

SAINT PAUL PUBLIC SCHOOLS

Six-Month Periodic Surveillance Report for Ames Elementary

Located at:

1760 Ames Place
Saint Paul, MN 55106

Conducted On: 2/21/2013

Conducted By: Michael Altermatt

Key

% of Asbestos		EPA Assessment Category	Response Action
CH	Chrysotile	1 = Damaged or significantly damaged TSI ACM.	A = Cleanup ACM debris.
AM	Amosite	2 = Damaged friable surfacing ACM.	B = Encapsulate slight damage on TSI.
CR	Crocidolite	3 = Significantly damaged friable surfacing ACM.	C = Patch TSI and/or repair ACM cover.
ACT	Actinolite	4 = Damaged or significantly damaged friable miscellaneous ACM.	D = Enclose or protect accessible sections with protective barrier.
TR	Tremolite	5 = ACBM with potential for damage.	E = Remove section of damaged ACM.
ANT	Anthophyllite	6 = ACBM with potential for significant damage.	F = Remove ACM and replace with non-ACM.
Assumed	Suspect materials that have not been tested	7 = Remaining friable ACBM or friable suspect ACBM.	G = Isolate area until repaired/removed.
None Detected	Materials that have been tested and have been found to not contain asbestos.		H = Encapsulate slight damage.
NSM	Nonsuspect material		I = Remove and replace damaged or loose tile section(s).
NEW	Material installed since original AHERA inspection (1988/1989). Tracked for clients' benefit for inventory purposes.		J = Monitor condition of material(s).

IEA Event No.	IEA Material Type	Location	Estimated Amount Total	Estimated Damage Total	Friability	% of Asbestos	EPA Assess. Category	Response Action
1 CAD#	I3A	2' x 4' Ceiling Tile 2' x 2'-Look Gouges & Pin Holes w/Revealed Edge Comments:	THROUGHOUT BUILDING	40000 Sq. Ft.		NONE DETECTED		
					Sample #	112508-MA-01		
1.1 CAD#	X0H	Miscellaneous Material Brown Interior/Exterior Window/Door Caulk Comments:	THROUGHOUT BUILDING	300 Sq. Ft.	0 Sq. Ft.	N	3 CH	5
					Sample #	092712MV-09,10,11; 111108-MA-30		
2 CAD#	M0A	Plaster 1916 Original Building Comments:	THROUGHOUT 1916 ORIGINAL BUILDING	53600 Sq. Ft.		NONE DETECTED		
					Sample #	111108-MA-11,12,13,20,22; 111208-MA-09,10; 509A6		
3.1 CAD#	K2F	12" x 12" Vinyl Floor Tile & Mastic Large Gray & Black Mottle Comments: SAMPLE INCLUDED BOTH BLACK & BROWN MASTIC.	1916 ORIGINAL BUILDING GROUND FLOOR HALLWAY	1000 Sq. Ft.		NONE DETECTED		
					Sample #	111108-MA-19		
3.2 CAD#	X0N	Miscellaneous Material Black Backsplash Adhesive Comments:	ROOM 1110	10 Sq. Ft.		NONE DETECTED		
					Sample #	02212013MA-01		
4.09 CAD#	X0P	Miscellaneous Material Gray Exterior Window Caulk Comments: PRESENT UNDER BROWN X0O.	THROUGHOUT 1916 ORIGINAL BUILDING	50 Sq. Ft.		NONE DETECTED		
					Sample #	092712MV-08		

SAINT PAUL PUBLIC SCHOOLS - Ames Elementary

IEA Event No.	IEA Material Type		Location	Estimated Amount Total	Estimated Damage Total	Friability	% of Asbestos	EPA Assess. Category	Response Action
4.1 CAD#	X0C	Miscellaneous Material Tackboard Adhesive (1916) Comments:	ROOM 1101	24 Sq. Ft.			NONE DETECTED		
						Sample #			
5 CAD#	S0A	Wood Floor Felt / Vapor Barrier 1916 Original Building (Elevated) Comments: VERIFIED IN ROOM 3105.	THROUGHOUT 1916 ORIGINAL BUILDING 1ST & 2ND FLOOR CLASSROOMS	8600 Sq. Ft.			NSM		
						Sample #			
7 CAD#	K2I	12" x 12" Vinyl Floor Tile & Mastic Gray & White Mottle (2009) Comments:	1916 ORIGINAL BUILDING STAIRWELLS	1320 Sq. Ft.			NEW		
						Sample #			
8 CAD#	X0E	Miscellaneous Material Tan Stone Panel Adhesive (1916) Comments:	1916 ORIGINAL BUILDING 2ND FLOOR HALLWAY	1000 Sq. Ft.	0 Sq. Ft.	N	ASSUMED	5	
						Sample #			
12 CAD#	V0A	Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 2101	6 Sq. Ft.			NONE DETECTED		
						Sample #			
14 CAD#	V0A	Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 2107	6 Sq. Ft.			NONE DETECTED		
						Sample #			
14.1 CAD#	V0A	Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 3105	6 Sq. Ft.			NONE DETECTED		
						Sample #	111108-MA-09		
14.2 CAD#	X0C	Miscellaneous Material Tackboard Adhesive (1916) Comments:	2ND FLOOR STAIRWELL LANDING	24 Sq. Ft.			NONE DETECTED		
						Sample #			
16 CAD#	N0A	Drywall/Joint Compound 1997 Installation Comments:	THROUGHOUT 1997 ELEVATOR ADDITION	1080 Sq. Ft.			NONE DETECTED		
						Sample #	413-16		
19 CAD#	K2I	12" x 12" Vinyl Floor Tile & Mastic Gray & White Mottle (2009) Comments:	ROOM 1111	365 Sq. Ft.			NEW		
						Sample #			
21 CAD#	I2A	2' x 2' Acoustical Ceiling Tile Gouges & Pin Holes Comments:	ROOM 1109	300 Sq. Ft.			NONE DETECTED		
						Sample #	111108-MA-15		
21.1 CAD#	X0C	Miscellaneous Material Tackboard Adhesive (1916) Comments:	ROOM 1105	24 Sq. Ft.			NONE DETECTED		
						Sample #	092712MV-02		

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IEA Event No.	IEA Material Type		Location	Estimated Amount Total	Estimated Damage Total	Friability	% of Asbestos	EPA Assess. Category	Response Action
25 CAD#	D0A	Exterior Boiler Insulation Bison Boiler - Mudded Seams on Fiberglass Comments:	BOILER ROOM (101)	50 Sq. Ft.			NONE DETECTED		
						Sample #	413-13,14,15		
26 CAD#	D2A	Interior Boiler Insulation Bison Boiler - Large Doors Comments:	BOILER ROOM (101)	15 Sq. Ft.			NONE DETECTED		
						Sample #	111108-MA-02		
27 CAD#	D2B	Interior Boiler Insulation Bison Boiler - Small Doors Comments:	BOILER ROOM (101)	3 Sq. Ft.			NONE DETECTED		
						Sample #	111108-MA-01		
28 CAD#	D2C	Interior Boiler Insulation Bison Boiler - Box Refractory Comments: BEHIND BRICK. INACCESSIBLE. ASSUMED PRESENT.	BOILER ROOM (101)	120 Sq. Ft.	0 Sq. Ft.	N	ASSUMED	5	
						Sample #			
29 CAD#	M0D	Plaster Unknown Installation Date Comments:	BOILER ROOM (101) WEST END	250 Sq. Ft.			NONE DETECTED		
						Sample #	111108-MA-04,05,06		
30 CAD#	A4A	Mudded Pipe Joints on Fiberglass Insulation Unknown Installation Date Comments: PAINTED BROWN. EYE LEVEL.	BOILER ROOM (101) WEST END	1 Joints			NONE DETECTED		
						Sample #	111108-MA-03		
31 CAD#	K2F	12" x 12" Vinyl Floor Tile & Mastic Large Gray & Black Mottle Comments:	1924 ADDITION HALLWAY OUTSIDE OFFICE	400 Sq. Ft.			NONE DETECTED		
						Sample #	413-7		
32 CAD#	S0E	Wood Floor Felt / Vapor Barrier 1924 Addition (On-Grade) Comments: UNDER CARPET.	ROOM 1002 (MAIN OFFICE) STORAGE	25 Sq. Ft.	0 Sq. Ft.	N	ASSUMED	5	
						Sample #			
33 CAD#	L0A	Flexible Duct Connector Coarse Brown Fabric Comments: TWO (2) JOINTS. PAINTED GRAY.	FAN ROOM 1102 BY OFFICE	10 Sq. Ft.			NONE DETECTED		
						Sample #	2001-1501-AM-1		
34 CAD#	I2B	2' x 2' Acoustical Ceiling Tile Vinyl-Coated Gypsum Comments:	ROOM 1201 (KITCHEN)	315 Sq. Ft.			NSM		
						Sample #			
36 CAD#	I3C	2' x 4' Ceiling Tile Gouges & Pin Holes Comments:	GROUND FLOOR HALLWAY 1200 (SOUTH OF CAFETERIA)	725 Sq. Ft.			NONE DETECTED		
						Sample #	111108-MA-26		
37 CAD#	X0I	Miscellaneous Material Interior Light Gray Door/Window Frame Caulk Comments:	SOUTH ENTRANCE BY CAFETERIA	1 Sq. Ft.	0 Sq. Ft.	N	4 CH	5	
						Sample #	111108-MA-31		

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IEA Event No.	IEA Material Type	Location	Estimated Amount Total	Estimated Damage Total	Friability	% of Asbestos	EPA Assess. Category	Response Action
38 CAD#	I2A 2' x 2' Acoustical Ceiling Tile Gouges & Pin Holes Comments:	GROUND FLOOR HALLWAY 1220 WEST OF CAFETERIA	500 Sq. Ft.			NONE DETECTED		
					Sample #			
39 CAD#	W1D 1' x 1' Ceiling Tile Adhesive Associated w/IID (Brown) Comments:	MEN'S & WOMEN'S RESTROOMS BY GYMNASIUM	35 Sq. Ft.			NONE DETECTED		
					Sample #	111108-MA-28		
41 CAD#	K2G 12" x 12" Vinyl Floor Tile & Mastic Beige/Tan Mottle Comments:	ROOM 1221 (GYMNASIUM)	2400 Sq. Ft.			NONE DETECTED		
					Sample #	111108-MA-32		
42 CAD#	I2C 2' x 2' Acoustical Ceiling Tile Bumpy w/Nail Holes Comments:	ROOM 1221 (GYMNASIUM)	2400 Sq. Ft.			NEW		
					Sample #			
43 CAD#	T0A Light Cord Insulation Fuzzy White Comments: SIX (6) SPOTLIGHTS W/TWO OR THREE (2-3) CORDS EACH.	ROOM 1221 (GYMNASIUM)	51 Lin. Ft.	0 Lin. Ft.	N	ASSUMED	5	
					Sample #			
44 CAD#	S0C Wood Floor Felt / Vapor Barrier 1954 Addition (Elevated) Comments:	ROOM 1225 (STAGE)	900 Sq. Ft.	0 Sq. Ft.	N	ASSUMED	5	
					Sample #			
45 CAD#	K2A 12" x 12" Vinyl Floor Tile & Mastic Beige w/Black Pits Comments:	1954 ADDITION WEST STAIRWELL	700 Sq. Ft.			NONE DETECTED		
					Sample #			
46 CAD#	K2B 12" x 12" Vinyl Floor Tile & Mastic Gray w/Black Pits Comments: RESIDUAL MASTIC FROM OLD TILES.	1954 ADDITION WEST STAIRWELL	80 Sq. Ft.	0 Sq. Ft.	N	2 CH (MASTIC)	5	
					Sample #	111108-MA-08		
48 CAD#	X0K Miscellaneous Material Tackboard Adhesive (1954) Comments: RESIDUAL BROWN ADHESIVE BEHIND NEW WALL/TACKBOARD/WHITEBOARD.	THROUGHOUT 1954 ADDITION	640 Sq. Ft.			NONE DETECTED		
					Sample #	092712MV-07		
49 CAD#	M0C Plaster 1954 Addition Comments:	THROUGHOUT 1954 ADDITION	50640 Sq. Ft.			NONE DETECTED		
					Sample #	111108-MA-34,36; 111208-MA-06,07,08; 509A8; 413-12		
50 CAD#	B3C Pre-Formed Pipe Insulation 1954 Addition Comments: ASSUMED PRESENT IN WALL FOR RADIATOR. INACCESSIBLE.	1954 ADDITION 1ST FLOOR WEST STAIRWELL LANDING 2299A	3 Lin. Ft.	0 Lin. Ft.	N	20 AM	5	
					Sample #	100N-3A		
51 CAD#	I2D 2' x 2' Acoustical Ceiling Tile Gouges & Pin Holes w/Revealed Edge (2009) Comments:	1954 ADDITION 1ST FLOOR HALLWAY	700 Sq. Ft.			NEW		
					Sample #			

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IEA Event No.	IEA Material Type	Location	Estimated Amount Total	Estimated Damage Total	Friability	% of Asbestos	EPA Assess. Category	Response Action
52 CAD#	K2A	12" x 12" Vinyl Floor Tile & Mastic Beige w/Black Pits Comments: INCLUDES BLUE HIGHLIGHT TILES AT WEST END.	1954 ADDITION 1ST FLOOR HALLWAY	600 Sq. Ft.		NONE DETECTED		
					Sample #			
53 CAD#	K2B	12" x 12" Vinyl Floor Tile & Mastic Gray w/Black Pits Comments: RESIDUAL MASTIC FROM OLD TILE.	1954 ADDITION 1ST FLOOR HALLWAY	200 Sq. Ft.	0 Sq. Ft.	N	2 CH (MASTIC)	5
					Sample #			
54 CAD#	V0A	Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 2218	6 Sq. Ft.		NONE DETECTED		
					Sample #			
55 CAD#	V0A	Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 2217	6 Sq. Ft.		NONE DETECTED		
					Sample #			
55.1 CAD#	X0K	Miscellaneous Material Tackboard Adhesive (1954) Comments: RESIDUAL BROWN ADHESIVE ON NORTH AND WEST WALLS BEHIND NEW INSTALLATION.	ROOM 2217	5 Sq. Ft.		NONE DETECTED		
					Sample #			
56 CAD#	V0A	Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 2216	6 Sq. Ft.		NONE DETECTED		
					Sample #			
57 CAD#	V0A	Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 2215	6 Sq. Ft.		NONE DETECTED		
					Sample #			
58 CAD#	K2H	12" x 12" Vinyl Floor Tile & Mastic Speckled Gray w/Squares Comments:	1ST FLOOR HALLWAY RAMP BETWEEN 1924 & 1954 ADDITIONS	230 Sq. Ft.		NONE DETECTED		
					Sample #	111208-MA-01		
58.1 CAD#	X0O	Miscellaneous Material Black Wall Dampproofing Comments: ESTIMATED IN WALLS.	THROUGHOUT 1924 ADDITION	1000 Sq. Ft.		NONE DETECTED		
					Sample #	121912BF-01		
59 CAD#	X0L	Miscellaneous Material Slate Chalkboard Adhesive (1924) Comments:	THROUGHOUT 1924 ADDITION	120 Sq. Ft.		NONE DETECTED		
					Sample #	092712MV-03		
60 CAD#	X0M	Miscellaneous Material Tackboard Adhesive (1924) Comments:	MAIN OFFICE (ROOM 1000)	24 Sq. Ft.	0 Sq. Ft.	N	3 CH (BEHIND GYPSUM)	5
					Sample #	092712MV-04,05		
61 CAD#	M0B	Plaster 1924 Addition Comments:	THROUGHOUT 1924 ADDITION	40600 Sq. Ft.		NONE DETECTED		
					Sample #	111108-MA-23,24; 111208-MA-02,04,05; 509A7; 413-11		

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IEA Event No.	IEA Material Type	Location	Estimated Amount Total	Estimated Damage Total	Friability	% of Asbestos	EPA Assess. Category	Response Action
62 CAD#	K2A	12" x 12" Vinyl Floor Tile & Mastic Beige w/Black Pits Comments: INCLUDES BLUE HIGHLIGHT TILES.	1924 ADDITION 1ST FLOOR HALLWAY	630 Sq. Ft.		NONE DETECTED		
					Sample #	111208-MA-01		
63 CAD#	S0B	Wood Floor Felt / Vapor Barrier 1924 Addition (Elevated) Comments:	ROOM 2203	80 Sq. Ft.		NONE DETECTED		
					Sample #	110811-BF-1		
65 CAD#	K1A	Sheet Vinyl Flooring & Adhesive Tan w/Brown Swirls Comments:	ROOM 2202A	35 Sq. Ft.		NONE DETECTED		
					Sample #	111208-MA-03		
66 CAD#	K2E	12" x 12" Vinyl Floor Tile & Mastic Small Gray Mottle Comments:	1924 ADDITION 2ND FLOOR HALLWAY	700 Sq. Ft.		NONE DETECTED		
					Sample #	112508-MA-07		
67 CAD#	K2E	12" x 12" Vinyl Floor Tile & Mastic Small Gray Mottle Comments:	ROOM 3203A	30 Sq. Ft.		NONE DETECTED		
					Sample #			
67.09 CAD#	S0B	Wood Floor Felt / Vapor Barrier 1924 Addition (Elevated) Comments:	ROOM 3201	240 Sq. Ft.		NONE DETECTED		
					Sample #			
67.1 CAD#	S0B	Wood Floor Felt / Vapor Barrier 1924 Addition (Elevated) Comments:	ROOM 3202	660 Sq. Ft.		NONE DETECTED		
					Sample #			
67.2 CAD#	S0B	Wood Floor Felt / Vapor Barrier 1924 Addition (Elevated) Comments:	ROOM 3203	120 Sq. Ft.		NONE DETECTED		
					Sample #			
67.3 CAD#	S0B	Wood Floor Felt / Vapor Barrier 1924 Addition (Elevated) Comments:	ROOM 3204	60 Sq. Ft.		NONE DETECTED		
					Sample #			
68 CAD#	K2A	12" x 12" Vinyl Floor Tile & Mastic Beige w/Black Pits Comments: INCLUDES BLUE HIGHLIGHT TILES.	1954 ADDITION 2ND FLOOR HALLWAY	700 Sq. Ft.		NONE DETECTED		
					Sample #			
69 CAD#	K2A	12" x 12" Vinyl Floor Tile & Mastic Beige w/Black Pits Comments:	1954 ADDITION 2ND FLOOR HALLWAY	600 Sq. Ft.		NONE DETECTED		
					Sample #			
70 CAD#	K2B	12" x 12" Vinyl Floor Tile & Mastic Gray w/Black Pits Comments: RESIDUAL MASTIC FROM OLD TILE.	1954 ADDITION 2ND FLOOR HALLWAY	200 Sq. Ft.	0 Sq. Ft.	N	2 CH (MASTIC)	5
					Sample #			

SAINT PAUL PUBLIC SCHOOLS - Ames Elementary

IEA Event No.	IEA Material Type	Location	Estimated Amount Total	Estimated Damage Total	Friability	% of Asbestos	EPA Assess. Category	Response Action
71 CAD#	I2D 2' x 2' Acoustical Ceiling Tile Gouges & Pin Holes w/Revealed Edge (2009) Comments:	1954 ADDITION 2ND FLOOR HALLWAY	700 Sq. Ft.			NEW		
								Sample #
72 CAD#	V0A Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 3215	6 Sq. Ft.			NONE DETECTED		
								Sample #
72.1 CAD#	X0K Miscellaneous Material Tackboard Adhesive (1954) Comments: RESIDUAL BROWN ADHESIVE ON NORTH AND WEST WALLS BEHIND NEW INSTALLATION.	ROOM 3215	5 Sq. Ft.			NONE DETECTED		
								Sample #
73 CAD#	V0A Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 3216	6 Sq. Ft.			NONE DETECTED		
								Sample #
73.1 CAD#	X0K Miscellaneous Material Tackboard Adhesive (1954) Comments: RESIDUAL BROWN ADHESIVE ON SOUTH AND EAST WALLS BEHIND NEW INSTALLATION.	ROOM 3216	5 Sq. Ft.			NONE DETECTED		
								Sample #
74 CAD#	V0A Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 3217	6 Sq. Ft.			NONE DETECTED		
								Sample #
75 CAD#	V0A Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 3218	6 Sq. Ft.			NONE DETECTED		
								Sample #
75.1 CAD#	X0K Miscellaneous Material Tackboard Adhesive (1954) Comments: RESIDUAL BROWN ADHESIVE ON SOUTH AND EAST WALLS BEHIND NEW INSTALLATION.	ROOM 3218	5 Sq. Ft.			NONE DETECTED		
								Sample #
76 CAD#	B3C Pre-Formed Pipe Insulation 1954 Addition Comments: IN WALL FOR RADIATOR. INACCESSIBLE.	1954 ADDITION 2ND FLOOR WEST STAIRWELL LANDING 3299A	5 Lin. Ft.	0 Lin. Ft.	N	20 AM	5	
								Sample #

**EMSL Analytical, Inc.**

14375 23rd Avenue North, Minneapolis, Mn 55447

Phone/Fax: (763) 449-4922 / (763) 449-4924

<http://www.emsl.com>minneapolislab@emsl.com

EMSL Order: 351207862

CustomerID: IFEA50

CustomerPO:

ProjectID:

Attn: **Denice Kuchta****Institute For Environmental Assessment****9201 West Broadway****Suite 600****Brooklyn Park, MN 55445**

Phone: (763) 315-7900

Fax: (763) 315-7920

Received: 12/11/12 4:15 PM

Analysis Date: 12/11/2012

Collected: 12/11/2012

Project: 201211057, Wood Floor, Ames Elementary, Saint Paul Public Schools

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
121112MA-01	RM 1108 - Wood Floor Vapor	Brown/Black Fibrous	75% Cellulose	25% Non-fibrous (other)	None Detected
351207862-0001	Barrier, SOD	Homogeneous			

Analyst(s)

Nicholas Asuncion (1)

Rachel Travis, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-triable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%.

Samples analyzed by EMSL Analytical, Inc. Minneapolis, Mn NVLAP Lab Code 200019-0

Initial report from 12/12/2012 07:26:29



9201 West Broadway North, Suite 600
Brooklyn Park, MN 55445
(763) 315-7900
1-800-233-9513

CHAIN OF CUSTODY

No 5790

Page ____ of ____

Client # _____ Project # 201211057

Building Name Ames Elementary

Shaded Areas are for
Laboratory Use Only!

Client Saint Paul Public Schools

Project Name Wood Floor

Address _____

Contact Person _____

Contact Person Phone _____

Other Information _____

Verbal results to Denise Kuchta

Phone, Fax No. or E-Mail _____

TAT (circle) 6 hr 1d 2d 3d 4d Specify 3 hr

Verbal results relayed to Bronda F

Verbal results relayed by Denise Kuchta

Date 12/11/12 Time _____

Analysis location: ☐ On Site ☐ Lab ☐ Regional Office ☒ Other EMSL

Matrix type

Analysis requested

Filter type

Sample #	Work Area or Phase #	Comments / Location	Sample type or Material code	Volume	Air	Bulk	Dust	PCM	PLM	TEM	Other	MCE	.8 um	.45 um
121112MA-01	Rm	1108 - Wood Floor Vapor Barrier	SOD		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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**EMSL Analytical, Inc.**

14375 23rd Avenue North, Minneapolis, Mn 55447

Phone/Fax: (763) 449-4922 / (763) 449-4924

<http://www.emsl.com>minneapolislab@emsl.com

EMSL Order: 351208049

CustomerID: IFEA50

CustomerPO:

ProjectID:

Attn: **Denice Kuchta****Institute For Environmental Assessment****9201 West Broadway****Suite 600****Brooklyn Park, MN 55445**

Phone: (763) 315-7900

Fax: (763) 315-7920

Received: 12/20/12 10:15 AM

Analysis Date: 12/20/2012

Collected: 12/19/2012

Project: 2001-201211057, Ames Elementary, Saint Paul Public Schools

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
121912-BF-1	Rm 3212, West Wall -	Black Non-Fibrous		10% Quartz	None Detected
351208049-0001	Dampproofing	Homogeneous		86% Matrix 4% Non-fibrous (other)	

Analyst(s)

Silas Thompson (1)

Rachel Travis, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-fragile organically bound materials present a problem matrix and therefore EMSL omits gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%.

Samples analyzed by EMSL Analytical, Inc. Minneapolis, Mn NVLAP Lab Code 200019-0

Initial report from 12/20/2012 16:53:11



9201 West Broadway North, Suite 600
Brooklyn Park, MN 55445
(763) 315-7900
1-800-233-9513

CHAIN OF CUSTODY

804^c, 5177
Page 1 of 1

351208049

Shaded Areas are for
Laboratory Use Only!

Client # 2001 Project # 201211057

Client Saint Paul Public Schools

Address _____

Building Name Ames Elementary

Project Name _____

Contact Person _____

Contact Person Phone _____

Other Information _____

Verbal results to Denice Cliff

Phone, Fax No. or E-Mail _____

TAT (circle) 6 hr 1d 2d 3d 4d Specify

Verbal results relayed to Brenda Fischer

Verbal results relayed by Denice Kuchta

Date 12/21/12 Time _____

Analysis location: ☐ On Site ☐ Lab ☐ Regional Office ☒ Other EMSL

Matrix type

Analysis requested

Filter type

Sample #	Work Area or Phase #	Comments / Location	Sample type or Material code	Volume	Air	Bulk	Dust	PCM	PLM	TEM	Other	MCE	.8 um	.45 um
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**EMSL Analytical, Inc.**

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EMSL Order: 351300945

CustomerID: IFEA50

CustomerPO:

ProjectID:

Attn: **Denice Kuchta****Institute For Environmental Assessment****9201 West Broadway****Suite 600****Brooklyn Park, MN 55445**

Phone: (763) 315-7900

Fax: (763) 315-7920

Received: 02/25/13 8:00 AM

Analysis Date: 2/25/2013

Collected:

Project: 201224008, Ames Elementary, Saint Paul Public Schools

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
02212013MA-01 - Tar Felt 351300945-0001	Room 1110 - Backsplash adhesive, XON	Black Fibrous Heterogeneous	85% Cellulose	15% Matrix 0% Non-fibrous (other)	None Detected
02212013MA-01 - Adhesive 351300945-0001A	Room 1110 - Backsplash adhesive, XON	Tan Non-Fibrous Heterogeneous	20% Cellulose	40% Quartz 40% Non-fibrous (other)	None Detected

Analyst(s)

Silas Thompson (2)

Rachel Travis, Laboratory Manager
or other approved signatory

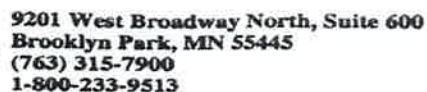
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Samples analyzed by EMSL Analytical, Inc. Minneapolis, Mn NVLAP Lab Code 200019-0

Initial report from 02/25/2013 16:22:21

Test Report PLM-7.28.7 Printed: 2/25/2013 4:22:21 PM

THIS IS THE LAST PAGE OF THE REPORT.



094.

№ 5760

Page ____ of ____

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CustomerID: IFEA50
CustomerPO:
ProjectID:

Attn: **Denice Cliff**

Institute For Environmental Assessment

**9201 West Broadway
Suite 600
Brooklyn Park, MN 55445**

Project: 2001-201210852 Ames Elementary

Phone: (763) 315-7900

Fax: (763) 315-7920

Received: 09/28/12 8:00 AM

Analysis Date: 10/1/2012

Collected:

**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/16 and/or EPA
600/M4-82-020 Method(s) using Polarized Light Microscopy**

Sample	Description	Appearance	Non-Asbestos		Asbestos	
			% Fibrous	% Non-Fibrous	% Type	
092712MV-01 351206410-0001	Rm 2101 Chalkboard Adhesive X0B	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)		None Detected
092712MV-02 351206410-0002	Rm 2102 Tackboard Adhesive X0C	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)		None Detected
092712MV-03- Adhesive 351206410-0003	Rm 2210 Chalkboard Adhesive & Thinsul X0L	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)		None Detected
092712MV-03- Thinsul 351206410-0003A	Rm 2210 Chalkboard Adhesive & Thinsul X0L	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)		None Detected
092712MV-04 351206410-0004	Rm 2210 Tackboard Adhesive (Behind Gypsum) X0M	Brown Non-Fibrous Heterogeneous		97% Non-fibrous (other)		3% Chrysotile
092712MV-05 351206410-0005	Rm 2210 Tackboard Adhesive (Blwn Cork & Gypsum X0M	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)		None Detected
092712MV-06 351206410-0006	Rm 2215 Chalkboard Adhesive X0J	White Non-Fibrous Homogeneous		98% Non-fibrous (other)		2% Chrysotile

Analyst(s)

Mark Erickson (12)

Rachel Travis, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Minneapolis, Mn NVLAP Lab Code 200019-0

Report Amended: 10/04/2012 15:46:05 Replaces the Initial Report 10/01/2012 17:52:52. Reason Code: Client-Change to Location

**EMSL Analytical, Inc.**

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<http://www.emsl.com>

minneapolislab@emsl.com

EMSL Order: 351206410
CustomerID: IFEA50
CustomerPO:
ProjectID:

Attn: **Denice Cliff**

Institute For Environmental Assessment

**9201 West Broadway
Suite 600
Brooklyn Park, MN 55445**

Phone: (763) 315-7900

Fax: (763) 315-7920

Received: 09/28/12 8:00 AM

Analysis Date: 10/1/2012

Collected:

Project: 2001-201210852 Ames Elementary

**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA
600/M-4-82-020 Method(s) using Polarized Light Microscopy**

Sample	Description	Appearance	Non-Asbestos		Asbestos	
			% Fibrous	% Non-Fibrous	% Type	
092712MV-07	Rm 2215 Tackboard	Brown		100% Non-fibrous (other)		None Detected
351206410-0007	Adhesive X0K	Non-Fibrous Heterogeneous				
092712MV-08	Rm 2102 Gray Exterior Window Caulk X0N	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)		None Detected
351206410-0008						
092712MV-09	Rm 2102 Brown Exterior Window Caulk X0O	Brown Non-Fibrous Homogeneous		92% Non-fibrous (other)		3% Chrysotile
351206410-0009						
092712MV-10	Rm 2102 Brown Interior Window Caulk X0O	Brown Non-Fibrous Homogeneous		92% Non-fibrous (other)		3% Chrysotile
351206410-0010						
092712MV-11	Rm 2212 Brown Interior Window Caulk X0O	Brown Non-Fibrous Homogeneous		5% Synthetic 92% Non-fibrous (other)		3% Chrysotile
351206410-0011						

Analyst(s)

Mark Erickson (12)


Rachel Travis, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-frangible organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%
Samples analyzed by EMSL Analytical, Inc. Minneapolis, Mn NVLAP Lab Code 200019-0

Report Amended: 10/04/2012 15:46:05 Replaces the Initial Report 10/01/2012 17:52:52. Reason Code: Client-Change to Location



9201 West Broadway North, Suite 600
Brooklyn Park, MN 55445
(763) 315-7900
1-800-233-9513

CHAIN OF CUSTODY

No 5567

Page 1 of 1

whiteout from
present when received
nda 9/28

6410

Shaded Areas are for
Laboratory Use Only!

Client # 2001 Project # 201210852
Client St Paul Public Schools
Address _____

Building Name Ames Elementary
Project Name _____
Contact Person _____
Contact Person Phone _____
Other Information _____

Verbal results to Denice Cliff Phone, Fax No. or E-Mail _____ TAT (circle) 6 hr 1d/2d/3d 4d Specify _____
Verbal results relayed to _____ Verbal results relayed by _____ Date _____ Time _____

Analysis location: ☐ On Site ☐ Lab ☐ Regional Office ☒ Other EMSL

Matrix type

Analysis requested

Filter type

Sample #	Work Area or Phase #	Comments / Location	Sample type or Material code	Volume	Air	Bulk	Dust	PCM	PLM	TEM	Other	MCE	.8 um	.45 um
092712NV-01	Rm 2101	Chalkboard Adhesive	XOB		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
-02	Rm 2102	Tackboard Adhesive (Analyze Adhesive Only)	XOC		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
-03	Rm 2210	Chalkboard Adhesive + Thin set	XOL		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
-04	↓	Tackboard Adhesive (Behind Gypsum)	XOM		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
-05	↓	" " (Between Cork + Gypsum)	XOM		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
-06	Rm 2215	Chalkboard Adhesive	XOJ		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
-07	↓	Tackboard Adhesive (Analyze Brown/Ten Layer)	XOK		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
-08	Rm 2102	Gray Exterior Window Caulk	XON		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
-09	↓	Brown Exterior " "	XOO		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
-10	↓	Brown Interior " "	XOP		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
-11	Rm 2212	Brown Interior Window Caulk	XOQ		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

The MN Department of Health Alternative Indoor Air Standard for this project is: _____ F/CC. Batch Number: _____ Samples Acceptable? ☐ Yes ☐ No

Shipped by <u>Mike Vane</u>	Date <u>9/27/12</u>	Time <u>1:00</u>	Delivered by <u>Walt 03</u>	Date <u>9/28/12</u>	Time <u>8:00am</u>	Received by lab	Date	Time	Entered by	Date	Time
Received by	Date	Time	Delivered by	Date	Time	Analysis by	Date	Time	Delivered by	Date	Time