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**Limited NESHAP Renovation Asbestos Survey**

Bay Pines VA  
Building 22, Third Floor  
10000 Bay Pines Boulevard  
Bay Pines, Pinellas County, Florida 33711

June 16, 2014

Prepared for:

Mr. Jim Charlton, PMP  
Bay Pines VAHCS  
PO Box 5005 (138P) Bldg. 35  
Bay Pines, Florida 33744

*Victor Rivera*

Victor Rivera  
Florida Certified Inspector

Date 7/11/14

*Dr. Robert D. Mitchell*

Dr. Robert D. Mitchell *BY DIRECTION:*  
LAC# DD 0000007

*FR*

Date 7/11/14

**AD# 31656**

Prepared by:

**APOLLO ENVIRONMENTAL, INC.**

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**Scope of Work**

At the request of Mr. Jim Charlton of Bay Pines VAHCS, Apollo Environmental, Inc. conducted a Limited NESHAP Renovation Asbestos Survey of Building 22 located on the campus of the Bay Pines VA at 10000 Bay Pines Boulevard in Bay Pines, Florida. The survey was limited to the interior of the third floor.

**Executive Summary**

On June 16, 2014, Mr. Victor Rivera, Surveyor/Inspector for Apollo Environmental, Inc., conducted the survey on the third floor of Building 22. Upon inspection of the area, 20 Homogeneous Areas (HA's) were identified as suspect asbestos-containing materials, and 53 bulk samples were collected. Laboratory analysis by Polarized Light Microscopy (PLM) found four of the HA's to be asbestos-containing materials (ACM).

<b>ASBESTOS CONTAINING MATERIALS SUMMARY TABLE</b>					
<b>HA #</b>	<b>Location (within Scope of Work)</b>	<b>Material Description (ACM layers in bold)</b>	<b>Approx. Area</b>	<b>NESHAP Category</b>	<b>Friable or Non- Friable</b>
7	Rm. 301	12" blue & brown floor tile over floor tile on <b>black mastic</b>	150 sf	<b>Category I</b>	N
8	Rm. 307 and Rm. 346 (mechanical rooms)	<b>white and beige mastic</b> over foam glass on chiller lines	300 lf	<b>Category I</b>	N
12	Rm. 331, 333, 334, 341, 342 and 347 thru 350	blue carpet with glue over <b>black mastic</b> remnants	1,700 sf	<b>Category I</b>	N
20	west end of corridor C3-3 (south end of south wing)	brown & gray carpet with glue over floor tile with <b>black mastic</b>	120 sf	<b>Category I</b>	N

## **Recommendations**

1. A copy of this survey and any previous survey reports should remain on site during all renovation/demolition activities.
2. Non-friable flooring materials (**Category I**), that will remain non-friable, may be removed prior to renovation activities by Asbestos trained personnel of their respective trade utilizing standard industry practices. All other ACM expected to be impacted by renovation activities needs to be removed by a licensed asbestos abatement contractor prior to general construction activities.
3. If during the course of renovation activities, suspect materials are uncovered other than those detailed in this report, laboratory analysis of these materials is required prior to disturbance.
4. Compliance with OSHA regulations is required on all projects in which asbestos-containing materials are being disturbed.

Location and Analysis Summary of Homogeneous Materials						
HA#	Sample #s)	Location (within Scope of Work)	Material Description	Approx. Area	ACM Type and Content	Condition
1	1 to 4	throughout	suspended ceiling panels	11,000 sf	None Detected	Fair
2	5 to 11	throughout	sheetrock walls with skimcoat	18,000 sf	None Detected	Good
3	12,13	Rm. 327 & 329	ceramic wall tile with adhesive	500 sf	None Detected	Fair
4	14,15	Rm. 327 & 329	ceramic floor tile with grout and thinset	360 sf	None Detected	Fair
5	16,17	Rm. 300(A,B,C & D), 302, 303, 304, 305A, 313 thru 323 325, 326, 335 & 338	brown & gray carpeting with glue over concrete slab	4,000 sf	None Detected	Fair
6	18,19	lobby C3-1 & corridor C3-2	12" beige floor tile with black mastic	970 sf	None Detected	Fair
7	20,21	Rm. 301	12" blue & brown floor tile over floor tile on black mastic	130 sf	<b>3% Chrysotile in black mastic</b>	Fair
8	22,23,24	Rm. 307 and Rm. 346 (mechanical rooms)	white and beige mastic over foam glass on chiller lines	300 lf	<b>5% Chrysotile in both mastics</b>	Fair
9	25,26,27	Rm. 307 and Rm. 346 (above suspended ceiling)	white and beige mastic over fiberglass on hot water pipes and duct seams	500 lf	None Detected	Fair
10	28,29	Rm. 330A	beige sink undercoating	5 sf	None Detected	Fair
11	30,31	Rm. 330A	12" beige ceramic floor tile with grout and thinset	180 sf	None Detected	Fair
12	32,33	Rm. 331, 333, 334, 341, 342 and 347 thru 350	blue carpet with glue over black mastic remnants	1,700 sf	<b>5% Chrysotile in black mastic</b>	Fair
13	34,35	throughout	vinyl cove base with adhesive	600 sf	None Detected	Fair
14	36,37,38	Rm. 307 and Rm. 346 (above suspended ceiling)	gray mastic on seams of metal ductwork	100 sf	None Detected	Fair
15	39,40	exterior balconies	6" red ceramic floor tile with grout and thinset	2,800 sf	None Detected	Fair
16	41 to 45	walls of balconies	stucco	4,800 sf	None Detected	Fair
17	46,47	exterior doors	door frame caulk	40 sf	None Detected	Fair
18	48,49	exterior windows	window frame caulk	90 sf	None Detected	Fair
19	50,51	corridor C3-2 (north wing)	blue carpeting with glue over floor tile with black mastic	600 sf	None Detected	Fair
20	52,53	west end of corridor C3-3 (south end of south wing)	brown & gray carpet with glue over floor tile with black mastic	100 sf	<b>2.0% Chrysotile in black mastic*</b>	Fair

\* The black mastic in Sample 53 of HA 20, was analyzed using the Point Count Method in order to more accurately determine the amount of asbestos present in the sample.

## Site Characteristics

- General:** Building 22 is a four-story structure. The survey was limited to the interior of the third floor.
- Ceilings:** No batt insulation was observed above the suspended ceilings. The following suspect ceiling material was identified and sampled:  
HA 1: suspended ceiling panels
- Walls:** The following suspect wall materials were identified and sampled:  
HA 2: sheetrock walls with skimcoat  
HA 3: ceramic wall tile with adhesive  
HA 16: stucco
- Floors:** The floors are concrete slab. The following suspect flooring materials were identified and sampled:  
HA 4: ceramic floor tile with grout and thinset  
HA 5: brown & gray carpeting with glue over concrete slab  
HA 6: 12" beige floor tile with black mastic  
HA 7: 12" blue & brown floor tile over floor tile on black mastic  
HA 11: 12" beige ceramic floor tile with grout and thinset  
HA 12: blue carpet with glue over black mastic remnants  
HA 15: 6" red ceramic floor tile with grout and thinset  
HA 19: blue carpeting with glue over floor tile with black mastic  
HA 20: brown & gray carpet with glue over floor tile with black mastic
- HVAC:** Chiller units, located outside the scope of work, feed air-handlers in the mechanical rooms. The rubber vibration isolators are not suspect. Chilled water lines and hot water lines penetrate the slab and concrete deck in the mechanical rooms. The following suspect HVAC materials were identified and sampled:  
HA 8: white and beige mastic over foam glass on chiller lines  
HA 9: white and beige mastic over fiberglass on hot water pipes and duct seams  
HA 14: gray mastic on seams of metal ductwork
- Plumb.:** No water heater or suspect plumbing insulation was found.
- Misc:** No spray-applied fireproofing was observed. The following suspect miscellaneous materials were identified and sampled:  
HA 10: beige sink undercoating  
HA 13: vinyl cove base with adhesive  
HA 17: door frame caulk  
HA 18: window frame caulk

## **Asbestos Survey Protocol**

The purpose of this survey was to locate and assess the suspect asbestos-containing materials as defined in the Scope of Work. The site was surveyed for the presence of materials that are typically suspect to contain asbestos. Prior to collecting any samples, distinct homogeneous sampling areas are identified and a sampling strategy is developed. A **homogeneous sampling area** can be described as any suspect asbestos material that is similar in appearance and texture, having similar installation, age, use and function.

Sampling locations are chosen to be representative of the homogeneous sampling area. While an effort is made to collect the samples randomly, samples are taken preferentially from as many rooms as possible and, for occupied facilities, from areas that are the least visible. As these materials were identified, bulk samples were obtained and placed into individual sample containers for transport to the Apollo Environmental laboratory. Suspect materials were sampled in an effort to obtain all representative layers that characterize their composition. All sample locations were identified by a numbered label. These numbers directly correspond with the numbers listed in the analytical results tables, laboratory analysis sheets and drawings.

Each suspected asbestos-containing material is classified as either friable or non-friable. **Friable** materials as defined by the EPA may be crumbled, pulverized, or reduced to a powder by hand pressure when dry. Friable asbestos-containing material is usually more hazardous than non-friable asbestos-containing material because it has greater potential to readily release airborne asbestos fibers.

Materials that were hidden or not accessible were not evaluated as part of this survey. These materials should be analyzed if and when they are located during any renovation or demolition. Materials visibly identifiable as non-asbestos (fibrous glass, foam rubber, wood, etc.) were not sampled.

The survey was performed as required by NESHAP, 40 CFR, Part 61, Subpart M. The sampling protocol/strategy is based on EPA Reg. 40 CFR, Part 763 (AHERA) with modifications. As 40 CFR, Part 763, does not address the assessment of roofing and limited exterior components of the buildings, these additional materials were added in accordance with NESHAP, Part 61, Subpart M, and assessed using the 40 CFR, Part 763 protocols. Inventory, general supplies, etc. are not included as NESHAP building components. Additionally, samples are not collected in a completely random manner (see second paragraph of survey protocol).

Bulk asbestos samples were analyzed by Apollo by Polarized Light Microscopy (PLM) using dispersion staining techniques according to US EPA method 600/M4-82-020 incorporating visual estimates (area) of identified materials percentages and Apollo's NVLAP accredited procedures.

Any material that contains greater than one percent of any type of asbestos is considered by the EPA, OSHA and the State of Florida, an **asbestos-containing material (ACM)** and must be handled according to regulations. Apollo Environmental, Inc. participates in the National Voluntary Laboratory Accreditation Program (NVLAP), and other quality control programs for asbestos analysis.

## **General Conditions**

1. **DOCUMENTS:** All documents, including but not limited to drawings, specifications, reports, field notes, laboratory test data, calculations, and estimates prepared by Apollo Environmental Incorporated (AEI) pursuant to this Agreement, shall be the sole property of AEI. Client agrees that all documents of any nature furnished to Client, if not paid for, will be returned upon demand and will not be used by Client for any purpose whatsoever. Client agrees that under no circumstances shall any documents produced by AEI pursuant to this Agreement be used at any location or for any project not expressly provided for in this Agreement without the written permission of AEI. Client agrees that reports of AEI issued pursuant to this Agreement are for the exclusive use of Client and that such reports, the name of AEI, or its insignia or seal shall not be used by or on behalf of Client under any circumstances in advertising to the general public, or in any public material or in any other manner without AEI's prior written approval. Client agrees to indemnify, defend, and hold AEI harmless from and against any claims, liabilities, loss or damage, including reasonable attorney's fees arising out of any use of the reports, name, insignia or seal of AEI without AEI's prior written approval. At the request and expense of Client, AEI will provide Client with copies of documents created in the performance of the work for a period not exceeding one year following submission of the report contemplated by this Agreement.

This assessment has been prepared for the sole use of the client. Its contents should not be relied upon by other parties without the express written consent of Apollo Environmental, Inc., and the client.

2. The information and conclusions presented in his report are valid only for the circumstances of the sites investigated as described in this report as they existed during the time period of the investigation.
3. **WARRANTIES. THERE ARE NO EXPRESSED OR IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, NOT SPECIFIED HEREIN.** Respecting this Agreement for the equipment, documentation, reports and services to be provided hereunder, or the delivery, use, or performance thereof, the only warranty or guarantee made by AEI in connection with the services performed hereunder, is that it will use that degree of care and skill ordinarily required in the performance of the services provided. No other warranty, expressed or implied, is made or intended by AEI's services or written reports.
4. None of the information contained herein should be construed as medical advice or a call to action for evacuation. Any decision relative to medical significance should be made by a qualified physician.
5. Apollo Environmental, Inc., evaluated the reasonableness and completeness of all relevant information, but does not assume responsibility for the truth or accuracy of any information provided to Apollo Environmental Inc. by others or for the lack of information that is intentionally, unintentionally, or negligently withheld from Apollo by others. Professional judgement was exercised in gathering and evaluating the information obtained, and Apollo commits itself to the usual care, thoroughness and competence of the industrial hygiene/environmental profession.

This report is based on information made available at the time of the inspections. The opinions expressed draw upon the background, training and experience of the personnel involved in the investigation. Should additional information become available, Apollo Environmental, Inc., reserves the right to determine the weight and impact, if any, of the new information on our opinions and conclusions, and to revise the opinions and conclusions if necessary and warranted by the discovery of the additional information.

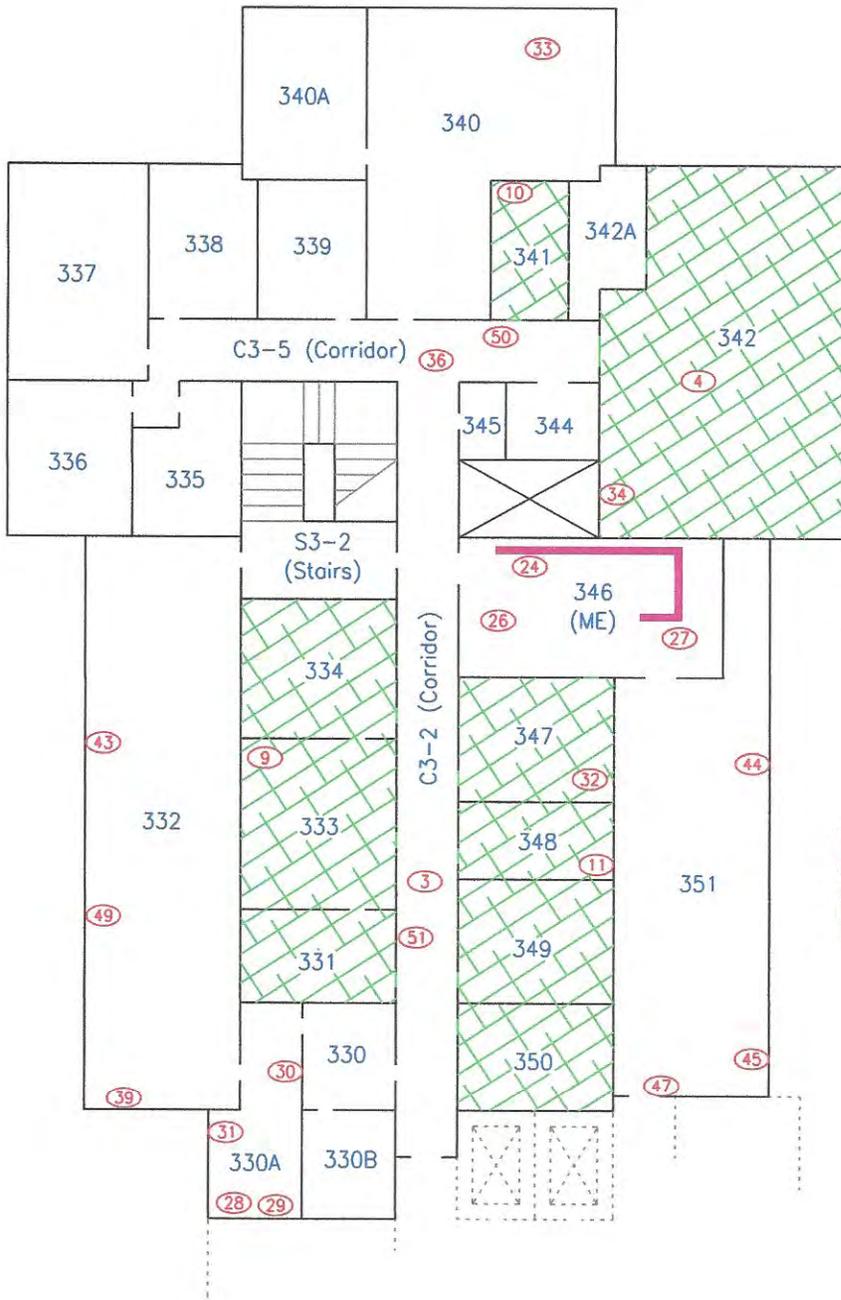
6. After acceptance of this report, if Apollo obtains information that it believes warrants further exploration and development, Apollo will endeavor to provide that information to the Client, but Apollo will not be liable for not doing so.
7. This report is neither a legal opinion nor "due diligence inquiry." Only legal counsel retained by the Client is competent to determine the legal implications of information or conclusions contained in this report.
8. Apollo is not responsible for any effect upon the Client or others' legal rights, obligations, or liabilities or for any effect upon the finance ability, marketability, or value of the property or for the occurrence or non-occurrence of any transaction involving the property based upon the information stated in this report.

**LIMITATION OF LIABILITY:** Client agrees that AEI's liability for any damage on account of any error, omission, or other professional negligence will be limited to an amount equal to the lesser of \$10,000 or AEI's fee. AEI, its agents, and employees shall not be liable for any lost profits or any claim or demand against Client by any other party. In no event shall AEI be liable for special, consequential, or exemplary damages. This provision shall supersede any other provision in this report that may be deemed inconsistent with it. No action, regardless of form, arising out of the service under this Agreement, may be brought by the Client more than one (1) year after the act or omission giving rise to a cause of action has occurred.

9. To achieve the study objectives stated in this report, Apollo based its conclusions on the best information available during the period of the investigation and within the limits prescribed by the Client.
10. **SAMPLE DISPOSAL:** Unless otherwise agreed, test specimens or samples will be disposed of immediately upon completion of the test or per NVLAP.
11. **INDEMNITY:** The Client agrees to indemnify, defend, and hold AEI, its officers, employees, and agents harmless from any and all claims, suits, losses, costs, and expenses, including but not limited to, court costs and reasonable attorney's fees arising or alleged to have arisen out of or to have resulted from the performance of AEI's work on or about the subject Project, and caused in whole or in part by a negligent, willful, or wanton act or omission of the Client. In the event that the Client shall bring any claim, suit, cause of action, or counterclaim against AEI, to the extent that AEI shall prevail upon such action, the Client shall pay to AEI the costs expended by AEI to defend against such action, including reasonable attorney's fees, witness fees, and other related expenses.
12. **PAYMENT:** Payment is due upon receipt of AEI's invoices. If payment is not received within thirty (30) days of receipt by Client, Client agrees to pay a finance charge of the principal amount of the past due account of two (2%) percent per month. If two (2%) percent per month exceeds the maximum allowed by law, the charges shall automatically be reduced to the maximum legally allowable. The Client agrees to pay AEI's cost of collection of all amounts due and unpaid after sixty (60) days, including court costs and reasonable attorney's fees.

## Appendix 1

### Sample Location and ACM Location Drawings



**Building 22**  
**-North Wing of Third Floor-**

(00) Sample Locations

Approx. ACM Locations



HA 8: White & Beige Mastic  
 on Chiller Pipe Runs & Elbows  
 HA 12: Black Mastic Remnants  
 Under Carpet and Glue

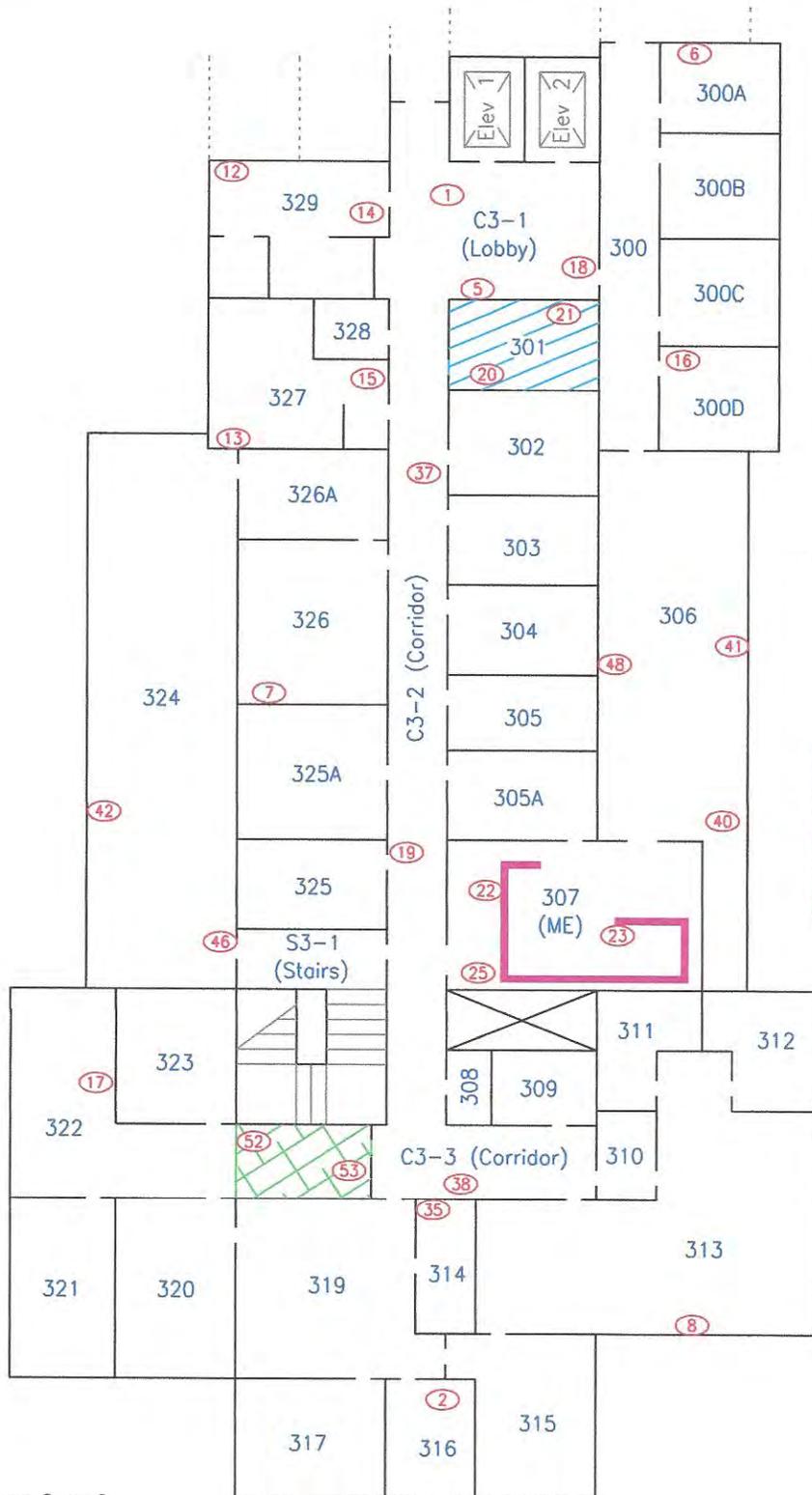
DRAWING 1 OF 2

NOT TO SCALE



APOLLO ENVIRONMENTAL, INC.  
 11553 US HIGHWAY 41 SOUTH  
 GIBSONTON, FLORIDA 33534  
 PHONE: 813-671-3999  
 DRAWN BY: F.R.R. DATE: 6-16-14

Bay Pines VA Medical Center  
 10000 Bay Pines Boulevard  
 Bay Pines, Florida  
 Prepared for: Bay Pines VAHCS



**Building 22**  
**-South Wing of Third Floor-**

⓪ Sample Locations

Approx. ACM Locations

-  HA 7: Black Mastic Under Two Layers of Floor Tile
-  HA 8: White & Beige Mastic on Chiller Pipe Runs & Elbows
-  HA 20: Black Mastic Under Floor Tile Under Carpet



DRAWING 2 OF 2

NOT TO SCALE

 **APOLLO ENVIRONMENTAL, INC.**  
 11553 US HIGHWAY 41 SOUTH  
 GIBSONTON, FLORIDA 33534  
 PHONE: 813-671-3999  
 DRAWN BY: F.R.R.      DATE: 6-16-14

**Bay Pines VA Medical Center**  
 10000 Bay Pines Boulevard  
 Bay Pines, Florida  
 Prepared for: Bay Pines VAHCS

## Appendix 2

### Sample Analysis Sheets

**APOLLO ENVIRONMENTAL, INC.**  
 11553 US Highway 41 South  
 Gibsonton, FL 33534: Tel.: (813) 671-3999

Client Name: VA Bay Pines Medical Center  
 10000 Bay Pines Boulevard  
 Bay Pines, Florida

Project Name: Building 22 - 3<sup>rd</sup> Floor  
 Date Analyzed: June 19, 2014

Asbestos, Bulk Sample Analysis

Test Method: PLM / DS - Method 600/R-93/116

Lab #	Client #	Sample Type	Description	% Asbestos	% Other Fibers	% Binders
141761	1 HA 1	drop ceiling panels heterogeneous	white paint beige panel	NAD NAD	40% cellulose 20% fibrous glass	100% pigments & binders 40% perlite & binders
141762	2 HA 1	drop ceiling panels heterogeneous	white paint beige panel	NAD NAD	40% cellulose 20% fibrous glass	100% pigments & binders 40% perlite & binders
141763	3 HA 1	drop ceiling panels heterogeneous	white paint beige panel	NAD NAD	40% cellulose 20% fibrous glass	100% pigments & binders 40% perlite & binders
141764	4 HA 1	drop ceiling panels heterogeneous	white paint beige panel	NAD NAD	40% cellulose 20% fibrous glass	100% pigments & binders 40% perlite & binders
141765	5 HA 2	sheetrock wall w/ skimcoat homogeneous	drywall w/backing	NAD	10% cellulose 10% fibrous glass	80% gypsum & binders
141766	6 HA 2	sheetrock wall w/ skimcoat heterogeneous	tan paint white surfacing drywall w/backing	NAD NAD NAD	10% cellulose 10% fibrous glass	100% pigments & binders 100% carbonates & binders 80% gypsum & binders
141767	7 HA 2	sheetrock wall w/ skimcoat heterogeneous	light gray paint drywall w/backing	NAD NAD	10% cellulose 10% fibrous glass	100% pigments & binders 80% gypsum & binders
141768	8 HA 2	sheetrock wall w/ skimcoat heterogeneous	light gray paint drywall w/backing	NAD NAD	10% cellulose 10% fibrous glass	100% pigments & binders 80% gypsum & binders
141769	9 HA 2	sheetrock wall w/ skimcoat heterogeneous	white paint drywall w/backing	NAD NAD	10% cellulose 10% fibrous glass	100% pigments & binders 80% gypsum & binders
141770	10 HA 2	sheetrock wall w/ skimcoat heterogeneous	white paint drywall w/backing	NAD NAD	10% cellulose 10% fibrous glass	100% pigments & binders 80% gypsum & binders
141771	11 HA 2	sheetrock wall w/ skimcoat heterogeneous	tan paint drywall w/backing	NAD NAD	10% cellulose 10% fibrous glass	100% pigments & binders 80% gypsum & binders

Apollo is accredited by NVLAP for both the Interim Method EPA 600/M4-82-020 and EPA 600/R-93/116. These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than 1% asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials which are friable or may become friable be further analyzed by point counting when the results indicate less than 10% asbestos by CVAE. Apollo environmental, Inc. Utilizes CVAE on a routine basis and does not include point counting unless specifically requested. Additionally, these results may not be reproduced except in full. This report data is to be interpreted only by the person(s) whom have collected the samples. Furthermore, this report may not be used as a claim to product certification, approval or endorsement by NVLAP, NIST or any other agency of the Federal Government.

Floor tile and other resinously bound materials, when analyzed by EPA method, may yield false negative results because of limitations in separating closely bound fibers and in detecting fibers of small length and diameter. When a definitive result is required, Apollo recommends utilizing alternative methods of identification, including Transmission electron Microscopy. (Revision 7, December 2013)

Project Number: AD-31656

Analyzed By:

*Lara A Davis*

NVLAP Lab Code 101871-0

**APOLLO ENVIRONMENTAL, INC.**  
 11553 US Highway 41 South  
 Gibsonton, FL 33534: Tel.: (813) 671-3999

Client Name: VA Bay Pines Medical Center  
 10000 Bay Pines Boulevard  
 Bay Pines, Florida

Project Name: Building 22 - 3<sup>rd</sup> Floor

Date Analyzed: June 19, 2014

Asbestos, Bulk Sample Analysis

Test Method: PLM / DS - Method 600/R-93/116

Lab #	Client #	Sample Type	Description	% Asbestos	% Other Fibers	% Binders
141772	12 HA 3	ceramic wall tile w/adhesive heterogeneous	ceramic tile tan adhesive white paint white surfacing tan & green paper	NAD NAD NAD NAD NAD	100% cellulose	100% ceramic 100% binders 100% pigments & binders 100% carbonates & binders
141772	13 HA 3	ceramic wall tile w/adhesive heterogeneous	ceramic tile tan adhesive white paint white surfacing tan & green paper	NAD NAD NAD NAD NAD	100% cellulose	100% ceramic 100% binders 100% pigments & binders 100% carbonates & binders
141774	14 HA 4	ceramic floor tile w/grout heterogeneous	ceramic tile beige thinset gray grout white paper	NAD NAD NAD NAD	100% cellulose	100% ceramic 100% cementitious 100% cementitious
141775	15 HA 4	ceramic floor tile w/grout heterogeneous	ceramic tile beige thinset gray grout white paper	NAD NAD NAD NAD	100% cellulose	100% ceramic 100% cementitious 100% cementitious
141776	16 HA 5	brown carpet w/adhesive heterogeneous	carpet tan adhesive green adhesive	NAD NAD NAD	50% synthetic 10% fibrous glass	40% vinyl & binders 100% binders 100% binders
141777	17 HA 5	brown carpet w/ adhesive heterogeneous	carpet tan adhesive green adhesive	NAD NAD NAD	50% synthetic 10% fibrous glass	40% vinyl & binders 100% binders 100% binders
141778	18 HA 6	12" beige floor tile over black mastic heterogeneous	beige tile black mastic gray concrete	NAD NAD NAD	2% cellulose	100% carbonates & binders 98% bitumen & binders 100% cementitious
141779	19 HA 6	12" beige floor tile over black mastic heterogeneous	beige tile black mastic gray concrete	NAD NAD NAD	2% cellulose	100% carbonates & binders 98% bitumen & binders 100% cementitious
141780	20 HA 7	12" floor tile over floor tile over adhesive & black mastic heterogeneous	blue tile tan adhesive white tile black mastic	NAD NAD NAD <b>3% Chrysotile</b>		100% carbonates & binders 100% binders 100% carbonates & binders 97% carbonates & binders

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Floor tile and other resinously bound materials, when analyzed by EPA method, may yield false negative results because of limitations in separating closely bound fibers and in detecting fibers of small length and diameter. When a definitive result is required, Apollo recommends utilizing alternative methods of identification, including Transmission electron Microscopy. (Revision 7, December 2013)

Project Number: AD-31656

Analyzed By:

*Lara A Davis*

NVLAP Lab Code 101871-0

**APOLLO ENVIRONMENTAL, INC.**  
 11553 US Highway 41 South  
 Gibsonton, FL 33534: Tel.: (813) 671-3999

Client Name: VA Bay Pines Medical Center  
 10000 Bay Pines Boulevard  
 Bay Pines, Florida

Project Name: Building 22 - 3<sup>rd</sup> Floor  
 Date Analyzed: June 19, 2014

Asbestos, Bulk Sample Analysis

Test Method: PLM / DS - Method 600/R-93/116

Lab #	Client #	Sample Type	Description	% Asbestos	% Other Fibers	% Binders
141781	21 HA 7	12" floor tile over floor tile over adhesive & black mastic heterogeneous	brown tile tan adhesive white tile black mastic	NAD NAD NAD <b>3% Chrysotile</b>		100% carbonates & binders 100% binders 100% carbonates & binders 97% carbonates & binders
141782	22 HA 8	chiller pipes mastic & foamed glass insulation heterogeneous	white mastic gray foamed glass beige mastic	<b>5% Chrysotile</b> NAD <b>5% Chrysotile</b>	10% fibrous glass	85% binders 100% foamed glass 95% binders
141783	23 HA 8	chiller pipes mastic & foamed glass insulation heterogeneous	white mastic white paper silver foil black mastic gray foamed glass	<b>5% Chrysotile</b>	10% fibrous glass 100% cellulose	85% binders  100% foil 100% bitumen & binders 100% foamed glass
141784	24 HA 8	chiller pipes mastic & foamed glass insulation heterogeneous	white mastic gray foamed glass beige mastic	<b>5% Chrysotile</b> NAD <b>5% Chrysotile</b>	10% fibrous glass	85% binders 100% foamed glass 95% binders
141785	25 HA 9	hot water pipes and A/H duct mastic & fiberglass insul heterogeneous	white mastic white paper mesh layer tan adhesive silver foil yellow insulation	NAD NAD NAD NAD NAD NAD	100% cellulose 100% fibrous glass  100% fibrous glass	100% binders  100% binders 100% foil
141786	26 HA 9	hot water pipes and A/H duct mastic & fiberglass insul heterogeneous	white mastic white paper mesh layer tan adhesive silver foil yellow insulation	NAD NAD NAD NAD NAD NAD	100% cellulose 100% fibrous glass  100% fibrous glass	100% binders  100% binders 100% foil
141787	27 HA 9	hot water pipes and A/H duct mastic & fiberglass insul heterogeneous	white mastic white paper mesh layer tan adhesive silver foil yellow insulation	NAD NAD NAD NAD NAD NAD	100% cellulose 100% fibrous glass  100% fibrous glass	100% binders  100% binders 100% foil

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Analyzed By:

*Lara A Davis*

NVLAP Lab Code 101871-0

**APOLLO ENVIRONMENTAL, INC.**  
 11553 US Highway 41 South  
 Gibsonton, FL 33534: Tel.: (813) 671-3999

Client Name: VA Bay Pines Medical Center  
 10000 Bay Pines Boulevard  
 Bay Pines, Florida

Project Name: Building 22 - 3<sup>rd</sup> Floor

Date Analyzed: June 19, 2014

Asbestos, Bulk Sample Analysis

Test Method: PLM / DS - Method 600/R-93/116

Lab #	Client #	Sample Type	Description	% Asbestos	% Other Fibers	% Binders
141788	28 HA 10	sink undercoating homogeneous	off-white under coating	NAD	10% cellulose	90% binders
141789	29 HA 10	sink undercoating homogeneous	off-white under coating	NAD	10% cellulose	90% binders
141790	30 HA 11	12" beige ceramic floor tile w/grout heterogeneous	beige-gray ceramic gray grout white thinset tan adhesive	NAD NAD NAD NAD		100% ceramic 100% cementitious 100% cementitious 100% binders
141791	31 HA 11	12" beige ceramic floor tile w/grout heterogeneous	beige-gray ceramic gray grout white thinset tan adhesive	NAD NAD NAD NAD		100% ceramic 100% cementitious 100% cementitious 100% binders
141792	32 HA 12	carpet with adhesive heterogeneous	blue carpet tan adhesive gray concrete	NAD NAD NAD	70% synthetic	30% foam & binders 100% binders 100% cementitious
141793	33 HA 12	carpet with adhesive heterogeneous	blue carpet tan adhesive black mastic	NAD NAD 5% Chrysotile	80% synthetic	20% binders 100% binders 95% bitumen & binders
141794	34 HA 13	covebase with adhesive heterogeneous	gray vinyl beige adhesive white paper	NAD NAD NAD	100% cellulose	100% vinyl & binders 100% binders
141795	35 HA 13	covebase with adhesive heterogeneous	gray vinyl beige adhesive	NAD NAD		100% vinyl & binders 100% binders
141796	36 HA 14	metal duct seam mastic homogeneous	gray mastic	NAD		100% binders
141797	37 HA 14	metal duct seam mastic homogeneous	gray mastic	NAD		100% binders
141798	38 HA 14	metal duct seam mastic homogeneous	gray mastic	NAD		100% binders
141799	39 HA 15	6" red ceramic floor tile w/grout heterogeneous	red-orange ceramic gray grout gray thinset	NAD NAD NAD		100% ceramic 100% cementitious 100% cementitious

Apollo is accredited by NVLAP for both the Interim Method EPA 600/M4-82-020 and EPA 600/R-93/116. These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than 1% asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials which are friable or may become friable be further analyzed by point counting when the results indicate less than 10% asbestos by CVAE. Apollo environmental, Inc. Utilizes CVAE on a routine basis and does not include point counting unless specifically requested. Additionally, these results may not be reproduced except in full. This report data is to be interpreted only by the person(s) whom have collected the samples. Furthermore, this report may not be used as a claim to product certification, approval or endorsement by NVLAP, NIST or any other agency of the Federal Government.

Floor tile and other resinously bound materials, when analyzed by EPA method, may yield false negative results because of limitations in separating closely bound fibers and in detecting fibers of small length and diameter. When a definitive result is required, Apollo recommends utilizing alternative methods of identification, including Transmission electron Microscopy. (Revision 7, December 2013)

Project Number: AD-31656

Analyzed By:

*Lara A Davis*

NVLAP Lab Code 101871-0

**APOLLO ENVIRONMENTAL, INC.**  
 11553 US Highway 41 South  
 Gibsonton, FL 33534: Tel.: (813) 671-3999

Client Name: VA Bay Pines Medical Center  
 10000 Bay Pines Boulevard  
 Bay Pines, Florida

Project Name: Building 22 - 3<sup>rd</sup> Floor

Date Analyzed: June 19, 2014

Asbestos, Bulk Sample Analysis

Test Method: PLM / DS - Method 600/R-93/116

Lab #	Client #	Sample Type	Description	% Asbestos	% Other Fibers	% Binders
141800	40 HA 15	6" red ceramic floor tile w/grout heterogeneous	red-orange ceramic gray grout gray thinset	NAD NAD NAD		100% ceramic 100% cementitious 100% cementitious
141801	41 HA 16	stucco heterogeneous	beige paint gray concrete	NAD NAD		100% pigments & binders 100% cementitious
141802	42 HA 16	stucco heterogeneous	beige paint light green paint beige concrete	NAD NAD NAD		100% pigments & binders 100% pigments & binders 100% cementitious
141803	43 HA 16	stucco heterogeneous	beige paint gray concrete	NAD NAD		100% pigments & binders 100% cementitious
141804	44 HA 16	stucco heterogeneous	beige paint light green paint beige concrete	NAD NAD NAD		100% pigments & binders 100% pigments & binders 100% cementitious
141805	45 HA 16	stucco heterogeneous	beige paint gray concrete	NAD NAD		100% pigments & binders 100% cementitious
141806	46 HA 17	door frame caulk homogeneous	beige caulk	NAD		100% binders
141807	47 HA 17	door frame caulk homogeneous	beige caulk	NAD		100% binders
141808	48 HA 18	window frame caulk heterogeneous	beige caulk gray foam	NAD NAD		100% binders 100% foam
141809	49 HA 18	window frame caulk homogeneous	beige caulk	NAD		100% binders
141810	50 HA 19	multi-colored carpet over floor tile over black mastic heterogeneous	blue carpet clear adhesive white floor tile black mastic	NAD NAD NAD NAD	60% synthetic  10% cellulose	40% foam & binders 100% binders 100% carbonates & binders 90% bitumen & binders
141811	51 HA 19	multi-colored carpet over floor tile over black mastic heterogeneous	blue carpet clear adhesive white floor tile black mastic	NAD NAD NAD NAD	60% synthetic  10% cellulose	40% foam & binders 100% binders 100% carbonates & binders 90% bitumen & binders

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Project Number: AD-31656

Analyzed By:

*Lara A Davis*

NVLAP Lab Code 101871-0

**APOLLO ENVIRONMENTAL, INC.**  
 11553 US Highway 41 South  
 Gibsonton, FL 33534: Tel.: (813) 671-3999

Client Name: VA Bay Pines Medical Center  
 10000 Bay Pines Boulevard  
 Bay Pines, Florida

Project Name: Building 22 - 3<sup>rd</sup> Floor  
 Date Analyzed: June 19, 2014

Asbestos, Bulk Sample Analysis

Test Method: PLM / DS - Method 600/R-93/116

Lab #	Client #	Sample Type	Description	% Asbestos	% Other Fibers	% Binders
141812	52 HA 20	brown carpet over floor tile over black mastic heterogeneous	gray-blue carpet green adhesive white floor tile black mastic	NAD NAD NAD NAD	60% synthetic  5% cellulose	40% foam & binders 100% binders 100% carbonates & binders 95% bitumen & binders
141813	53 HA 20	brown carpet over floor tile over black mastic heterogeneous	gray-blue carpet green adhesive white floor tile tan adhesive black mastic	NAD NAD NAD NAD <b>3% chrysotile</b>	60% synthetic	40% foam & binders 100% binders 100% carbonates & binders 100% binders 97% bitumen & binders

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Project Number: AD-31656

Analyzed By:

*Lara A Davis*

NVLAP Lab Code 101871-0

**APOLLO ENVIRONMENTAL, INC.**  
11553 US Highway 41 South  
Gibsonton, FL 33534: Tel.: (813) 671-3999

Client Name: VA Bay Pines Medical Center  
10000 Bay Pines Boulevard  
Bay Pines, Florida

Project Name: Building 22 - 3<sup>rd</sup> Floor

Date Analyzed: June 23, 2014

Asbestos Point Count

Test Method: PLM / DS - Method 600/R-93/116

Laboratory Number: **141813**  
Sample Number: 53  
Sample Identification: HA 20 - black mastic

Asbestos Points: 8 Points - Chrysotile Asbestos  
Non Empty Points: 392 Points

Asbestos Percentage:  $8 \div 400 \times 100\% =$  2.0% Asbestos

Comments:

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These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than 1% asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials which are friable or may become friable be further analyzed by point counting when the results indicate less than 10% asbestos by CVAE. Apollo environmental, Inc. Utilizes CVAE on a routine basis and does not include point counting unless specifically requested. Additionally, these results may not be reproduced except in full. This report data is to be interpreted only by the person(s) whom have collected the samples. Furthermore, this report may not be used as a claim to product certification, approval or endorsement by NVLAP, NIST or any other agency of the Federal Government.

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Project Number: AD-31656

Analyzed By:

*Lara A Davis*

NVLAP Lab Code 101871-0

# APOLLO ENVIRONMENTAL, INC.

## SAMPLE ANALYSIS REQUEST FORM AND CUSTODY RECORD

AD#: 31656

CLIENT NAME: Bay Pines V.A.

ADDRESS: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

CONTACT PERSON: Jim Charleston

PROJECT NAME: Bldg 22 (3rd Floor)  
10000 Bay Pines Blvd, Bay Pines

SAMPLE(S) COLLECTED BY: Victor Rivea

DATE SAMPLES COLLECTED: 6/16/14

Type of Analysis:	# Of Samples
<input checked="" type="checkbox"/> PLM - Building Material for Asbestos Content	<u>49 + 4 = 53</u>
<input type="checkbox"/> PCM - Air Samples NIOSH 7400 Method ORM	_____
<input type="checkbox"/> TEM - Asbestos in Air	_____
<input type="checkbox"/> H2O - TDS, Sulfate, Chloride	_____
<input type="checkbox"/> Lead -Atomic Absorption, Lead in Paint/Water/Air	_____
<input type="checkbox"/> IAQ - Bioaerosols	_____
<input type="checkbox"/> IAQ - Swabs	_____
<input type="checkbox"/> Air-O-Cell Samples	_____
<input type="checkbox"/> Other, Please List: _____	_____

**Turn Around Time Requested:**

Rush-ASAP       24 Hour       48 Hour       Normal

Released By: <u>Victor Rivea</u>	Date/Time: <u>6/17/14</u>	Received By: <u>[Signature]</u>	Date/Time: <u>6-18-14</u>
Print Name: <u>Victor Rivea</u>	<u>16:30</u>	Print Name: _____	<u>1:28 PM</u>
Released By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
Print Name: _____	_____	Print Name: _____	_____

COMMENTS/NOTES: \_\_\_\_\_

Surveyor: Victor Rivera		AD#: 31656		Date 6/16/14	
Client: Bay Pines V.A.		Site Name: Bldg 22 (3 <sup>rd</sup> Floor)			
Address: 10000 Bay Pines Blvd, Bay Pines					
Bldg.	Room	Smp	HA	Description	F/I/N
22 3 <sup>rd</sup> Floor	Elevator Lobby	1	1	Drop Ceiling Panels	F/F
	316	2			
	Corridor 1	3			
	342	4			
	Elevator Lobby	5	2	5/2 wall w/ skim coat	F/G
	300A	6			
	326	7			
	313	8			
	333	9			
	341	10			
	348	11			
	329	12	3	C.T. wall o/gluc	N/F
	327	13			
	329	14	4	C.T. floor o/gluc & rhinoseal	N/F
	327	15			
	300D	16	5	Brown & Grey Carpet o/gluc o/c/s floor	N/F
	322	17			
	Elevator Lobby	18	6	12" Beige F.T. o/black mastic o/c/s	N/F
	Corridor 2	19			
	302	20	7	12" Blue & Dark Brown F.T. o/F.T. o/gluc o/black mastic o/c/s	N/F
	302	21			
	307	22	8	White mastic o/foam glass on	N/F
	307	23		elbow & runs on chiller pipes	
	346	24			
	307	25	9	White mastic o/FG insulation o/N.W. pipes & AHU ducts	N/F

Surveyor: Victor Rivera		AD#: 31656		Date 6/16/14	
Client: Bay Pines V.A.		Site Name: Bldg 22 (3 <sup>rd</sup> Floor)			
Address: 10000 Bay Pines Blvd, Bay Pines					
Bldg.	Room	Smp	HA	Description	F/N
	346	26	9	Beige mastic of FG insulation	N/F
	346	27		of NW pipes & A/C ducts	
	330-A	28	10	Sink undercoating (Beige)	N/F
	330-A	29			
	330-A	30	11	12" Beige C.T. floor of ground & thin	N/F
	330-A	31		scr	
	347	32	12	Multicolored Blue carpet of glue	N/F
	340	33*		of cls floor	
	342	34	13	coarse of glue	N/F
	314	35			
	Above D.C.P.	36	14	Grey mastic @ metal ducts	N/F
	Above D.C.P.	37		SEAMS	
	Above D.C.P.	38			
	Balcony	39	15	6" Red C.T. floor of ground & thuse	N/F
	Balcony	40			
	Balcony	41	16	Stucco	N/F
	Balcony	42			
	Balcony	43			
	Balcony	44			
	Balcony	45			
	Extension	46	17	Door Frame Caulk	N/F
	Extension	47			
	Extension	48	18	Window Frame Caulk	N/F
	Extension	49			
	Corridor 1	50	19	Multicolored Blue Carpet of F.T. of black mastic	



Appendix 3  
Survey Certifications

STATE OF FLORIDA  
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION  
ASBESTOS LICENSING UNIT

LICENSE NUMBER

ZA0000001



The ASBESTOS BUSINESS ORGANIZATION  
Named below IS LICENSED  
Under the provisions of Chapter 469 FS.  
Expiration date: NOV 30, 2015

APOLLO ENVIRONMENTAL INC  
ROBERT DAVID MITCHELL  
11553 US HIGHWAY 41 SOUTH  
GIBSONTON FL 33534



RICK SCOTT  
GOVERNOR

ISSUED: 09/17/2013 SEQ # L1309170004165  
DISPLAY AS REQUIRED BY LAW

KEN LAWSON  
SECRETARY

# State of Florida

Board of Professional Engineers

Attests that

Robert David Mitchell, P.E.



Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2015

Audit No: 228201501300

P.E. Lic. No:

45325

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AC# 6330373

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION  
ASBESTOS LICENSING UNIT

SEQ# L12083105864

DATE	BATCH NUMBER	LICENSE NBR
08/31/2012	120100197	DD0000007

The ASBESTOS CONSULTANT  
Named below IS LICENSED  
Under the provisions of Chapter 469 FS.  
Expiration date: NOV 30, 2014

MITCHELL, ROBERT DAVID  
APOLLO ENVIRONMENTAL INC  
2521 GABRIEL RD  
FORT MEADE FL 33841

RICK SCOTT  
GOVERNOR

DISPLAY AS REQUIRED BY LAW

KEN LAWSON  
SECRETARY

United States Department of Commerce  
National Institute of Standards and Technology



---

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

---

NVLAP LAB CODE: 101871-0

**Apollo Environmental, Inc.**  
Gibsonton, 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 Communique dated January 2009).*

2013-10-01 through 2014-09-30

*Effective dates*



A handwritten signature in black ink, appearing to read 'William R. Mallard', is written over a horizontal line.

*For the National Institute of Standards and Technology*

# McCRONE RESEARCH INSTITUTE

*certifies that*

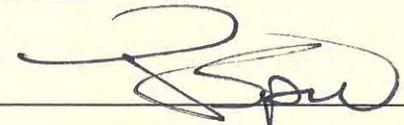
*Lara A. Davis*

*has successfully completed an intensive course of instruction in*

*Microscopical Identification of Asbestos*

*given by the McCrone Research Institute*

*Presented this 14<sup>th</sup> day of April, 2006*



*Gary J. Laughlin*

*Course Date: April 10-14, 2006*

*3.5 CEU's*

# McCRONE RESEARCH INSTITUTE

*certifies that*

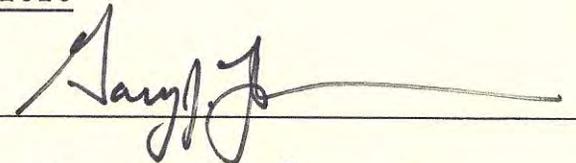
*Lara A. Davis*

*has successfully completed an intensive course of instruction in*

*Advanced Asbestos Identification*

*given by the McCrone Research Institute*

*Presented this 19th day of November, 2010*



---

*Lucy B. McCrone*

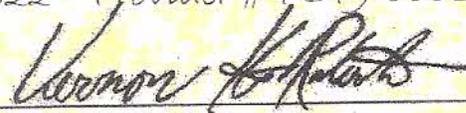
---

Vern Roberts Environmental Training, Inc.  
13987 94<sup>th</sup> Avenue N Seminole, FL 33776  
727-593-3067  
Asbestos Survey & Mechanical (inspector) Refresher  
Training

This is to Certify that  
Victor Rivera

Has completed the requisite training for asbestos accreditation  
under TSCA TITLE II  
Date of Examination 7/13/13

Date of Course: 7/13/13 Expiration Date 7/13/14  
Certificate #713133  
Course # FL49-0006326322 Provider # FL49-0003810



Instructor