



ASBESTOS PRE-DEMOLITION SURVEY REPORT

INSPECTION SITE:



CLIENT:

Lesley Groff



INSPECTOR:

Ryan Ebenhack

(CT Inspector License #000418)

INSPECTION DATE:

August 17, 2012

BUILDING TYPES:

Residential

SAMPLES COLLECTED:

40 collected / 40 analyzed

BACKGROUND

The building at the above referenced location is slated for demolition. Lesley Groff, hired HYGENIX, Inc. to document the presence of asbestos-containing building materials (ACBM'S), and to comment on the impact these materials will have on the proposed demolition project. The results of the asbestos survey are presented in this report. Please note that the residence was occupied at the time of the inspection.

ASBESTOS SAMPLING PROTOCOL

During the inspection of accessible spaces, the inspectors identified "functional spaces or building systems" (e.g. dwelling spaces, storage rooms, boiler rooms, roof systems, heating systems, etc.), and categorized the construction materials within functional spaces and/or system as "homogeneous", based on uniformity in color, age, texture and use. The inspector then compiled a list of building materials suspected to contain asbestos, and recorded the condition, location and approximate quantity of homogeneous, suspect materials.

From each homogeneous area or building system, the inspectors collected representative "bulk" samples of construction materials suspected to contain asbestos.

Samples of suspect materials were analyzed at AmeriSci New York by polarized light microscopy (PLM) in accordance with EPA procedures. The National Voluntary Laboratory Approval Program (NVLAP) accredits AmeriSci New York to perform bulk asbestos analysis.

INTERPRETATION OF TEST RESULTS

The regulations of CT Department of Public Health and the US EPA define *asbestos containing materials* (ACM's) as materials containing greater than 1-% asbestos. If one or more bulk samples of a homogeneous material are found to contain greater than 1-% asbestos, then all of the homogeneous material is classified as ACM.

The US OSHA Asbestos Construction Industry Standard requires designation as *presumed asbestos containing materials* (PACM's), all surfacing materials and thermal system insulation which have not been tested, or for which the number of samples collected and analyzed was less than the previously listed minimums. This requirement does not apply if the building in which the material is found was constructed after 1980.

The results of the PLM laboratory testing are summarized in Appendix A.

GENERAL DISCUSSION - ASBESTOS ABATEMENT REGULATIONS

Asbestos management and abatement activities in the State of Connecticut are governed by the following State and federal regulations:

1. US EPA National Emission Standards for Hazardous Air Pollutants (NESHAPs)

The NESHAPs regulations for asbestos prohibit the emission of airborne asbestos dust to the environment. These regulations require notification of the regional office of US EPA at least 10 days in advance of an asbestos abatement project involving more than 260 linear feet, 160 square feet, or 35 cubic feet of material containing more than 1% asbestos. The NESHAPs regulations require the asbestos-containing materials to be kept in a wet condition during handling and removal, and specify requirements for labeling, transport and disposal of asbestos waste.

2. US OSHA Asbestos Construction Industry Standard

The OSHA Asbestos Construction Industry Standard protects workers who may be exposed to asbestos in construction. The OSHA standard specifies permissible exposure limits, and procedures for handling various forms and quantities of asbestos containing building materials. The standard describes regulated areas, exposure monitoring, respiratory protection and protective clothing, hygiene facilities, hazard communication, housekeeping, medical surveillance, record keeping, and worker training requirements.

3. CT DOPH CT Standards for Asbestos Abatement

The CT regulations describe the allowable procedures for asbestos abatement, licensing of personnel involved in asbestos abatement, and reoccupancy testing requirements. A 10-day advance notification of the agency is required for asbestos removal projects involving more than 25 square feet or 10 linear feet of interior friable and/or non-friable asbestos-containing material.

PRE-DEMOLITION INVENTORY OF ASBESTOS CONTAINING BUILDING MATERIALS:

All asbestos containing materials must be removed from the building prior to demolition activities that will disturb them. A Connecticut licensed asbestos abatement contractor must remove the asbestos containing materials and a clearance must be performed by a Connecticut licensed project monitor.

ACBM Description	Location (s) in Building	Estimated Quantity	Comments (Tested or Assumed)
Mirror glue	1 st floor bedroom bathroom	1 large mirror	Not tested assumed to be ACM

INVENTORY OF NON-ASBESTOS CONTAINING BUILDING MATERIALS:

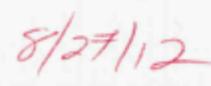
- Kitchen flooring
- Den flooring
- Drywall
- Flue packing
- Building paper
- Plaster
- Joint compound
- Sink insulation
- Cove base glue
- Window glazing
- Ceramic tile glue

DISCLAIMER

HYGENIX, Inc. has performed its services, within the limits prescribed by our clients, with the usual thoroughness and competence of the industrial hygiene profession. The findings in this report are based upon observations and information available to the inspector during the time of the rendering of the services as described in this report and are based on procedures currently required by applicable laws, regulations and ordinances. HYGENIX cannot be responsible for conditions or materials the inspector did not observe due to lack of access or was not otherwise reasonably observable. The conclusions in this report are professional opinions based solely upon these findings. The findings and conclusions are intended exclusively for the purpose outlined herein within the scope of work and at the site location and project indicated. This report is for the sole use of the client. The scope of work performed in execution of this inspection may not be appropriate to satisfy the needs of other users and any reuse of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of said user.



Ryan Ebenhack
HYGENIX, Inc.



Date

APPENDIX A

PLM BULK ASBESTOS ANALYSIS REPORTS



Please Reply To:

AmeriSci New York

117 EAST 30TH ST.
NEW YORK, NY 10016

TEL: [REDACTED]

FACSIMILE TELECOPY TRANSMISSION

To: Robert Brown
Hygenix, Inc.

Fax #:

Email: [REDACTED]

From: Bella J. Chernis
AmeriSci Job #: 212084268
Subject: PLM 5 day Results
Client Project: [REDACTED]

Date: Wednesday, August 22, 2012

Time: 19:55:02

Comments:

Number of Pages: //
(including cover sheet)

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Certified Analysis Service 24 Hours A Day • 7 Days A Week Competitive Prices
visit our web site - [REDACTED]

Boston • Los Angeles • New York • Richmond



AmeriSci New York

117 EAST 30TH ST.
NEW YORK, NY 10016

TEL. [REDACTED]

PLM Bulk Asbestos Report

Hygenix, Inc.
Attn: Robert Brown
[REDACTED]

Date Received 08/18/12

Date Examined 08/22/12

AmeriSci Job # 212084268

[REDACTED] #

Page 1 of 8

RE: [REDACTED]

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8-17-01 Location: Kitchen / Glue	212084268-01	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
8-17-02 Location: Kitchen / 12x12 Floor Tile	212084268-02	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: White/Black, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
8-17-03 Location: Kitchen / Glue	212084268-03	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
8-17-04 Location: Kitchen / 12x12 Floor Tile	212084268-04	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: White/Black, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
8-17-05 Location: Kitchen / Glue	212084268-05	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report



Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8-17-06 Location: Kitchen / 12x12 Floor Tile	212084268-06	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: White/Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
8-17-07 Location: Kitchen / Building Paper	212084268-07	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 40 %, Non-fibrous 60 %			
8-17-08 Location: Exterior / Building Paper	212084268-08	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 5 %, Fibrous glass 12 %, Non-fibrous 83 %			
8-17-09 Location: Exterior / Building Paper	212084268-09	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Black, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 8 %, Fibrous glass 8 %, Non-fibrous 84 %			
8-17-10 Location: Kitchen / Cove Base Glue	212084268-10	Yes	Trace (<1 %) ¹ (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile <1. % Other Material: Non-fibrous 100 %			
8-17-11 Location: Kitchen / Cove Base Glue	212084268-11	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report



Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8-17-12 Location: Kitchen / Cove Base Glue	212084268-12	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
8-17-13 Location: Den / Glue	212084268-13	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
8-17-14 Location: Den / 12x12 Floor Tile	212084268-14	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
8-17-15 Location: Den / Glue	212084268-15	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
8-17-16 Location: Den / 12x12 Floor Tile	212084268-16	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Green, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
8-17-17 Location: Den / Glue	212084268-17	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report



Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8-17-18 Location: Den / 12x12 Floor Tile	212084268-18	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Green, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
8-17-19 Location: 2nd / Plaster - White	212084268-19	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
8-17-20 Location: 2nd / Plaster - Grey	212084268-20	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
8-17-21 Location: 1st / Plaster - White	212084268-21	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
8-17-22 Location: 1st / Plaster - Grey	212084268-22	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Animal hair Trace, Non-fibrous 100 %			
8-17-23 Location: Kitchen / Plaster - White	212084268-23	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report



Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8-17-24 Location: Kitchen / Plaster - Grey	212084268-24	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
8-17-25 Location: Window / Glazing	212084268-25	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: White/Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
8-17-26 Location: Window / Glazing	212084268-26	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: White/Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
8-17-27 Location: Window / Glazing	212084268-27	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: White/Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
8-17-28 Location: Attic / Dryall	212084268-28	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: OffWhite, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 25 %, Non-fibrous 75 %			
8-17-29 Location: Mech Room / Drywall	212084268-29	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: OffWhite, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 30 %, Non-fibrous 70 %			

See Reporting notes on last page

PLM Bulk Asbestos Report



Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8-17-30 Location: Garage / Drywall	212084268-30	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: OffWhite, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 20 %, Fibrous glass 2 %, Non-fibrous 78 %			
8-17-31 Location: 2nd Floor / Joint Compound	212084268-31	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
8-17-32 Location: Attic / Joint Compound	212084268-32	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
8-17-33 Location: Garage / Joint Compound	212084268-33	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
8-17-34 Location: Mech Room / Flue Packing	212084268-34	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Wollastonite 2 %, Non-fibrous 98 %			
8-17-35 Location: Mech Room / Flue Packing	212084268-35	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Wollastonite 2 %, Non-fibrous 98 %			

See Reporting notes on last page

PLM Bulk Asbestos Report



Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8-17-36 Location: Mech Room / Flue Packing	212084268-36	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Wollastonite 3 %, Non-fibrous 97 %			
8-17-37 Location: 2-nd Bath/Ceramic Tile Glue	212084268-37	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
8-17-38 Location: 2-nd Bath/Ceramic Tile Glue	212084268-38	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
8-17-39 Location: Kitchen/Sink Insulation	212084268-39	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
8-17-40 Location: Kitchen/Sink Insulation	212084268-40	No	NAD (by CVES) by Bella J. Chernis on 08/22/12
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report



Reporting Notes:

(1) TEM confirmation of PLM results recommended

Handwritten signature in blue ink, appearing to read "Bella Chen".

Analyzed by: Bella J. Chernis

*NAD/NSD =no asbestos detected; NA =not analyzed; NA/PS=not analyzed/positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200546-0), ELAP PLM Method 198.1 for NY friable samples or 198.6 for NOB samples (NY ELAP Lab ID11480);

Note:PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile, FR 59,146,38970,8/1/94) National Institute of Standards and Technology

Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab. This PLM report relates ONLY to the items tested. AIHA Lab # 102843, RI Cert#AAL-094, CT Cert#PH-0186, Mass Cert#AA000054.

Reviewed By: _____ END OF REPORT _____

Results to

212084268

BULK SAMPLE LOG

Client: Lesley Groff

Site:

Type: PLM

Tech: RE

Date 8/17/12

HYGENIX, Inc.



Environmental Consulting & Laboratory Services
49 Woodside Street
Stamford, CT 06902
(fax)

LAB ID#	SAMPLE #	SAMPLING LOCATION	DESCRIPTION	QTY.	RESULT
	8-17-01	Kitchen	Glue		
	8-17-02	Kitchen	12x12 Floor tile		
	8-17-03	Kitchen	Glue		
	8-17-04	Kitchen	12x12 Floor tile		
	8-17-05	Kitchen	Glue		
	8-17-06	Kitchen	12x12 Floor tile		
	8-17-07	Kitchen	Building paper		
	8-17-08	Exterior	Building paper		
	8-17-09	Exterior	Building paper		
	8-17-10	Kitchen	Cove base glue		
	8-17-11	Kitchen	Cove base glue		
	8-17-12	Kitchen	Cove base glue		
	8-17-13	Den	Glue		
	8-17-14	Den	12x12 floor tile		
	8-17-15	Den	Glue		
	8-17-16	Den	12x12 floor tile		
	8-17-17	Den	Glue		
	8-17-18	Den	12x12 floor tile		

CHAIN OF CUSTODY

Notes: Till Positive, 5 Day TAT
* If mastic is positive does not read the tile. If tile is positive, do not read other tile and adhesive layers

Relinquished By: [Signature] Date/Time: 8/17/12

Received By: [Signature] Date/Time: 8/18/12

Ebenhack

212084268

BULK SAMPLE LOG

Client: Lesley Groff

Site:



Type: PLM

Tech: RE

Date 8/17/12

HYGENIX, Inc.



Environmental Consulting & Laboratory Services
49 Woodside Street
Stamford, CT 06902
[Redacted] (fax)

LAB ID#	SAMPLE #	SAMPLING LOCATION	DESCRIPTION	QTY.	RESULT
	8-17-19	2 nd	Plaster - White		
	8-17-20	2 nd	Plaster - grey		
	8-17-21	1 st	Plaster - White		
	8-17-22	1 st	Plaster - grey		
	8-17-23	Kitchen	Plaster - White		
	8-17-24	Kitchen	Plaster - grey		
	8-17-25	Window	Glazing		
	8-17-26	Window	Glazing		
	8-17-27	Window	Glazing		
	8-17-28	Attic	Drywall		
	8-17-29	Mech Room	Drywall		
	8-17-30	Garage	Drywall		
	8-17-31	2 nd floor	Joint compound		
	8-17-32	Attic	Joint compound		
	8-17-33	Garage	Joint compound		
	8-17-34	Mech Room	Flue packing		
	8-17-35	Mech Room	Flue packing		
	8-17-36	Mech Room	Flue packing		

CHAIN OF CUSTODY

Relinquished By: [Redacted] Date/Time: 8/17/12 Received By: [Signature] Date/Time: 8/17/12

8-17-77
58
59
40

2nd Bath
Kitchen

Ceramic Tile Glue
Sink insulation

Notes: Till Positive, 5 Day TAT
* If mastic is positive does not read the tile. If tile is positive, do not read other tile and adhesive layers