AVANCO ENVIRONMENTAL, INCORPORATED Consulting and Testing Services

Southwest Office 2519 Glenda Lane Dallas, Texas 75229 Ph: (972) 620-7306 Fx: (972) 620-0806 Southeast Office 7920 N.W. 210th Street Micanopy, Florida 32667 Ph: (352) 591-8595 Fx: (352) 591-9810

ASBESTOS INSPECTION REPORT

Subject Property: Orlando V A Healthcare Center-Building No. 502 Boiler & Generator

Plant

Property Location: 5201 Raymond Street – Orlando, Florida 32803

Project Number: A-0640-07

Date of Inspection: July 5, 2007

AHERA Accredited Inspector: Gary Lunsford

1.0. INSPECTION

1.1. General

Avanco Environmental, Inc. (AEI) was retained by The Veterans Health Administration to conduct an inspection for the presence of suspect asbestos containing materials (ACM). The inspection was conducted on July 5, 2007.

The subject site building consists of a one-story commercial structure currently in use as the boiler and generator plant. It is approximately 8,253 square feet (SF) in size. The site building was constructed in approximately 1980. The foundation is concrete slab on grade. The exterior walls are concrete block and the roof is modified bitumen.

The identified materials are suspect based upon the historic use of asbestos in similar building materials and products. The asbestos survey included a visual inspection of the suspect materials, a limited sampling program and laboratory analysis of sampled suspect materials. The analytical results will establish the presence or absence of asbestos in the materials sampled.

1.2. Sampling Parameters and Limitations

AEI's approach to the inspection was to locate all suspect asbestos containing materials by physically accessing each area(s) and collecting samples to verify the continued construction use of uniform (homogeneous) building materials.

Three (3) bulk samples were collected from each homogeneous building material.

AEI collected a total of thirty six (36) suspect asbestos bulk samples from the structure.

Samples were obtained by physically removing a small portion (approximately one (1) square inch) of the material using a sharp instrument. All layers of the material samples were penetrated, and the disturbance of the adjacent material was kept to a minimum. Each sample was placed in a sealed container, and identified with the sample number and location. All samples were logged into the field notebook which contains a brief description of the sample area(s), sampler identification, date of inspection, and a description of the material sampled.

2.0. ANALYTICAL PROCEDURES

Asbestos

The suspect asbestos containing material samples were submitted to Steve Moody Micro Services, Inc., in Farmers Branch, Texas. (NVLAP Lab # 102056 / TDH lic. #30-0084) for analysis by Polarized Light Microscopy (PLM). The bulk samples were prepared and analyzed in accordance with NVLAP and the Environmental Protection Agency (EPA) 40 CFR, Ch. 1, Pt. 763, Subpt. F, App.A.

3.0 ANALYTICAL RESULTS

From the thirty six (36) collected from the site, asbestos was detected in two (2) homogenous building material (refer to Table I). The complete laboratory analytical report is presented in Appendix A of this report.

TABLE I
POSITIVE SAMPLES

Sample#	Sample Description / Location	Approximate Quantities	ACM	Asbestos Content
502-25, 26 & 27	Equalizer Tank Insulation Mastic (White) / Above Office	150 sq. ft.	Category I	10% Mastic Only
500-132	Pipe Insulation Mastic (White) / Utility Tunnel - Building #500 Chill Water Supply and Return Piping	660 sq. ft. (Joints)	Category I	10% Mastic Only

The following is the EPA definition for Category I nonfriable ACM:

Category I nonfriable asbestos containing material (ACM) means asbestos containing packing, gaskets, resilient floor coverings and asphalt roofing products containing more than 1 percent asbestos as determined using the method specified above. Under normal circumstances, Category I

nonfriable materials need not be removed prior to demolition, because generally these materials do not release significant amounts of asbestos fibers, even when damaged. This is not, however, a hard and fast rule. If Category I materials are expected to become friable or are in poor condition, they must be removed prior to demolition. Nonfriable ACM that has been damaged during a demolition operation such that some portions of the material are crumbled, pulverized or reduced to powder is covered by the National Emissions Standards for Hazardous Air Pollutants (NESHAP) if the facility contains more than the threshold amount (160 SF / 260 LF) becomes regulated asbestos containing material (RACM).

4.0 CONCLUSIONS / RECOMMENDATIONS

CONCLUSIONS

AEI concludes that according to the EPA and Occupational Safety and Health Administration (OSHA), the results of the asbestos inspection indicate asbestos containing materials are present on the building #502 chilled water supply and return piping and equalizer tank of the subject property. At the time of the survey these materials were in good condition.

RECOMMENDATIONS

It is our recommendation that the ACM identified in this survey be removed by a Florida licensed asbestos abatement contractor prior to renovation or demolition activities that may potentially impact or disturb these materials.

Hidden materials may be exposed during demolition activities that were not identified during the course of the survey. Any materials found during demolition activities similar to the ACM identified in this survey should be assumed to be similar in hazard content.

AEI recommends the asbestos containing materials be handled in accordance with a specifically designed Operations &Maintenance (O&M) plan for each type of ACM identified in the facility. The O&M plan must be implemented as required by EPA regulations whenever a facility contains ACM that maybe disturbed by employees or sub-contractors.

5.0 LIMITATIONS

This report is prepared for the exclusive use of The Veterans Health Administration and/or its assignees to aid in the environmental assessment of the above referenced facility. AEI performed services in a manner consistent with the level of care and expertise exercised by members of the environmental auditing and risk assessment profession.

No part of this report may be copied except in full and without prior written permission from Avanco Environmental, Inc. The intent of this statement is to ensure that information extrapolated from this report is in its full and proper context.

If you have any questions regarding the contents of this report or need additional information, please contact our office.

This report submitted by Gary Lunsford on July 31, 2007.

Gary Lunsford, CIAQM, REPA Avanço Environmental, Inc.

Asbestos Business License # ZA0000303

This report certified by:

V. Douglas Browning P.E.

Licensed Asbestos Consultant #EA0000029

APPENDIX A

Laboratory Report

PLM Summary Report

Steve Moody Micro Services, Inc. 2051 Valley View Lane

Farmers Branch, TX 75234 (Phone 972-241-8460)

NVLAP Lab No. 102056 TDH License No. 30-0084

Client:

Avanco Environmental, Inc. - Micanopy, FL

Lab Job No. : x7B-06402

Project:

Orlando VA Healthcare Center, 5201 Raymond St, Bldg 502

Report Date: 07/11/2007

Project #:

A-0640-07

Sample Date: 07/05/2007

Identification:

Asbestos, Bulk Sample Analysis

Test Method:

Polarized Light Microscopy / Dispersion Staining (PLM/DS)

EPA Method 600 / R-93 / 116

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On 7/10/2007, thirty six (36) bulk material samples were submitted by Gary Lunsford of Avanco Environmental, Inc. - Micanopy, FL for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
502-01	2' x 2' Ceiling Tile (White, Non-Directional), Office	None Detected - Acoustic Tile
502-02	2' x 2' Ceiling Tile (White, Non-Directional), Office	None Detected - Acoustic Tile
502-03	2' x 2' Ceiling Tile (White, Non-Directional), Office	None Detected - Acoustic Tile
502-04	Drywall, Office at Entrance	None Detected - Drywall Material
502-05	Drywall, Office at North Wall	None Detected - Drywall Material
502-06	Drywall, Office at South Wall	None Detected - Drywall Material
502-07	Joint Compound, Office at Entrance	None Detected - Joint Compound
502-08	Joint Compound, Office at North Wall	None Detected - Joint Compound
502-09	Joint Compound, Office at South Wall	None Detected - Joint Compound
502-10	12" x 12" Floor Tile (White with Gray Flecks), Office	None Detected - Floor Tile None Detected - Yellow Mastic
502-11	12" x 12" Floor Tile (White with Gray Flecks), Office	None Detected - Floor Tile None Detected - Yellow Mastic
502-12	12" x 12" Floor Tile (White with Gray Flecks), Restroom	None Detected - Floor Tile None Detected - Yellow Mastic
502-13	Cove Base (Black), Office	None Detected - Cove Base None Detected - Yellow Mastic
502-14	Cove Base (Black), Office	None Detected - Cove Base None Detected - Yellow Mastic
502-15	Cove Base (Black), Restroom	None Detected - Cove Base None Detected - Yellow Mastic
502-16	Emergency Generator Exhaust Stack Insulation, Emergency Generator #1	None Detected - Thermal Insulation None Detected - Glass Fiber Wrap None Detected - Silver Paint

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Report Date: 07/11/2007

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Asbestos, Bulk Sample Analysis

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Polarized Light Microscopy / Dispersion Staining (PLM/DS)

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Sample Number	Client Sample Description / Location	Asbestos Content
502-17	Emergency Generator Exhaust Stack Insulation, Emergency Generator #2	None Detected - Thermal Insulation None Detected - Glass Fiber Wrap None Detected - Silver Paint
502-18	Emergency Generator Exhaust Stack Insulation, Emergency Generator #3	None Detected - Thermal Insulation None Detected - Glass Fiber Wrap None Detected - Silver Paint
502-19	Pipe Insulation (Foam) Mastic, Chiller #2	None Detected - Glass Foam None Detected - Black Mastic
502-20	Pipe Insulation (Foam) Mastic, Cold Water Pump #1 Supply	None Detected - Glass Foam None Detected - Black Mastic
502-21	Pipe Insulation (Foam) Mastic, Cold Water Pump #1 Return	None Detected - Glass Foam No Black Mastic Present
502-22	Pipe Mastic (White), Cold Water Pump #2	None Detected - Glass Foam None Detected - Paper / Foil Wrap None Detected - White Mastic
502-23	Pipe Mastic (White), Cold Water Pump #3	None Detected - Glass Foam None Detected - White Mastic
502-24	Pipe Mastic (White), Cold Water Pump #3 Supply	None Detected - Glass Foam None Detected - White Mastic
502-25	Tank Insulation (White, Equalizer), Above Office	None Detected - Yellow Insulation None Detected - Paper / Foil Wrap None Detected - Grey Thermal None Detected - Glass Fiber Wrap 10% Chrysotile - White Mastic
502-26	Tank Insulation (White, Equalizer), Above Office	None Detected - Thermal Insulation None Detected - Glass Fiber Wrap 10% Chrysotile - White Mastic

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Identification:

Asbestos, Bulk Sample Analysis

Test Method:

Polarized Light Microscopy / Dispersion Staining (PLM/DS)

EPA Method 600 / R-93 / 116

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Sample Number	Client Sample Description / Location	Asbestos Content
502-27	Tank Insulation (White, Equalizer), Above Office	None Detected - Yellow Insulation None Detected - Paper / Foil Wrap None Detected - Grey Thermal None Detected - Glass Fiber Wrap 10% Chrysotile - White Mastic
502-28	Modified Bitumen Roofing, North	None Detected - Roofing Material
502-29	Modified Bitumen Roofing, South	None Detected - Roofing Material
502-30	Modified Bitumen Roofing, at Exhaust Flue #1	None Detected - Roofing Material
502-31	Exterior Caulk at Cooling Tower Wall, Wall Expansion Joint	None Detected - Caulking
502-32	Exterior Caulk at Cooling Tower Wall, Wall Expansion Joint	None Detected - Caulking
502-33	Exterior Caulk at Cooling Tower Wall, Wall Expansion Joint	None Detected - Caulking
502-34	Roof Coating (Silver), Metal Roof Flashing Over Foam	None Detected - Foam Insulation None Detected - Sealant None Detected - Black Mastic
502-35	Roof Coating (Silver), Metal Roof Flashing Over Foam	None Detected - Foam Insulation None Detected - Sealant None Detected - Black Mastic
502-36	Roof Coating (Silver), Metal Roof Flashing Over Foam	None Detected - Foam Insulation None Detected - Sealant None Detected - Black Mastic

These samples were analyzed by layers. Quantification, unless otherwise noted, is performed by calibrated visual ted, is performed by calibrated visual tes only to the samples tested. These Government. Accredited by the ber Analysis under Lab Code 102056.

Approved Signatory: estimate. Results may not be reproduced except in full. This test report relates only to the samples tested. These test results do not imply endorsement by NVLAP or any agency of the U.S. Government. Accredited by the National Voluntary Laboratory Accreditation Program for Bulk Asbestos Fiber Analysis under Lab Code 102056.

Analyst(s): Heather Deines

Lab Manager: Bruce Crabb

Lab Director: Steve Moody

Thank you for choosing Steve Moody Micro Services

PLM Detail Report

TDH License No. 30-0084

2051 Valley View Lane

Farmers Branch, TX 75234

Supplement to PLM Summary Report

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
502-01	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	07/11	HD
			Mineral Wool Fibers	30%		
,			Perlite	20%		-
502-02	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	07/11	HD
			Mineral Wool Fibers	30%		
			Perlite	20%		
502-03	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	07/11	HD
			Mineral Wool Fibers	30%		
			Perlite	20%		
502-04	Drywall Material (Off-White)	100%	Glass Wool Fibers	2%	07/11	HD
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
502-05	Drywall Material (Off-White)	90%	Glass Wool Fibers	2%	07/11	HD
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper Facing (Tan)	10%	Cellulose Fibers	100%		
502-06	Drywall Material (Off-White)	90%	Glass Wool Fibers	2%	07/11	HD
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper Facing (Tan)	10%	Cellulose Fibers	100%		·····
502-07	Joint Compound (White)	100%	Calcite / Talc / Binders	100%	07/11	HD
502-08	Joint Compound (White)	100%	Calcite / Talc / Binders	100%	07/11	HD
502-09	Joint Compound (White)	100%	Calcite / Talc / Binders	100%	07/11	HD
502-10	Floor Tile (Off-White)	99%	Calcite / Vinyl Binders	100%	07/11	HD
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
502-11	Floor Tile (Off-White)	99%	Calcite / Vinyl Binders	100%	07/11	HD
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
502-12	Floor Tile (Off-White)	99%	Calcite / Vinyl Binders	100%	07/11	HD
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
502-13	Cove Base (Black)	98%	Calcite / Vinyl Binders	100%	07/11	HD
	Yellow Mastic (Yellow)	2%	Glue Binders	100%		
502-14	Cove Base (Black)	98%	Calcite / Vinyl Binders	100%	07/11	HD
	Yellow Mastic (Yellow)	2%	Glue Binders	100%		
502-15	Cove Base (Black)	99%	Calcite / Vinyl Binders	100%	07/11	HD
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
502-16	Thermal Insulation (White)	80%	Synthetic Fibers	5%	07/11	HD
			Glass Wool Fibers	2%		
			Calcite / Binders	93%		
	Glass Fiber Wrap (White)	15%	Glass Wool Fibers	100%		
	Silver Paint (Silver)	5%	Pigment / Binders	100%		
502-17	Thermal Insulation (Off-White)	80%	Mineral Wool Fibers	20%	07/11	HD
			Binders / Fillers	80%		
	Glass Fiber Wrap (White)	15%	Glass Wool Fibers	100%		
	Silver Paint (Silver)	5%	Pigment / Binders	100%		
502-18	Thermal Insulation (Off-White)	80%	Mineral Wool Fibers	20%	07/11	HD
			Binders / Fillers	80%		
	Glass Fiber Wrap (White)	15%	Glass Wool Fibers	100%		
	Silver Paint (Silver)	5%	Pigment / Binders	100%		
502-19	Glass Foam (Black)	50%	Glass Foam	100%	07/11	HD
	Black Mastic (Black)	50%	Tar Binders	100%		
502-20	Glass Foam (Black)	95%	Glass Foam	100%	07/11	HD
	Black Mastic (Black)	5%	Tar Binders	100%		
	Glass Foam (Black)	100%	Glass Foam	100%	07/11	HD

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502-22	Glass Foam (Black)	15%	Glass Foam	100%	07/11	HD
	Paper / Foil Wrap (White / Silver)	65%	Cellulose Fibers	60%		
			Glass Wool Fibers	20%		
			Metal Foil	20%		
	White Mastic (White)	20%	Wollastonite	3%		
			Polyethylene Fibers	5%		
			Pigment / Binders	92%		
502-23	Glass Foam (Black)	50%	Glass Foam	100%	07/11	HD
	White Mastic (White)	50%	Wollastonite	3%		
			Polyethylene Fibers	5%		
			Pigment / Binders	92%		
502-24	Glass Foam (Black)	50%	Glass Foam	100%	07/11	HD
	White Mastic (White)	50%	Wollastonite	3%		
			Polyethylene Fibers	5%		
			Pigment / Binders	92%		
502-25	Yellow Insulation (Yellow)	5%	Mineral Wool Fibers	95%	07/11	HD
			Resin Binders	5%		
	Paper / Foil Wrap (Tan / Silver)	5%	Cellulose Fibers	60%		
			Glass Wool Fibers	20%		
			Metal Foil	20%		
	Grey Thermal (Light Grey)	10%	Mineral Wool Fibers	20%		
			Binders / Fillers	80%		
	Glass Fiber Wrap (White)	35%	Glass Wool Fibers	100%		
	White Mastic (White)	45%	Chrysotile	10%		
			Pigment / Binders	90%		

PLM Detail Report

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
502-26	Thermal Insulation (Light Grey)	35%	Mineral Wool Fibers	20%	07/11	HD
			Binders / Fillers	80%		
	Glass Fiber Wrap (White)	25%	Glass Wool Fibers	100%		
	White Mastic (White)	40%	Chrysotile	10%		
			Pigment / Binders	90%		
502-27	Yellow Insulation (Yellow)	5%	Mineral Wool Fibers	95%	07/11	HD
			Resin Binders	5%		
	Paper / Foil Wrap (Tan / Silver)	5%	Cellulose Fibers	60%		
			Glass Wool Fibers	20%		
			Metal Foil	20%		
	Grey Thermal (Light Grey)	10%	Mineral Wool Fibers	20%		
			Binders / Fillers	80%		
	Glass Fiber Wrap (White)	35%	Glass Wool Fibers	100%		
	White Mastic (White)	45%	Chrysotile	10%		
			Pigment / Binders	90%		
502-28	Roofing Material (Black/White)	100%	Synthetic Fibers	25%	07/11	HD
			Aggregate	20%		
			Calcite / Tar Binders	55%		
502-29	Roofing Material (Black/White)	100%	Synthetic Fibers	25%	07/11	HD
			Aggregate	20%		
			Calcite / Tar Binders	55%		
502-30	Roofing Material (Black/White)	100%	Synthetic Fibers	25%	07/11	HD
			Aggregate	20%		
			Calcite / Tar Binders	55%		
502-31	Caulking (White)	100%	Calcite	60%	07/11	HD
			Binders / Fillers	40%		
502-32	Caulking (White)	100%	Calcite	60%	07/11	HD
			Binders / Fillers	40%		

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
502-33	Caulking (White)	100%	Calcite	60%	07/11	HD
			Binders / Fillers	40%		
502-34	Foam Insulation (Light Yellow)	82%	Synthetic Foam	100%	07/11	HD
	Sealant (Grey)	15%	Calcite / Vinyl Binders	100%		
	Black Mastic (Black)	3%	Tar Binders	100%		
502-35	Foam Insulation (Light Yellow)	70%	Synthetic Foam	100%	07/11	HD
	Sealant (Grey)	15%	Calcite / Vinyl Binders	100%		
	Black Mastic (Black)	15%	Tar Binders	100%		
502-36	Foam Insulation (Light Yellow)	70%	Synthetic Foam	100%	07/11	HD
	Sealant (Grey)	15%	Calcite / Vinyl Binders	100%		
	Black Mastic (Black)	15%	Tar Binders	100%		

APPENDIX B

Floor Plans

