



Hazardous Materials Inspection

Facility Owner Hope College	Facility I.D. Depree Art 169 East 12th 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. 54,035
Project No. Date of Inspection Name of Inspector Inspector Accreditation No.	G080483A26 September 23, 2008 Mr. Reuben P. Van Dam A34144
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Tables

Table 1 - Description of Homogeneous Materials

Hazardous Materials Inspection Report
 Inspection Date: September 23, 2008
 Hope College, Depree Art Center

HA Number	Material Description	Material Type	Asbestos Containing?
2	Drywall	SM	N
3	Mudded pipe fitting	TSI	N
4	4" cove base and mastic (brown)	MM	N
5	2' x 4' ceiling tile	MM	N
6	2' x 4' ceiling tile	MM	N
7	Vinyl sheet flooring and mastic (yellow)	MM	Y
8	2' x 4' ceiling tile	MM	N
9	12" x 12" vinyl tile and mastic (brown)	MM	N
10	4" cove base and mastic (light gray)	MM	N
11	4" cove base and mastic (dark gray)	MM	N
12	Carpet and mastic (gray)	MM	N
13	Vinyl sheet flooring and mastic (off-white)	MM	Y
14	2' x 2' ceiling tile	MM	N
15	4" cove base and mastic (beige)	MM	N
16	2' x 2' ceiling tile	MM	N
17	Carpet and mastic (gray)	MM	N
18	Carpet and mastic (maroon)	MM	N
19	12" x 12" vinyl tile and mastic (white)	MM	Y
20	12" x 12" vinyl tile and mastic (black)	MM	N
21	12" x 12" vinyl tile and mastic (black and gray)	MM	N
22	4" cove base and mastic (black)	MM	N
23	Carpet and mastic (brown)	MM	N
24	2' x 2' ceiling tile	MM	N
25	12" x 12" vinyl tile and mastic	MM	N
26	Carpet and mastic (red/blue)	MM	N
27	Transite panels	MM	Y
28	Window caulk	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 23, 2008

Hope College, Depree Art Center

Sample Number	Sample Location	Asbestos %	Notes
DPA-2-1A	Shop, south wall at break room door	None Detected	Joint compound
DPA-2-1B	Shop, south wall at break room door	None Detected	Drywall
DPA-2-2A	South hall at east end of hall, at door	None Detected	Joint compound
DPA-2-2B	South hall at east end of hall, at door	None Detected	Drywall
DPA-2-3	West hall, above P.H. door	None Detected	
DPA-2-4	South center hall, south wall, across from room 129 door	None Detected	
DPA-2-5A	Room 7, west pole at ceiling	None Detected	Joint compound
DPA-2-5B	Room 7, west pole at ceiling	None Detected	Drywall
DPA-2-6A	Room 35, center ceiling	None Detected	Joint compound
DPA-2-6B	Room 35, center ceiling	None Detected	Drywall
DPA-2-7A	Mezzanine, north wall	None Detected	Texture
DPA-2-7B	Mezzanine, north wall	None Detected	Drywall
DPA-3-1	Shop, SE corner	None Detected	
DPA-3-2	Basement, maintenance storage 3, SE corner	None Detected	
DPA-3-3	Room 29, storage room, north wall	None Detected	
DPA-4-1A	Shop, south wall at tool crib door	None Detected	Brown cove base
DPA-4-1B	Shop, south wall at tool crib door	None Detected	Mastic
DPA-5-1	Tool crib, west wall	None Detected	
DPA-6-1	Physical plant office	None Detected	
DPA-7-1	East women's bathroom, at door	25% Chrysotile	
DPA-8-1	East men's bathroom, west wall	None Detected	
DPA-9-1A	Office, at door	None Detected	Floor tile
DPA-9-1B	Office, at door	None Detected	Mastic
DPA-10-1A	South hall, north wall	None Detected	Gray cove base
DPA-10-1B	South hall, north wall	None Detected	Mastic
DPA-11-1A	Room 121, west wall	None Detected	Gray cove base
DPA-11-1B	Room 121, west wall	None Detected	Mastic
DPA-12-1A	Room 121, at door	None Detected	Carpet
DPA-12-1B	Room 121, at door	None Detected	Mastic
DPA-13-1	Room 145, at floor drain	25% Chrysotile	Could not separate flooring and mastic
DPA-14-1	West hall, main floor, at P.H. door	None Detected	
DPA-15-1A	West hall, main floor, at 141 south door	None Detected	Gray cove base
DPA-15-1B	West hall, main floor, at 141 south door	None Detected	Mastic
DPA-16-1	P.H. room, center ceiling	None Detected	
DPA-17-1A	Room 141, north wall, rear, NW corner	None Detected	Carpet

Table 2 - Bulk Sample Location Log

Hazardous Materials Inspection Report

Inspection Date: September 23, 2008

Hope College, Depree Art Center

Sample Number	Sample Location	Asbestos %	Notes
DPA-17-1B	Room 141, north wall, rear, NW corner	None Detected	Mastic
DPA-18-1A	Room 134, NE corner	None Detected	Carpet
DPA-18-1B	Room 134, NE corner	None Detected	Mastic
DPA-19-1A	Room, at east wood pole	2% Chrysotile	Floor tile
DPA-19-1B	Room, at east wood pole	None Detected	Mastic
DPA-20-1A	Darkroom, east wall, at drain	None Detected	Floor tile
DPA-20-1B	Darkroom, east wall, at drain	None Detected	Mastic
DPA-21-1A	Darkroom, east wall, at drain	None Detected	Floor tile
DPA-21-1B	Darkroom, east wall, at drain	None Detected	Mastic
DPA-22-1A	Darkroom, west wall, at entrance	None Detected	Black cove base
DPA-22-1B	Darkroom, west wall, at entrance	None Detected	Mastic
DPA-23-1A	Room 11, west wall	None Detected	Carpet
DPA-23-1B	Room 11, west wall	None Detected	Mastic
DPA-24-1	Jerry's conference room, south wall	None Detected	
DPA-25-1A	L/F closet, at door	None Detected	Floor tile
DPA-25-1B	L/F closet, at door	None Detected	Mastic
DPA-26-1A	Main office hall, west of break room door	None Detected	Carpet
DPA-26-1B	Main office hall, west of break room door	None Detected	Mastic

Table 3 - Summary of Asbestos-Containing Homogeneous Materials
Hazardous Materials Inspection Report
Inspection Date: September 23, 2008
Hope College, Depree Art Center

HA Number	Material Description	Quantity	Unit
7	Vinyl sheet flooring and mastic (yellow)	196	s.f.
13	Vinyl sheet flooring and mastic (off-white)	36	s.f.
19	12" x 12" vinyl tile (white)	1,230	s.f.
27	Transite panels	849	s.f.
28	Window caulk	176	l.f.

HA Homogeneous Area
s.f. square feet
l.f. linear feet

HA-27 and HA-28 not sampled; assumed to be asbestos containing.

Table 4 - Room-By-Room of Asbestos-Containing Homogeneous Materials

Hazardous Materials Inspection Report

Inspection Date: September 23, 2008

Hope College, Depree Art Center

Location I.D. (Room Number)	HA Number					
	7	13	19	27	28	
	(s.f.)	(s.f.)	(s.f.)	(s.f.)	(l.f.)	
East Women's Bathroom	40					
East Men's Bathroom	60					
145		36				
Center Women's Bathroom	48					
Center Men's Bathroom	48					
7 + Dark Room			700			
11			530			
Exterior Shop				849	176	
Totals	196	36	1,230	849	176	

HA
s.f.
l.f.

Homogeneous Area
square feet
linear feet

HA-27 and HA-28 not sampled; assumed to be asbestos containing.

Table 5 - Summary of Paint Chip Sample Results

Hazardous Materials Inspection Report

Inspection Date: September 23, 2008

Hope College, Depree Art Center

Sample ID	Sample Site	Description	Lead Concentration (% by wt)
DPA-PB-1	West foyer, west wall	Yellow, interior	<0.02
DPA-PB-2	Room 121, east wall by door	Gray, interior	<0.01
DPA-PB-3	Room 120, south wall	White, interior	0.06
DPA-PB-4	East storage room, north wall	Beige, interior	<0.01
DPA-PB-5	Darkroom, ceiling	Black, interior	0.16
DPA-PB-6	South wall, window	Brown, exterior	0.45

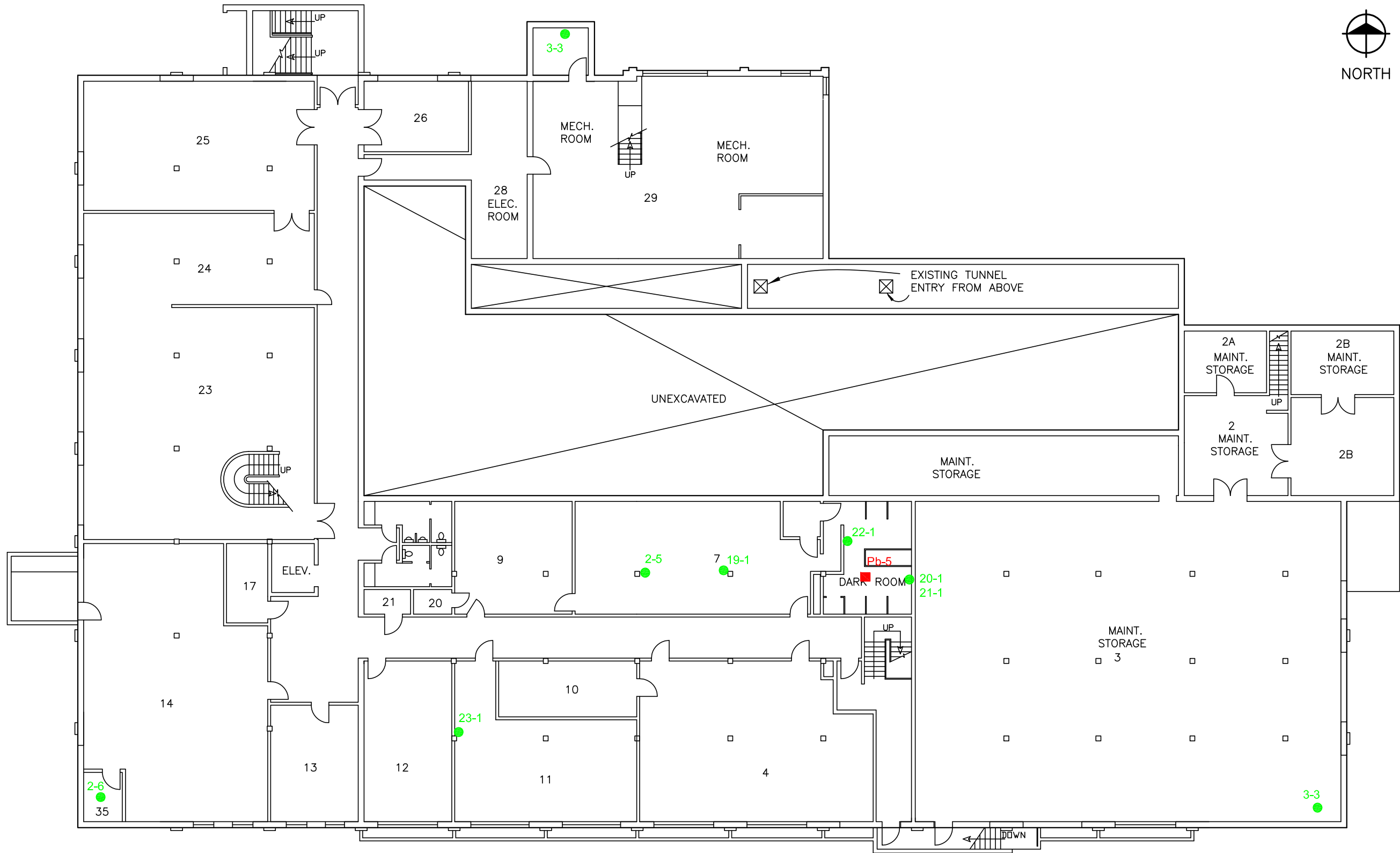
Appendix 1

PLOT INFO: U:\PROJECTS\080483A26\DEPREED.DWG DATE: 11/14/2008 TIME: 2:20:14 PM USER: ACS

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LEGEND

- ASBESTOS SAMPLE
- LEAD SAMPLE



**SAMPLING LOCATIONS
DEPREE ART CENTER
LOWER FLOOR PLAN
160 12TH STREET**



engineers
scientists
architects

constructors

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Hope College
Holland, Michigan
Hazardous Materials Inspections - 2008

PROJECT NO.
G080483A26

FIGURE NO.

1

PLOT INFO: U:\PROJECTS\080483A26\DEPREE.DWG DATE: 12/18/2008 TIME: 11:37:55 AM USER: ACS

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LEGEND

- ASBESTOS SAMPLE
- LEAD SAMPLE



SAMPLING LOCATIONS
DEPREE ART CENTER
MAIN FLOOR PLAN
160 12TH STREET



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scientists
architects
constructors

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Hope College
Holland, Michigan
Hazardous Materials Inspections - 2008

PROJECT NO.
G080483A26

FIGURE NO.

2

Appendix 2



EMSL Analytical

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

Customer ID: FTCH62
Customer PO: G080483.A26
Received: 10/02/08 11:10 AM
EMSL Order: 160815281

Fax: (616) 464-3992 Phone: (616) 575-3824
Project: **G080483 HOPE-A26 - DPA (DEPREE ART CENTER)**

EMSL Proj:
Analysis Date: 10/16/2008
Report Date: 10/16/2008

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
DPA 2 1/A joint compound 160815281-0001		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DPA 2 1/B drywall 160815281-0001A		White/Brown Fibrous Heterogeneous	45% Cellulose <1% Glass	50% Gypsum 5% Non-fibrous (other)	None Detected
DPA 2 2/A joint compound 160815281-0002		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DPA 2 2/B drywall 160815281-0002A		White/Brown Fibrous Heterogeneous	25% Cellulose 5% Glass	65% Gypsum 5% Non-fibrous (other)	None Detected
DPA 2 3 160815281-0003		White/Brown Fibrous Heterogeneous	30% Cellulose 5% Glass	60% Gypsum 5% Non-fibrous (other)	None Detected
DPA 2 4 160815281-0004		White/Brown Fibrous Heterogeneous	35% Cellulose 5% Glass	55% Gypsum 5% Non-fibrous (other)	None Detected
DPA 2 5/A joint compound 160815281-0005		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Craig Nixon (53)

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.

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			%	Fibrous	% Non-Fibrous	% Type
DPA 2 5/B drywall 160815281-0005A		White Fibrous Heterogeneous	40% 5%	Cellulose Glass	50% Gypsum 5% Non-fibrous (other)	None Detected
DPA 2 6/A joint compound 160815281-0006		White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
DPA 2 6/B drywall 160815281-0006A		White/Brown Fibrous Heterogeneous	70% <1%	Cellulose Glass	25% Gypsum 5% Non-fibrous (other)	None Detected
DPA 2 7/A texture 160815281-0007		White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
DPA 2 7/B drywall 160815281-0007A		Brown/White Fibrous Heterogeneous	40%	Cellulose	55% Gypsum 5% Non-fibrous (other)	None Detected
DPA 3 1 160815281-0008		Gray Fibrous Homogeneous	40%	Min. Wool	60% Non-fibrous (other)	None Detected
DPA 3 2 160815281-0009		Gray Fibrous Homogeneous	40%	Min. Wool	60% Non-fibrous (other)	None Detected

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Sample	Location	Appearance	<u>Non-Asbestos</u>			<u>Asbestos</u>
			%	Fibrous	% Non-Fibrous	% Type
DPA 3 3 160815281-0010		Gray/Yellow Fibrous Heterogeneous	60% 15% 10%	Cellulose Glass Min. Wool	15% Non-fibrous (other)	None Detected
DPA 4 1/A cove base 160815281-0011		Brown Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
DPA 4 1/B mastic 160815281-0011A		Brown Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
DPA 5 1 160815281-0012		White/Beige Fibrous Homogeneous	50% 30%	Cellulose Min. Wool	5% Non-fibrous (other) 15% Perlite	None Detected
DPA 6 1 160815281-0013		White/Beige Fibrous Homogeneous	50% 30%	Cellulose Min. Wool	5% Non-fibrous (other) 15% Perlite	None Detected
DPA 7 1 160815281-0014		Tan Fibrous Heterogeneous	20%	Cellulose	55% Non-fibrous (other)	25% Chrysotile
DPA 8 1 160815281-0015		White/Beige Fibrous Homogeneous	50% 30%	Cellulose Min. Wool	5% Non-fibrous (other) 15% Perlite	None Detected

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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
DPA 9 1/A floor tile 160815281-0016		Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DPA 9 1/B mastic 160815281-0016A		Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DPA 10 1/A cove base 160815281-0017		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DPA 10 1/B mastic 160815281-0017A		Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DPA 11 1/A cove base 160815281-0018		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DPA 11 1/B mastic 160815281-0018A		Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DPA 12 1/A carpet 160815281-0019		Gray Fibrous Heterogeneous	95% Synthetic	5% Non-fibrous (other)	None Detected

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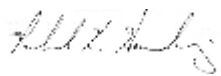
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			% Fibrous	% Non-Fibrous	% Type
DPA 12 1/B mastic 160815281-0019A		Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DPA 13 1* 160815281-0020		Beige Fibrous Heterogeneous	20% Cellulose	55% Non-fibrous (other)	25% Chrysotile
			*Cannot separate flooring and mastic		
DPA 14 1 160815281-0021		White Fibrous Homogeneous	95% Min. Wool	5% Non-fibrous (other)	None Detected
DPA 15 1/A cove base 160815281-0022		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DPA 15 1/B mastic 160815281-0022A		Cream/Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DPA 16 1 160815281-0023		White/Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	5% Non-fibrous (other) 15% Perlite	None Detected
DPA 17 1/A carpet 160815281-0024		Gray Fibrous Heterogeneous	95% Synthetic	5% Non-fibrous (other)	None Detected
DPA 17 1/B mastic 160815281-0024A		Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			%	Fibrous	% Type
DPA 18 1/A carpet 160815281-0025		Red Fibrous Heterogeneous	95%	Synthetic	5% Non-fibrous (other) None Detected
DPA 18 1/B mastic 160815281-0025A		Cream Non-Fibrous Homogeneous			100% Non-fibrous (other) None Detected
DPA 19 1/A floor tile 160815281-0026		Gray Non-Fibrous Homogeneous			98% Non-fibrous (other) 2% Chrysotile
DPA 19 1/B mastic 160815281-0026A		Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other) None Detected
DPA 20 1/A floor tile 160815281-0027		Black Non-Fibrous Homogeneous			100% Non-fibrous (other) None Detected
DPA 20 1/B mastic 160815281-0027A		Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other) None Detected
DPA 21 1/A floor tile 160815281-0028		Black Non-Fibrous Homogeneous			100% Non-fibrous (other) None Detected
DPA 21 1/B mastic 160815281-0028A		Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other) None Detected

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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

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Attn: **Dave Lutkenhoff**
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Customer ID: FTCH62
Customer PO: G080483.A26
Received: 10/02/08 11:10 AM
EMSL Order: 160815281

Fax: (616) 464-3992 Phone: (616) 575-3824
Project: **G080483 HOPE-A26 - DPA (DEPREE ART CENTER)**

EMSL Proj:
Analysis Date: 10/16/2008
Report Date: 10/16/2008

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
DPA 22 1/A cove base 160815281-0029		Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DPA 22 1/B mastic 160815281-0029A		Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DPA 23 1/A carpet 160815281-0030		Tan Fibrous Heterogeneous	95% Synthetic	5% Non-fibrous (other)	None Detected
DPA 23 1/B mastic 160815281-0030A		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DPA 24 1 160815281-0031		White/Beige Fibrous Homogeneous	40% Cellulose 40% Min. Wool	5% Non-fibrous (other) 15% Perlite	None Detected
DPA 25 1/A floor tile 160815281-0032		Beige Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DPA 25 1/B mastic 160815281-0032A		Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DPA 26 1/A carpet 160815281-0033		Red/Blue Fibrous Heterogeneous	95% Synthetic	5% Non-fibrous (other)	None Detected

Analyst(s)

Craig Nixon (53)

Richard Harding, Laboratory Manager
or other approved signatory

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EMSL Proj:
Analysis Date: 10/16/2008
Report Date: 10/16/2008

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
DPA 26 1/B mastic 160815281-0033A		Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Craig Nixon (53)

Richard Harding, Laboratory Manager
or other approved signatory

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Project: **HOPE COLLEGE/G080483A26 DPA DEPREE ART CTR**

EMSL Proj:

Report Date: 10/8/2008

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

Lab ID:	Analyzed	RDL	Lead Concentration	Notes
0001	10/6/2008	0.02 % wt	<0.02 % wt	
Client Sample DPA-PB-1				Collected: 9/29/2008
0002	10/6/2008	0.01 % wt	<0.01 % wt	
Client Sample DPA-PB-2				Collected: 9/29/2008
0003	10/6/2008	0.03 % wt	0.06 % wt	
Client Sample DPA-PB-3				Collected: 9/29/2008
0004	10/6/2008	0.01 % wt	<0.01 % wt	
Client Sample DPA-PB-4				Collected: 9/29/2008
0005	10/6/2008	0.01 % wt	0.16 % wt	
Client Sample DPA-PB-5				Collected: 9/29/2008
0006	10/6/2008	0.01 % wt	0.45 % wt	
Client Sample DPA-PB-6				Collected: 9/29/2008

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: 10/8/2008 5:10:12 PM

PB w/RDL