounge | 6" Baseboard mastic | NAD | | | | |
| 13JWM 31 | | Exterior | Window Glazing | 3% Chrysotile | 500 Square Feet | Exterior Windows | Good | Friable |
| 13JWM 32 | | Exterior | Window Glazing | stop positive | 500 Square Feet | Exterior Windows | Good | Friable |
| 13JWM 33 | | Exterior | Window Glazing | stop positive | 500 Square Feet | Exterior Windows | Good | Friable |
| 13JWM 34 | | Exterior | Exterior Stucco | NAD | 9000 Square Feet | Entire Exterior | Good | Friable |
| 13JWM 35 | | Exterior | Exterior Stucco | 3% Chrysotile ^(c,d) | 9000 Square Feet | Entire Exterior | Good | Friable |
| 13JWM 36 | | Exterior | Exterior Stucco | stop positive | 9000 Square Feet | Entire Exterior | Good | Friable |
| 13JWM 37 | | Exterior | Exterior Stucco | stop positive | 9000 Square Feet | Entire Exterior | Good | Friable |
| 13JWM 38 | | Exterior | Exterior Stucco | stop positive | 9000 Square Feet | Entire Exterior | Good | Friable |
| 13JWM 39 | | Exterior | Exterior Stucco | stop positive | 9000 Square Feet | Entire Exterior | Good | Friable |
| 13JWM 40 | | Exterior | Exterior Stucco | stop positive | 9000 Square Feet | Entire Exterior | Good | Friable |
| 13JWM 34A | | Exterior | Exterior Stucco- bottom layer | NAD | | | | |
| 13JWM 37A | | Exterior | Exterior Stucco- bottom layer | NAD | | | | |
| 13JWM 38A | | Exterior | Exterior Stucco- bottom layer | NAD | | | | |
| 13JWM 40A | | Exterior | Exterior Stucco- bottom layer | NAD | | | | |
| 13SRG 1 | | Roof | Membrane | NAD | | | | |

Asbestos Screening Results
VA Medical Center - Bay Pines, FL

Building 13

| <u>Sample #</u> | <u>Room #</u> | <u>Area Designation</u> | <u>Description of Material</u> | <u>Asbestos % Type^(a)</u> | <u>Estimated Quantity</u> | <u>Location</u> | <u>Condition</u> | <u>NESHAP Category</u> |
|-----------------|---------------|-------------------------|--------------------------------|--------------------------------------|---------------------------|-----------------|------------------|------------------------|
| 13SRG 2 | | Roof | Membrane | NAD | | | | |
| 13SRG 3 | | Roof | Membrane | N/A | | | | |
| 13SRG 4 | | Roof | Flashing | NAD | | | | |
| 13SRG 5 | | Roof | Flashing | NAD | | | | |
| 13SRG 6 | | Roof | Flashing | NAD | | | | |
| 13SRG 7 | | Roof | Pirch Pocket | NAD | | | | |
| 13SRG 8 | | Roof | Pirch Pocket | NAD | | | | |
| 13SRG 9 | | Roof | Pirch Pocket | NAD | | | | |

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 13-JWM-35 contained 8% 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
- * Resampled material analysis

PHOTOS



Building 13
Sample 7 – Muddled Pipe Fitting Insulation



Building 13
Sample 31 – Window Glazing



Building 13
Sample 35 – Exterior Stucco

DRAWINGS

APPENDIX A
LAB REPORTS

**EMSL Analytical, Inc.**

10768 Baltimore Avenue, Beltsville, MD 20705

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

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

Customer ID: ECSSL77
Customer PO: 24-3255
Received: 06/22/09 11:43 AM
EMSL Order: 190905786

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

EMSL Proj:
Analysis Date: 6/22/2009

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 |
| 13-JWM-1 190905786-0001 | 12x12 beige ft & mast | White/Beige Fibrous Heterogeneous | 2% Cellulose | 20% Ca Carbonate 78% Non-fibrous (other) | None Detected |
| tile | | | | | |
| 13-JWM-1A 190905786-0001A | 12x12 beige ft & mast | Tan/Beige Fibrous Heterogeneous | 2% Cellulose 3% Synthetic | 95% Non-fibrous (other) | None Detected |
| mastic | | | | | |
| 13-JWM-2 190905786-0002 | 12x12 beige ft & mast | White/Beige Non-Fibrous Heterogeneous | | 20% Ca Carbonate 80% Non-fibrous (other) | None Detected |
| tile | | | | | |
| 13-JWM-2A 190905786-0002A | 12x12 beige ft & mast | Tan/Beige Fibrous Heterogeneous | 2% Cellulose 3% Synthetic | 95% Non-fibrous (other) | None Detected |
| mastic | | | | | |
| 13-JWM-3 190905786-0003 | 12 x 12 beige ft & mast | Red/Gray Fibrous Heterogeneous | | 100% Non-fibrous (other) | None Detected |
| tile | | | | | |
| 13-JWM-3A 190905786-0003A | 12 x 12 beige ft & mast | Gray Non-Fibrous Heterogeneous | | 100% Non-fibrous (other) | None Detected |
| mastic | | | | | |

Analyst(s)

Alexis Turner (12)
George Malone (29)

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.

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

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EMSL Order: 190905786

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

Project: 24-3255

EMSL Proj:
Analysis Date: 6/22/2009

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 |
| 13-JWM-4 190905786-0004 | 12x12 red mottle ft & mast | Red/Gray Fibrous Heterogeneous | 2% Cellulose | 20% Ca Carbonate 78% Non-fibrous (other) | None Detected |
| tile | | | | | |
| 13-JWM-4A 190905786-0004A | 12x12 red mottle ft & mast | White/Gray Fibrous Heterogeneous | 2% Cellulose 3% Synthetic | 95% Non-fibrous (other) | None Detected |
| mastic | | | | | |
| 13-JWM-5 190905786-0005 | 12x12 red mott ft & mast | Red/Gray Non-Fibrous Heterogeneous | | 20% Ca Carbonate 80% Non-fibrous (other) | None Detected |
| tile | | | | | |
| 13-JWM-5A 190905786-0005A | 12x12 red mott ft & mast | White/Gray Fibrous Heterogeneous | 2% Cellulose | 98% Non-fibrous (other) | None Detected |
| mastic | | | | | |
| 13-JWM-6 190905786-0006 | 12x12 red mott ft & mast | Red Non-Fibrous Heterogeneous | | 100% Non-fibrous (other) | None Detected |
| tile | | | | | |
| 13-JWM-6A 190905786-0006A | 12x12 red mott ft & mast | Cream Non-Fibrous Heterogeneous | | 100% Non-fibrous (other) | None Detected |
| mastic | | | | | |

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Analysis Date: 6/22/2009

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 |
| 13-JWM-7 190905786-0007 | 8-10 " mudded pipe fitt ins | White Fibrous Heterogeneous | | 30% Ca Carbonate | 70% Chrysotile |
| 13-JWM-8 190905786-0008 | 8-10" mudd pipe fit ins | | | | Stop Positive (Not Analyzed) |
| 13-JWM-9 190905786-0009 | 8-10" mudd pipe fitt ins | | | | Stop Positive (Not Analyzed) |
| 13-JWM-10 190905786-0010 | 4" blk cb & mast | Yellow/Brown Fibrous Heterogeneous | 5% Cellulose 10% Wollastonite | 85% Non-fibrous (other) | None Detected |
| 13-JWM-11 190905786-0011 | 4" blk cb & mast | Yellow Fibrous Heterogeneous | 5% Cellulose 5% Synthetic 5% Wollastonite | 85% Non-fibrous (other) | None Detected |
| 13-JWM-12 190905786-0012 | 4" blk cb & mast | Brown/Cream Non-Fibrous Heterogeneous | | 100% Non-fibrous (other) | None Detected |
| 13-JWM-13 190905786-0013 | 6" cb & mast | Yellow/Gray Fibrous Heterogeneous | 2% Cellulose 3% Synthetic 10% Wollastonite | 85% Non-fibrous (other) | None Detected |

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Joe Centifonti, Laboratory Manager
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Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | <u>Non-Asbestos</u> | | <u>Asbestos</u> |
|-----------------------------|-------------------|---|---|--------------------------|-----------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 13-JWM-14 190905786-0014 | 6" cb & mast | White/Yellow Fibrous Heterogeneous | 5% Cellulose 5% Synthetic 5% Wollastonite | 85% Non-fibrous (other) | None Detected |
| 13-JWM-15 190905786-0015 | 6" cb & mast | Brown/Cream Non-Fibrous Heterogeneous | | 100% Non-fibrous (other) | None Detected |
| 13-JWM-16 190905786-0016 | 4" cb & mast | Brown Fibrous Heterogeneous | 5% Cellulose | 95% Non-fibrous (other) | None Detected |
| 13-JWM-17 190905786-0017 | 4" cb & mast | Brown Fibrous Heterogeneous | 5% Cellulose 10% Synthetic | 85% Non-fibrous (other) | None Detected |
| 13-JWM-18 190905786-0018 | 4" cb & mast | Brown Non-Fibrous Heterogeneous | | 100% Non-fibrous (other) | None Detected |
| 13-JWM-19 190905786-0019 | 1x1 ph punched ct | White/Tan Fibrous Heterogeneous | 45% Cellulose 35% Glass | 20% Non-fibrous (other) | None Detected |
| 13-JWM-20 190905786-0020 | 1x1 ph punched ct | White/Tan Fibrous Heterogeneous | 40% Cellulose 40% Glass | 20% Non-fibrous (other) | None Detected |

Analyst(s)

Alexis Turner (12)
George Malone (29)

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

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

Customer ID: ECSL77
Customer PO: 24-3255
Received: 06/22/09 11:43 AM
EMSL Order: 190905786

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

EMSL Proj:
Analysis Date: 6/22/2009

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 |
| 13-JWM-21 190905786-0021 | 1x1 ph punched ct | Gray/White Fibrous Heterogeneous | 50% Cellulose 40% Min. Wool | 10% Non-fibrous (other) | None Detected |
| 13-JWM-22 190905786-0022 | 2x4 ph fissure ct | White/Brown Fibrous Heterogeneous | 40% Cellulose 30% Glass | 10% Non-fibrous (other) 20% Perlite | None Detected |
| 13-JWM-23 190905786-0023 | 2x4 ph fissure ct | White/Brown Fibrous Heterogeneous | 35% Cellulose 30% Glass | 10% Non-fibrous (other) 25% Perlite | None Detected |
| 13-JWM-24 190905786-0024 | 2x4 ph fissure ct | Gray/White Fibrous Heterogeneous | 45% Cellulose 35% Min. Wool | 20% Non-fibrous (other) | None Detected |
| 13-JWM-25 190905786-0025 | 4" cb mastic | White/Yellow Fibrous Heterogeneous | 2% Cellulose 3% Synthetic | 95% Non-fibrous (other) | None Detected |
| 13-JWM-26 190905786-0026 | 4" cb mastic | Yellow Fibrous Heterogeneous | 2% Synthetic | 98% Non-fibrous (other) | None Detected |
| 13-JWM-27 190905786-0027 | 4" cb mastic | Gray/White Fibrous Heterogeneous | 5% Cellulose | 95% Non-fibrous (other) | None Detected |

Analyst(s)

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Project: **24-3255**

EMSL Proj:
Analysis Date: 6/22/2009

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

| Sample | Description | Appearance | <u>Non-Asbestos</u> | | <u>Asbestos</u> |
|-----------------------------|-----------------------|--|------------------------------|---------------------------------------|------------------------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 13-JWM-28 190905786-0028 | 6" BB mastic | Yellow/Brown Fibrous Heterogeneous | 5% Cellulose 2% Synthetic | 93% Non-fibrous (other) | None Detected |
| 13-JWM-29 190905786-0029 | 6" BB mastic | Yellow/Brown Fibrous Heterogeneous | 5% Cellulose 2% Synthetic | 93% Non-fibrous (other) | None Detected |
| 13-JWM-30 190905786-0030 | 6" BB Mastic | Brown Non-Fibrous Heterogeneous | | 100% Non-fibrous (other) | None Detected |
| 13-JWM-31 190905786-0031 | Ext Window Glazing | White/Gray Fibrous Heterogeneous | 3% Cellulose | 94% Non-fibrous (other) | 3% Chrysotile |
| 13-JWM-32 190905786-0032 | Ext Window Glazing | | | | Stop Positive (Not Analyzed) |
| 13-JWM-33 190905786-0033 | Ext Window Glazing | | | | Stop Positive (Not Analyzed) |
| 13-JWM-34 190905786-0034 | Ext Textured Stucco | Yellow Non-Fibrous Homogeneous | | 55% Non-fibrous (other) 45% Quartz | None Detected |

top layer

Analyst(s)

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Project: **24-3255**

EMSL Proj:
Analysis Date: 6/22/2009

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 |
| 13-JWM-34A 190905786-0034A | Ext Textured Stucco | Gray Non-Fibrous Heterogeneous bottom layer | | 50% Non-fibrous (other) 50% Quartz | None Detected |
| 13-JWM-35 190905786-0035 | Ext Textured Stucco | Yellow Fibrous Heterogeneous | | 52% Non-fibrous (other) 40% Quartz | 8% Chrysotile |
| 13-JWM-36 190905786-0036 | Ext Textured Stucco | | | | Stop Positive (Not Analyzed) |
| 13-JWM-37 190905786-0037 | Ext Textured Stucco | | | | Stop Positive (Not Analyzed) |
| | | top layer | | | |
| 13-JWM-37A 190905786-0037A | Ext Textured Stucco | Gray Fibrous Heterogeneous bottom layer | 5% Synthetic | 50% Non-fibrous (other) 45% Quartz | None Detected |
| 13-JWM-38 190905786-0038 | Ext Textured Stucco | | | | Stop Positive (Not Analyzed) |
| | | top layer | | | |

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

Project: 24-3255

EMSL Proj:
Analysis Date: 6/22/2009

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

| Sample | Description | Appearance | <u>Non-Asbestos</u> | | <u>Asbestos</u> |
|-------------------------------|---------------------|--------------------------------------|---------------------|--------------------------|------------------------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 13-JWM-38A 190905786-0038A | Ext Textured Stucco | Gray Non-Fibrous Heterogeneous | 15% Synthetic | 85% Non-fibrous (other) | None Detected |
| bottom layer | | | | | |
| 13-JWM-39 190905786-0039 | Ext Text Stucco | | | | Stop Positive (Not Analyzed) |
| top layer | | | | | |
| 13-JWM-40 190905786-0040 | Ext Text Stucco | | | | Stop Positive (Not Analyzed) |
| top layer | | | | | |
| 13-JWM-40A 190905786-0040A | Ext Text Stucco | Gray Non-Fibrous Heterogeneous | | 100% Non-fibrous (other) | None Detected |
| bottom layer | | | | | |

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

CAL, Inc.

CHAIN OF CUSTODY

Third Party Billing requires written
authorization from third party

At:

Box #:

City/State:

Phone Results to:

Name:

Telephone #:

Project Name/Number:

EMSL-Bill to:

Street:

Box #:

City/State:

Fax Results to:

Name:

Fax #:

Purchase Order #:

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

☐ AHERA 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:

Page 1 of 2



107 Haddon Avenue, Westmont, New Jersey 08108

1-800-220-3675

http://www.emsl.com

1/2

| SAMPLE NUMBER | SAMPLE DESCRIPTION/LOCATION | VOLUME Air (L) | Area (Inches sq.) |
|---------------|---------------------------------------|----------------|-------------------|
| 13-JWM-1 | 12x12 Berge Ft & Mastic | Rm 12 | |
| 2 | ↓ ↓ ↓ | ↓ | |
| 3 | | | |
| 4 | 12x12 Red Middle Ft & Mastic | ↓ | |
| 5 | ↓ ↓ ↓ | ↓ | |
| 6 | | | |
| 7 | 8"-10" Middle Pipe Fitting Insulation | Rm 14 | |
| 8 | ↓ ↓ ↓ | ↓ | |
| 9 | | | |
| 10 | 4" Black Cove Base & Mastic | ↓ | |
| 11 | ↓ ↓ | ↓ | |
| 12 | | | |
| 13 | 6" Cove Base & Mastic - Hallway | ↓ | |
| 14 | ↓ ↓ | ↓ | |
| 15 | | | |
| 16 | 4" Cove Base & Mastic | Rm 12 | |
| 17 | ↓ ↓ ↓ | ↓ | |
| 18 | | | |
| 19 | 1x1 Pinhole Punched CT | Rm 8 | |
| 20 | ↓ ↓ ↓ | ↓ | |
| 21 | | | |
| 22 | 2x4 Pinhole Fissure CT | Rm 9 | |
| 23 | ↓ ↓ | ↓ | |
| 24 | | | |
| 25 | 4" Cove Base Mastic | Lounge 3 | |
| 26 | ↓ ↓ | ↓ | |
| 27 | | | |

Relinquished:

Received:

Relinquished:

Received:

Date:

Date:

Date:

Date:

Time:

Time:

Time:

Time:

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2815 Directors Row. Suite 500
Orlando, FL 32809

Fax: (407) 859-9599

Phone: (407) 859-8378

Project: **24-3255**

Customer ID: ECSL77
Customer PO: 24-3255
Received: 06/22/09 10:45 AM
EMSL Order: 190905778
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 |
| 13SRG-1 190905778-0001 | Roof Membrane | Black Fibrous Heterogeneous | 5% Cellulose 5% Glass | 85% Non-fibrous (other) 5% Quartz | None Detected |
| 13SRG-2 190905778-0002 | Roof Membrane | Black Fibrous Heterogeneous | 5% Cellulose | 85% Non-fibrous (other) 10% Quartz | None Detected |
| 13SRG-3 190905778-0003 | Roof Membrane | Black Fibrous Heterogeneous | 10% Cellulose | 90% Non-fibrous (other) | None Detected |
| 13SRG-4 190905778-0004 | Roof Flashing | Silver/Black Fibrous Heterogeneous | 25% Cellulose 15% Glass 15% Synthetic | 35% Non-fibrous (other) 10% Quartz | None Detected |
| 13SRG-5 190905778-0005 | Roof Flashing | Silver/Black Fibrous Heterogeneous | 10% Cellulose 15% Glass 20% Synthetic | 45% Non-fibrous (other) 10% Quartz | None Detected |
| 13SRG-6 190905778-0006 | Roof Flashing | Black/Silver Fibrous Heterogeneous | 30% Synthetic | 70% Non-fibrous (other) | None Detected |
| 13SRG-7 190905778-0007 | Pitch Pocket Material | Silver/Black Fibrous Heterogeneous | 20% Cellulose 5% Wollastonite | 75% Non-fibrous (other) | None Detected |

Analyst(s)

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George Malone (36)

Joe Centifanti, Laboratory Manager
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| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|---------------------------|-----------------------|--|--|---------------------------------------|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 13SRG-8 190905778-0008 | Pitch Pocket Material | Silver/Black Fibrous Heterogeneous | 25% Cellulose 5% Wollastonite | 70% Non-fibrous (other) | None Detected |
| 13SRG-9 190905778-0009 | Pitch Pocket Material | Black/Silver Non-Fibrous Heterogeneous | 20% Cellulose | 80% Non-fibrous (other) | None Detected |
| 12SRG-1 190905778-0010 | Roof Flashing | Silver/Black Fibrous Heterogeneous | 20% Glass 25% Synthetic 10% Wollastonite | 30% Non-fibrous (other) 15% Quartz | None Detected |
| 12SRG-2 190905778-0011 | Roof Flashing | Silver/Black Fibrous Heterogeneous | 20% Glass 25% Synthetic 10% Wollastonite | 35% Non-fibrous (other) 10% Quartz | None Detected |
| 12SRG-3 190905778-0012 | Roof Flashing | Black/Silver Fibrous Heterogeneous | 20% Glass 30% Synthetic | 50% Non-fibrous (other) | None Detected |
| 12SRG-4 190905778-0013 | Roof Membrane | Black/Brown Fibrous Heterogeneous | 10% Synthetic | 90% Non-fibrous (other) | None Detected |
| 12SRG-5 190905778-0014 | Roof Membrane | Black/Brown Fibrous Heterogeneous | 7% Synthetic | 93% Non-fibrous (other) | None Detected |

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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

Box #:

City/State:

Phone Results to:

Name:

Telephone #:

Project Name/Number:

EMSL-Bill to:

Street:

Box #:

City/State:

Zip

Fax Results to:

Name:

Fax #:

Purchase Order #:

24-3225

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

- ☐ AHERA 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 9062
☐ 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

TEM WATER

- ☐ Qualitative
☐ 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:

Page 1 of 2



107 Haddon Avenue, Westmont, New Jersey 08108

1-800-220-3675

http://www.emsl.com

1/2

| SAMPLE NUMBER | SAMPLE DESCRIPTION/LOCATION | VOLUME Air (L) | Area (Inches sq.) |
|---------------|-----------------------------|----------------|-------------------|
| 13-SRG-1 | Roof Membrane | | |
| 2 | ↓ | | |
| 3 | ↓ | | |
| 4 | Roof Flashing | | |
| 5 | ↓ | | |
| 6 | ↓ | | |
| 7 | Pitch Pocket Material | | |
| 8 | ↓ | | |
| 9 | ↓ | | |
| 12-SRG-1 | Roof Flashing | | |
| 2 | ↓ | | |
| 3 | ↓ | | |
| 4 | Roof Membrane | | |
| 5 | ↓ | | |
| 6 | ↓ | | |
| 7 | Aluminum Flashing Caulk | | |
| 8 | ↓ | | |
| 9 | ↓ | | |
| 10 | Pitch Pocket Material | | |
| 11 | ↓ | | |
| 12 | ↓ | | |
| 2-7 SRG | Roof Flashing | | |
| 2 | ↓ | | |
| 3 | ↓ | | |
| 4 | Roof Membrane | | |
| 5 | ↓ | | |
| 6 | ↓ | | |

Relinquished:
Received:
Relinquished:
Received:

Date:
Date:
Date:
Date:

6/17/09

Time:
Time:
Time:
Time:

**EMSL Analytical, Inc.**

5125 Adanson Street, Suite 900, Orlando, FL 32804

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

Attn: **Steve Geraci**
ECS, Ltd.
2815 Directors Row. Suite 500
Orlando, FL 32809

Fax: (407) 859-9599
Project: **Bay Pines VA 24:3255**

Phone: (407) 859-8378

Amended Additional results ✓
OK
COB


**Asbestos Analysis of Bulk Materials via EPA 6
Light Microscopy**

| Sample | Description | Appearance | % Fibrous | % Non-Fibrous | Asbestos % Type |
|--|-------------------|---|---------------|-------------------------|--------------------|
| 12 SJM 60A-Floor Tile 340904417-0025 | Floor Tile Mastic | Brown Non-Fibrous Heterogeneous | 4% Cellulose | 94% Non-fibrous (other) | 2% Chrysotile |
| 12 SJM 60A-Mastic 340904417-0025A | Floor Tile Mastic | Brown/Black Non-Fibrous Heterogeneous | 10% Cellulose | 90% Non-fibrous (other) | None Detected |
| 12 SJM 62A-Floor Tile 340904417-0026 | Floor Tile Mastic | Brown Non-Fibrous Heterogeneous | 4% Cellulose | 90% Non-fibrous (other) | 6% Chrysotile |
| 12 SJM 62A-Mastic 340904417-0026A | Floor Tile Mastic | Black Non-Fibrous Heterogeneous | 5% Cellulose | 95% Non-fibrous (other) | None Detected |
| 12 SJM 64A-Floor Tile 340904417-0027 | Floor Tile Mastic | Brown Non-Fibrous Heterogeneous | 4% Cellulose | 90% Non-fibrous (other) | 6% Chrysotile |
| 12 SJM 64A-Mastic 340904417-0027A | Floor Tile Mastic | Black Non-Fibrous Heterogeneous | 10% Cellulose | 90% Non-fibrous (other) | None Detected |
| 13 SJM 10A-Mastic 340904417-0028 | 4" BLK CB Mastic | White Non-Fibrous Heterogeneous | 5% Cellulose | 95% Non-fibrous (other) | None Detected |

Report Amended: 7/29/2009 10:04:55 AM Replaces the Initial Report . Reason Code: Data Entry Error-Change to Sample ID

Analyst(s)

Randy Pruitt (84)


Blanca Cortes, Ph.D., 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. Orlando 5125 Adanson Street, Suite 900, Orlando FL NVLAP Lab Code 101151-0

**EMSL Analytical, Inc.**

5125 Adanson Street, Suite 900, Orlando, FL 32804

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Attn: **Steve Geraci**
ECS, Ltd.
2815 Directors Row.Suite 500
Orlando, FL 32809

Fax: (407) 859-9599
Project: **Bay Pines VA 24:3255**

Phone: (407) 859-8378

Customer ID: ECSL77
Customer PO:
Received: 07/14/09 12:26 PM
EMSL Order: 340904417
EMSL Proj:
Analysis Date: 7/15/2009


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 |
| 13 SJM 11A-Mastic 340904417-0029 | 4" BLK CB Mastic | White Non-Fibrous Heterogeneous | 5% Cellulose | 95% Non-fibrous (other) | None Detected |
| 13 SJM 12A-Mastic 340904417-0030 | 4" BLK CB Mastic | White Non-Fibrous Heterogeneous | 5% Cellulose | 95% Non-fibrous (other) | None Detected |
| 17 SJM 13A 340904417-0031 | BLK Faceboard Mastic | Black Non-Fibrous Heterogeneous | 2% Cellulose | 98% Non-fibrous (other) | None Detected |
| 19 SJM 4 A-Floor Tile 340904417-0032 | Floor Tile Mastic | White Non-Fibrous Heterogeneous | 6% Cellulose | 90% Non-fibrous (other) | 4% Chrysotile |
| 19 SJM 4 A-Mastic 340904417-0032A | Floor Tile Mastic | Yellow Non-Fibrous Heterogeneous | 10% Cellulose | 90% Non-fibrous (other) | None Detected |
| 19 SJM 6 A-Floor Tile 340904417-0033 | Floor Tile Mastic | White Non-Fibrous Heterogeneous | 6% Cellulose | 90% Non-fibrous (other) | 4% Chrysotile |
| 19 SJM 6 A-Mastic 340904417-0033A | Floor Tile Mastic | Yellow Non-Fibrous Heterogeneous | 10% Cellulose | 90% Non-fibrous (other) | None Detected |

Report Amended: 7/29/2009 10:04:55 AM Replaces the Initial Report . Reason Code: Data Entry Error-Change to Sample ID

Analyst(s)

Randy Pruitt (84)


Blanca Cortes, Ph.D., 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. Orlando 5125 Adanson Street, Suite 900, Orlando FL NVLAP Lab Code 101151-0

**EMSL Analytical, Inc.**

10768 Baltimore Avenue, Beltsville, MD 20705

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

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

Customer ID: ECSL77
Customer PO:
Received: 07/22/09 9:00 AM
EMSL Order: 190906984

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

EMSL Proj:
Analysis Date: 7/22/2009

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 |
| 13-JWM-35 190906984-0001 | EXT TEXT STUCCO | Yellow Fibrous Heterogeneous | | 97.00% Non-fibrous (other) | 3.00% Chrysotile |
| 13-JWM-36 190906984-0002 | EXT TEXT STUCCO | | | | Stop Positive (Not Analyzed) |
| 13-JWM-37 190906984-0003 | EXT TEXT STUCCO | | | | Stop Positive (Not Analyzed) |
| 13-JWM-38 190906984-0004 | EXT TEXT STUCCO | | | | Stop Positive (Not Analyzed) |
| 13-JWM-39 190906984-0005 | EXT TEXT STUCCO | | | | Stop Positive (Not Analyzed) |
| 13-JWM-40 190906984-0006 | EXT TEXT STUCCO | | | | Stop Positive (Not Analyzed) |

Analyst(s)

Alexis Turner (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 1:08:01 PM

THIS IS THE LAST PAGE OF THE REPORT.

1

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101151-0

EMSL Analytical, Inc.
Orlando, FL

*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 Communiqué dated January 2009).*

2009-07-01 through 2010-06-30

Effective dates



Sally A. 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: 200293-0

EMSL Analytical, Inc.
Beltsville, MD

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
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*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

APPENDIX B
FIELD NOTES

Inspector JWM
SRG Building 13

| Sample # | Sample Description | Location/Room # | Damage | Quantity | Notes |
|----------|---------------------|-----------------|--------|----------|-------|
| 1 | 12x12 Beige FT | 12 | no | | |
| 2 | 8 Mastic | 12 | ↓ | | |
| 3 | ↓ | 12 | ↓ | | |
| 4 | 12x12 Red Mottled | 12 | no | | |
| 5 | FT. 8 Mastic | 12 | ↓ | | |
| 6 | ↓ | 12 | ↓ | | |
| 7 | 5-10" muddled | 14 | no | | water |
| 8 | pipe fitting | 14 | ↓ | | ↓ |
| 9 | isolation | 14 | ↓ | | |
| 10 | 4" black baseboard | 14 | no | | |
| 11 | and mastic | 14 | ↓ | | |
| 12 | ↓ | 14 | ↓ | | |
| 13 | 6" baseboard | hallway | no | | |
| 14 | and mastic | ↓ | ↓ | | |
| 15 | ↓ | ↓ | ↓ | | |
| 16 | 4" baseboard | 12 | poor | | |
| 17 | mastic | ↓ | ↓ | | |
| 18 | ↓ | ↓ | ↓ | | |
| 19 | 1x1 pinhole | Room 6 | no | | |
| 20 | punch CT. | ↓ | ↓ | | |
| 21 | ↓ | ↓ | ↓ | | |
| 22 | 2x4 pinhole fissure | Room 9 | no | | |
| 23 | CT. | men's | ↓ | | |
| 24 | ↓ | Room | ↓ | | |
| 25 | 4" baseboard | Lounge 3 | no | | |
| 26 | mastic | ↓ | ↓ | | |
| 27 | ↓ | ↓ | ↓ | | |
| 28 | 6" Baseboard | Corridor 3 | poor | | |
| 29 | Mastic | ↓ | ↓ | | |
| 30 | ↓ | ↓ | ↓ | | |

Date _____

Page 1 of 2

