

**HazCorp Environmental Services, Inc.**

404 S. Reynolds Road  
Toledo, Ohio 43615  
Telephone (419) 537-6000  
Fax (419) 537-8774



May 12, 2008

Denise Fox  
Aurora Project  
1035 N. Superior Street  
Toledo, Ohio  
Telephone: 419.244.3200  
Facsimile: 419.244.3291

**Re: Pre-Demolition Asbestos Inspection 1017 Superior Street**

Dear Ms. Fox,

On Monday May 5, 2008 HazCorp Environmental Services Inc. performed an asbestos inspection at the referenced address.

Asbestos is a mineral that was used for over 100 years in over 3000 building materials; it was used for its unique heat resistant qualities and also because it was exceptionally strong. It was used as insulation on piping in buildings with steam heat. It was used as a binder together with Portland cement to manufacture Transite cement products. It was added to roofing felts to increase their heat resistance and to add strength to the felts. It was used in the manufacture of floor tile and mastic and also used in window glazing (caulk) to add strength to the glazing.

The purpose of the inspection was to comply with the United States Environmental Protection Agencies (USEPA) National Emission Standards for Hazardous Air Pollutants (NESHAP's) regulations. Asbestos is recognized as a Hazardous Air Pollutant under this regulation. All friable asbestos containing materials (in sufficient quantities) or non-friable materials that may become friable (in sufficient quantities) during the demolition process must be removed prior to demolition of a structure.

It is important to recognize that certain asbestos containing materials may remain in a building undergoing conventional demolition. All non-friable Category I asbestos containing materials which includes resilient floor coverings such as linoleum and vinyl asbestos floor tiles and roofing materials may remain in a structure slated for conventional demolition. Conventional demolition is defined as using heavy equipment and hand labor to demolish a structure. If however, the structure is to be demolished through conventional methods and then ground up on site, the above materials must be removed prior to demolition of the structure. The demolition contractor should be made aware of the presence of these materials.

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The Occupational Safety and Health Administration (OSHA) adopted the US EPA's sampling guidelines as outlined in the Asbestos Hazard Emergency Response Act of 1986 (AHERA). Under these rules, sampling areas are divided into homogeneous areas. Homogeneous areas or materials are defined as building materials that look alike, that appear to have been installed at the same time and that are used for the same purpose.

The regulations require specific numbers of samples be obtained per homogeneous area. For example when sampling for joint compound or asbestos in hard plaster (sprayed-on or troweled-on surfacing materials) samples are to be taken based on the following increments: 0 to 1000 square feet of material, 3 samples are necessary. From 1001 to 5000 square feet, 5 samples are necessary, over 5000 square feet 7 samples are required. If during analysis any samples are found to contain asbestos, the entire homogeneous area is delineated as asbestos containing material.

The materials listed below were encountered in the survey of the subject property and are considered suspect ACM. Samples of these suspect materials were collected and analyzed via Polarized Light Microscopy, the laboratory results are as follows:

<u>Sample ID#</u>	<u>Material/Location</u>	<u>% Asbestos</u>
107-1	Hard Plaster Various Areas	No asbestos detected
107-2	Hard Plaster Various Areas	No asbestos detected
107-3	Hard Plaster Various Areas	No asbestos detected
107-4	Hard Plaster Various Areas	No asbestos detected
107-5	Hard Plaster Various Areas	No asbestos detected
107-6	Hard Plaster Various Areas	No asbestos detected
107-7	Hard Plaster Various Areas	No asbestos detected

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Asbestos Containing Materials

Samples of asbestos containing pipe insulation in the basement and the Transite (asbestos containing) roofing were not obtained and analyzed. The material in the basement is in extremely poor condition and we did not want to disturb it (to obtain a sample) without proper engineering controls. The Transite roof shingles are not accessible without a lift or extension ladder.

In the basement there is approximately 100 square feet of asbestos pipe insulation. This material is friable and must be removed by a licensed asbestos abatement contractor prior to demolition of the building.

Viewed from the street the front right hand  $\frac{1}{4}$  of the roof contains Transite shingles, this area is approximately 1500 square feet in area. Transite shingles are mixture of Chrysotile asbestos and Portland cement. They are considered Category II non-friable materials. However during the demolition process they can be expected to be made friable by the use of heavy equipment, therefore they must be removed prior to demolition of the building.

Asbestos Nomenclature

Intact as defined by the Occupational Safety and Health Administration means "the ACM has not crumbled, been pulverized, or otherwise deteriorated so that the asbestos is no longer likely to be bound with its matrix."

The United States Environmental Protection Agency uses the terms friable and non-friable to categorize different types of asbestos containing building materials. Friable asbestos material includes any material containing more than 1% asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

Limits of Report

We feel that our survey encompassed all of the suspect asbestos containing materials in the building however, there may be further asbestos containing materials in areas that are currently inaccessible. If any additional suspect materials are encountered in the demolition/renovation process, work should be halted until the material in question is analyzed.

Please find included with this report; the completed chain of custody form and the laboratory analytical results from Environmental Hazards Services Inc.

Quantities of asbestos described in this report are estimates that we believe are fairly accurate. However, HazCorp is not responsible for asbestos containing building materials hidden behind walls, under layers of carpet or other sheet goods, floor tile etc...

Due to the deteriorating condition of this building there are areas where it is unsafe to venture, therefore the demolition contractor should be on the lookout for any asbestos containing materials that are friable or that may become friable during the demolition process.

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Asbestos Containing Materials

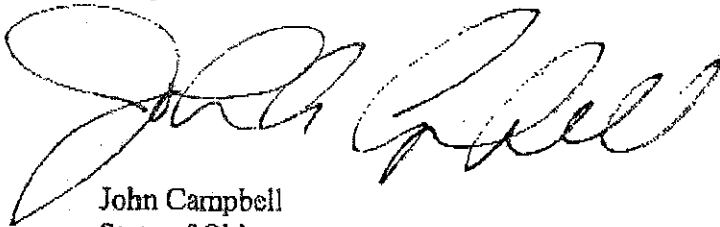
Materials that contain more than 1% asbestos are considered regulated asbestos containing materials (RACM). These materials must be removed by a licensed asbestos abatement contractor.

Sampling

The sampling was accomplished in a manner in accordance with the recently promulgated revised final rules and regulations regarding asbestos in general industry (29 CFR Part 1910.1001 Asbestos). An essential provision of the final rule is that building materials that have historically been manufactured with asbestos must be presumed to contain asbestos unless demonstrated otherwise by inspection, sampling and analysis. This rebuttable presumption applies to suspect thermal system insulation, sprayed or troweled-on surfacing material and floor tile and mastic installed no later than 1980.

The samples were either collected with a coring tool designed for asbestos sampling or placed into a plastic bag for laboratory analysis. The samples were analyzed via polarized light microscopy with dispersion staining, using the "Interim method for the Determination of Asbestos in Bulk Insulation Samples" found in Appendix A to Subpart F in 40 CFR Part 763. The samples were analyzed by Environmental Hazards Services Inc., 7469 White Pine Road Richmond, Virginia 23237.

Respectfully,



John Campbell  
State of Ohio  
Dept. of Health  
Certified Asbestos Hazard  
Evaluation Specialist  
Certification No. 32329

**ENVIRONMENTAL HAZARDS SERVICES, L.L.C.**

7469 WHITE PINE ROAD - RICHMOND, VA 23237

804-275-4788 FAX 804-275-4907

**BULK ASBESTOS SAMPLE ANALYSIS SUMMARY**

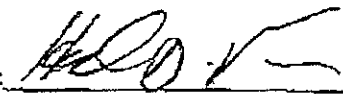
CLIENT: HAZCORP Environmental Services, Inc. DATE OF RECEIPT: 08 May 2008  
 404 S. Reynolds Road DATE OF ANALYSIS: 08 May 2008  
 Toledo, OH 43615 DATE OF REPORT: 09 May 2008

CLIENT NUMBER: 36-2154 SA  
 EHS PROJECT #: 2008-05-0462  
 PROJECT: 2008-107

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
01	107-1/ Beige Gran.	NAD	100% Non-Fibrous
02	107-2/ Tan Gran.	NAD	100% Non-Fibrous
03	107-3/ Off-White Gran.; Brown Fib.	NAD	8% Cellulose 92% Non-Fibrous
04	107-4/ Beige/Tan Gran.	NAD	100% Non-Fibrous
05	107-5/ Tan Gran.	NAD	100% Non-Fibrous
06	107-6/ Tan Gran.	NAD	100% Non-Fibrous
07	107-7/ Tan Gran.; Brown Fib.	NAD	8% Cellulose 92% Non-Fibrous

QC SAMPLE: M1-1998-4  
 QC BLANK: SRM 1866 Fiberglass  
 REPORTING LIMIT: 1% Asbestos  
 METHOD: Polarized Light Microscopy, EPA Method 600/R-93/116 \*  
 ANALYST: Melissa Boggs Steiniger

Reviewed By Authorized Signatory:



Michael A. Mueller, MPH, Laboratory Director  
 Howard Varner, General Manager  
 Irma Faszewski, Quality Assurance Coordinator

**ENVIRONMENTAL HAZARDS SERVICES, L.L.C.**

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The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2318 NY ELAP #11714. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), for enhanced detection capabilities) for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

\* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

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LEGEND      NAD = no asbestos detected  
              SCF = suspected ceramic fibers

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pim1.dot/07MAR2006/REV2/ MR

-- PAGE 02 of 02 -- END OF REPORT --



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EHS 2008-05-0462

### Asbestos/Lead Analysis Request

Aurora House Client Name			J. CAMPBELL Sampler			Asbestos (PLM)	Asbestos (PCM)	Lead	Wipe Area (in <sup>2</sup> )	Comments				
Address														
2008-107 Project No.		1017 SUPERIOR Project Name												
CRUISING CONSTRUCTION Client Contact					Client Phone									
Sample No.	Sample Type A = Air B = Bulk W = Wipe	Date	Sample Description											
107-1	Bulk	5-5-08	HAND PLASTER VARIOUS AREAS			✓								
107-2			"			✓								
107-3			"			✓								
107-4			"			✓								
107-5			"			✓								
107-6			"			✓								
107-7			"			✓								
<p>Samplers Signature: <i>J. Campbell</i></p> <p>Date: 5-7-08 Time: 12:00</p> <p>Samples Relinquished By: <i>J. Campbell</i></p> <p>Samples Received By: <i>M. [unclear]</i> 5/8/08</p>														