



Hazardous Materials Inspection

Facility Owner Hope College	Facility I.D. Theil 9 East 10th Street Holland, MI 49423
Site Contact Mr. Jerry Gunnink 178 East 11 th Street Holland, MI 49423 Telephone: 616-395-7999	Asbestos Identified in Bldg. ☒ Yes ☐ No Number of Floors 2 Basement ☒ Yes ☐ No Approximate Sq. Ft. 8,000
Project No. Date of Inspection Name of Inspector Inspector Accreditation No.	G080483A89 August 11, 1008 Mr. Christopher D. Carew A35073
Reference Documents	Table 1 – Description of Homogeneous Materials Table 2 – Bulk Sample Location Log Table 3 – Summary of Asbestos-Containing Homogeneous Materials Table 4 – Lead-Based Paint Results Appendix 1 – Analytical Results

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Tables

Table 1 - Description of Homogeneous Materials

Hazardous Materials Inspection Report

Inspection Date: August 11, 2008

Hope College, Theil

HA Number	Material Description	Material Type	Asbestos Containing?
1	Drywall	SM	N
2	2' x 2' suspended ceiling tiles	MM	N
3	Carpet mastic (yellow)	MM	N
4	Stair treads (brown with white)	MM	N
5	4" cove base (taupe)	MM	N
7	12" x 12" floor tile (tan/brown)	MM	N
8	Fire doors	MM	Y
9	4" cove base (blue)	MM	N
10	Caulk	MM	N

Notes:

MM Miscellaneous Material
TSI Thermal System Insulation
SM Surfacing Material
HA Homogeneous Area

Note - No samples taken of HA-8; assumed asbestos containing.

Table 2 - Bulk Sample Location Log

Hazardous Materials Inspection Report

Inspection Date: August 11, 2008

Hope College, Theil

Sample Number	Sample Location	Asbestos %	Notes
THI-1-1	Ladder room	None Detected	
THI-1-2	Ladder room	None Detected	
THI-1-3A	Archive B, NE corner	None Detected	White texture
THI-1-3B	Archive B, NE corner	None Detected	Drywall
THI-1-4A	Archive A, SW corner	None Detected	White texture
THI-1-4B	Archive A, SW corner	None Detected	Drywall
THI-1-5	Mechanical room, south wall	None Detected	
THI-1-6	Woman's bathroom, NW corner	None Detected	
THI-1-7A	Basement, south end column	None Detected	White texture
THI-1-7B	Basement, south end column	None Detected	Drywall
THI-2-1	Room 11, ceiling, south section	None Detected	
THI-3-1	Room 11, near door	None Detected	
THI-4-1A	Basement stairs, west wall, stop step	None Detected	Stairtread
THI-4-1B	Basement stairs, west wall, stop step	None Detected	Mastic
THI-5-1A	Basement stairs, west wall, stop step	None Detected	Cove base
THI-5-1B	Basement stairs, west wall, stop step	None Detected	Mastic
THI-7-1	Basement stairs, west wall, stop step	None Detected	
THI-9-1A	Archive B	None Detected	Cove base
THI-9-1B	Archive B	None Detected	Mastic
THI-10-1	Side of building	None Detected	

Table 3 - Summary of Asbestos-Containing Homogeneous Materials
Hazardous Materials Inspection Report
Inspection Date: August 11, 2008
Hope College, Theil

HA Number	Material Description	Quantity	Unit
8	Fire doors	11	ea.

HA Homogeneous Area
ea. each

HA-8 not sampled; assumed to be asbestos containing.

Table 4 - Summary of Paint Chip Sample Results

Hazardous Materials Inspection Report

Inspection Date: August 11, 2008

Hope College, Theil

Sample ID	Sample Site	Description	Lead Concentration (% by wt)
THL-Pb-6-1	South basement stairs wall	Off-white	<0.01
THL-Pb-6-2	Front entry, NE, wall		<0.01
THL-Pb-6-3	Archive A, SW wall	White	0.01
THL-Pb-6-4	Wall	Gray, exterior	<0.01

Appendix 1



EMSL Analytical

2001 East 52nd St., Indianapolis, IN 46205

Phone: (317) 803-2997 Fax: (317) 803-3047 Email: indianapolislaboratory@emsl.com

Attn: **Dave Lutkenhoff**
Fishbeck, Thompson, Carr & Huber
1515 Arboretum Drive SE
Grand Rapids, MI 49546

Customer ID: FTCH62
Customer PO: G080483/A89
Received: 08/19/08 10:10 AM
EMSL Order: 160812760

Fax: (616) 464-3992 Phone: (616) 575-3824
Project: **G080483/A89 THI**

EMSL Proj:
Analysis Date: 9/3/2008
Report Date: 9/3/2008

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

Sample	Location	Appearance	Non-Asbestos			Asbestos
			%	Fibrous	% Non-Fibrous	% Type
THI-1-1 160812760-0001		White/Brown Fibrous Heterogeneous	30% 5%	Cellulose Glass	60% Gypsum 5% Non-fibrous (other)	None Detected
THI-1-2 160812760-0002		White/Brown Fibrous Heterogeneous	30% 5%	Cellulose Glass	60% Gypsum 5% Non-fibrous (other)	None Detected
THI-1-3/A texture 160812760-0003		White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
THI-1-3/B drywall 160812760-0003A		White Fibrous Heterogeneous	75% 2%	Cellulose Glass	18% Gypsum 5% Non-fibrous (other)	None Detected
THI-1-4/A texture 160812760-0004		White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
THI-1-4/B drywall 160812760-0004A		White Fibrous Heterogeneous	20% 5%	Cellulose Glass	70% Gypsum 5% Non-fibrous (other)	None Detected
THI-1-5 160812760-0005		White Fibrous Heterogeneous	20% 5%	Cellulose Glass	70% Gypsum 5% Non-fibrous (other)	None Detected
THI-1-6 160812760-0006		White Fibrous Heterogeneous	40% 5%	Cellulose Glass	50% Gypsum 5% Non-fibrous (other)	None Detected

Analyst(s)

Craig Nixon (20)

Richard Harding, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

ACCREDITATION: NVLAP Lab Code 200188-0



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Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
THI-1-7/A texture 160812760-0007		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
THI-1-7/B drywall 160812760-0007A		White Fibrous Heterogeneous	40% Cellulose 5% Glass	50% Gypsum 5% Non-fibrous (other)	None Detected
THI-2-1 160812760-0008		White Fibrous Homogeneous	95% Min. Wool	5% Non-fibrous (other)	None Detected
THI-3-1 160812760-0009		Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
THI-4-1/A stairtread 160812760-0010		Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
THI-4-1/B mastic 160812760-0010A		Cream Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
THI-5-1/A cove base 160812760-0011		Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
THI-5-1/B mastic 160812760-0011A		Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Report Date: 9/3/2008

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

Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
THI-7-1 160812760-0012		Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
THI-9-1/A cove base 160812760-0013		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
THI-9-1/B mastic 160812760-0013A		Clear Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
THI-10-1 160812760-0014		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Project: **HOPE COLLEGE/G080483 A89/THI**

Customer ID: FTCH62
Customer PO: G080483 A89
Received: 08/19/08 10:10 AM
EMSL Order: 160812184

EMSL Proj:

Report Date: 8/27/2008

Lead in Paint Chips by Flame AAS (SW 846 3050B and 7420*)

Lab ID:	Analyzed	RDL	Lead Concentration	Notes
0001	8/27/2008	0.01 % wt	<0.01 % wt	
Client Sample THL-PB-6-1				Collected: 8/15/2008
0002	8/27/2008	0.01 % wt	<0.01 % wt	
Client Sample THL-PB-6-2				Collected: 8/15/2008
0003	8/27/2008	0.01 % wt	0.01 % wt	
Client Sample THL-PB-6-3				Collected: 8/15/2008
0004	8/27/2008	0.01 % wt	<0.01 % wt	
Client Sample THL-PB-6-4				Collected: 8/15/2008

Doug Wiegand, Laboratory Manager
or other approved signatory

Reporting limit is 0.01 % wt. The QC data associated with these sample results included in this report meet the method quality control requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities.

* slight modifications to methods applied Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted

ACCREDITATIONS: AIHA ELLAP 157245

Date Printed: 8/27/2008 4:06:13 PM

PB w/RDL