



Hazardous Materials Inspection

Facility Owner Hope College	Facility I.D. Physical Plant 200 East 9th 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 1 Basement ☐ Yes ☒ No Approximate Sq. Ft. 16,800
Project No. Date of Inspection Name of Inspector Inspector Accreditation No.	G080483A69 September 17, 2008 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 – Floor Plans Showing Sample Sites Appendix 2 – Analytical Results

R:\080483\HAZMAT\INSPFIELD\MERGEFORM.DOC

Tables

Table 1 - Description of Homogeneous Materials
Hazardous Materials Inspection Report
Inspection Date: September 17, 2008
Hope College, Physical Plant Building

HA Number	Material Description	Material Type	Asbestos Containing?
1	Drywall	SM	N
2	Carpet mastic (yellow)	MM	N
3	4" cove base and mastic (gray)	MM	N
4	2' x 4' ceiling tile	MM	N
5	12" x 12" vinyl tile and mastic (gray)	MM	N
6	12" x 12" vinyl tile and mastic (gray streaks)	MM	N
7	12" x 12" ceiling tile	MM	N
8	12" x 12" vinyl tile and mastic (gray)	MM	N
9	12" x 1" ceiling tile	MM	N
10	12" x 12" vinyl tile and mastic (tan)	MM	N
11	4" cove base and mastic (light brown)	MM	N
12	Window caulk	MM	Y
13	Putty (black/gray)	MM	Y

Notes:

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

Table 2 - Bulk Sample Location Log

Hazardous Materials Inspection Report

Inspection Date: September 17, 2008

Hope College, Physical Plant Building

Sample Number	Sample Location	Asbestos %	Notes
PP-1-1	South central office, NW corner	None Detected	
PP-1-2	Office "B", east wall	None Detected	
PP-1-3	SW warehouse, near SE corner, east wall	None Detected	
PP-1-4	SW warehouse, east wall, center	None Detected	
PP-1-5	SW warehouse, east wall, 10' from NE corner	None Detected	
PP-2-1	Main entrance hall by west office	None Detected	
PP-3-1A	West men's bathroom, west wall	None Detected	Gray cove base
PP-3-1B	West men's bathroom, west wall	None Detected	Mastic
PP-4-1	Men's bathroom, east wall, above sink	None Detected	
PP-5-1A	West men's bathroom, at door	None Detected	Floor tile
PP-5-1B	West men's bathroom, at door	None Detected	Mastic
PP-6-1A	West men's bathroom, at door	None Detected	Floor tile
PP-6-1B	West men's bathroom, at door	None Detected	Mastic
PP-7-1	Unisex bathroom, south wall	None Detected	
PP-8-1	Lunch room, at west door	None Detected	No mastic present
PP-9-1	Office "A", SW corner	None Detected	
PP-10-1	North grounds office, NW corner	None Detected	No mastic present
PP-11-1	North grounds office, NW corner	None Detected	
PP-12-1	Main office, west side, north window	2% Chrysotile	
PP-13-1	South side of main office south window	15% Chrysotile	

Table 3 - Summary of Asbestos-Containing Homogeneous Materials
Hazardous Materials Inspection Report
Inspection Date: September 17, 2008
Hope College, Physical Plant Building

HA Number	Material Description	Quantity	Unit
12	Window caulk	55	l.f.
13	Putty (black/gray)	25	l.f.

HA Homogeneous Area
l.f. linear feet

Table 4 - Summary of Paint Chip Sample Results

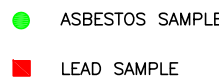
Hazardous Materials Inspection Report

Inspection Date: September 17, 2008

Hope College, Physical Plant Building

Sample ID	Sample Site	Description	Lead Concentration (% by wt)
PP-Pb-1	North hall, south wall	Off-white, interior	0.01
PP-Pb-2	Men's bathroom, SE corner	White, interior	0.01

Appendix 1



SAMPLING LOCATIONS
PHYSICAL PLANT
200 9th STREET

Appendix 2



EMSL Analytical

2001 East 52nd St., Indianapolis, IN 46205

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

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

Customer ID: FTCH62
Customer PO: G080483
Received: 09/22/08 10:15 AM
EMSL Order: 160814623

Fax: (616) 464-3992 Phone: (616) 575-3824
Project: **G080483 Hope A69 - PP (Physical Plant)**

EMSL Proj:
Analysis Date: 10/6/2008
Report Date: 10/6/2008

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
PP 1 1 160814623-0001		White Fibrous Heterogeneous	25%	Cellulose	65% Gypsum 10% Non-fibrous (other)	None Detected
PP 1 2 160814623-0002		White Fibrous Heterogeneous	25%	Cellulose	65% Gypsum 10% Non-fibrous (other)	None Detected
PP 1 3 160814623-0003		White Fibrous Heterogeneous	25%	Cellulose	60% Gypsum 15% Non-fibrous (other)	None Detected
PP 1 4 160814623-0004		White Fibrous Heterogeneous	20%	Cellulose	70% Gypsum 10% Non-fibrous (other)	None Detected
PP 1 5 160814623-0005		White Fibrous Heterogeneous	20%	Cellulose	70% Gypsum 10% Non-fibrous (other)	None Detected
PP 2 1 160814623-0006		Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
PP 3 1/A cove base 160814623-0007		Gray Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
PP 3 1/B mastic 160814623-0007A		Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected

Analyst(s)

Melissa Wilson (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



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
Received: 09/22/08 10:15 AM
EMSL Order: 160814623

Fax: (616) 464-3992 Phone: (616) 575-3824
Project: **G080483 Hope A69 - PP (Physical Plant)**

EMSL Proj:
Analysis Date: 10/6/2008
Report Date: 10/6/2008

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
PP 4 1 160814623-0008		White/Gray Fibrous Homogeneous	40%	Cellulose	5% Non-fibrous (other)	None Detected
			30%	Glass	25% Perlite	
PP 5 1/A floor tile 160814623-0009		Gray Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
PP 5 1/B mastic 160814623-0009A		Yellow/Black Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
PP 6 1/A floor tile 160814623-0010		White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
PP 6 1/B mastic 160814623-0010A		Black/Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
PP 7 1 160814623-0011		White/Brown Fibrous Homogeneous	65%	Cellulose	35% Non-fibrous (other)	None Detected
PP 8 1 * No mastic present 160814623-0012		Gray Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
PP 9 1 160814623-0013		White/Brown Fibrous Homogeneous	65%	Cellulose	35% Non-fibrous (other)	None Detected

Analyst(s)

Melissa Wilson (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



EMSL Analytical

2001 East 52nd St., Indianapolis, IN 46205

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

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

Customer ID: FTCH62
Customer PO: G080483
Received: 09/22/08 10:15 AM
EMSL Order: 160814623

Fax: (616) 464-3992 Phone: (616) 575-3824
Project: **G080483 Hope A69 - PP (Physical Plant)**

EMSL Proj:
Analysis Date: 10/6/2008
Report Date: 10/6/2008

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
PP 10 1 * No mastic present 160814623-0014		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
PP 11 1 160814623-0015		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
PP 12 1 160814623-0016		Gray Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
PP 13 1 160814623-0017		Black Non-Fibrous Homogeneous		85% Non-fibrous (other)	15% Chrysotile

Analyst(s)

Melissa Wilson (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



EMSL Analytical

2001 East 52nd St., Indianapolis, IN 46205

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

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

Customer ID: FTCH62
Customer PO: g080483a69
Received: 09/22/08 10:15 AM
EMSL Order: 160813904

Fax: (616) 464-3992 Phone: (616) 575-3824
Project: **HOPE COLLEGE/G080483A69 PP (PHYSICAL PLANT)**

EMSL Proj:

Report Date: 9/26/2008

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

Lab ID:	Analyzed	RDL	Lead Concentration	Notes
0001	9/24/2008	0.01 % wt	0.01 % wt	
Client Sample PP-PB-1				Collected: 9/18/2008
0002	9/24/2008	0.01 % wt	0.01 % wt	
Client Sample PP-PB-2				Collected: 9/18/2008

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: 9/26/2008 8:40:56 AM

PB w/RDL