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
СН	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		H = Encapsulate slight damage.
	contain asbestos.		I = Remove and replace damaged or loose tile section(s).
NSM	Nonsuspect material		J = Monitor condition of material(s).
NEW	Material installed since original AHERA inspection (1988/1989). Tracked for clients' benefit for inventory purposes.		

IEA Event	IEA Materi	al		Estimated Amount	Estimated Damage			EPA Assess.	Response
No.	Type		Location	Total	Total	Friability	% of Asbestos	Category	Action
1 CAD#	I3A	2' x 4' Ceiling Tile 2' x 2'-Look Gouges & Pin Holes w/Revealed Edge	THROUGHOUT BUILDING	40000 Sq. Ft.			NONE DETECTED		
		Comments:				Sample # 112508-M	A-01		
1.1 CAD#	ХОН	Miscellaneous Material Brown Interior/Exterior Window/Door Caulk	THROUGHOUT BUILDING	300 Sq. Ft.	0 Sq. Ft.	N	3 CH	5	
		Comments:				Sample # 092712M	V-09,10,11; 111108-MA-30		
2 CAD#	M0A	Plaster 1916 Original Building	THROUGHOUT 1916 ORIGINAL BUILDING	53600 Sq. Ft.			NONE DETECTED		
		Comments:				Sample # 111108-M	A-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	1916 ORIGINAL BUILDING GROUND FLOOR HALLWAY	1000 Sq. Ft.			NONE DETECTED		
		Comments: SAMPLE INCLUDED BOTH BLACK & BROW	VN MASTIC.			Sample # 111108-M	A-19		
3.2 CAD#	X0N	Miscellaneous Material Black Backsplash Adhesive	ROOM 1110	10 Sq. Ft.			NONE DETECTED		
		Comments:				Sample # 022120131	MA-01		
4.09	X0P	Miscellaneous Material	THROUGHOUT 1916 ORIGINAL BUILDING	50 Sq. Ft.			NONE DETECTED		
CAD#		Gray Exterior Window Caulk Comments: PRESENT UNDER BROWN X0O.				Sample # 092712M	V-08		

Ames Elementary 201310015 Page 1

IEA Event No.	IEA Materi Type	ial	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.		Sample #	NONE DETECTED		
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.		Sample #	NSM		
7 CAD#	K2I	12" x 12" Vinyl Floor Tile & Mastic Gray & White Mottle (2009) Comments:	1916 ORIGINAL BUILDING STAIRWELLS	1320 Sq. Ft.		Sample #	NEW		
8 CAD#	X0E	Miscellaneous Material Tan Stone Panel Adhesive (1916) Comments:	1916 ORIGINAL BUILDING 2ND FLOOR HALLWAY	1000 Sq. Ft.	0 Sq. Ft.	N Sample #	ASSUMED	5	
12 CAD#	V0A	Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 2101	6 Sq. Ft.		Sample #	NONE DETECTED		
14 CAD#	V0A	Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 2107	6 Sq. Ft.		Sample #	NONE DETECTED		
14.1 CAD#	V0A	Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 3105	6 Sq. Ft.		Sample # 111108-M	NONE DETECTED 1A-09		
14.2 CAD#	X0C	Miscellaneous Material Tackboard Adhesive (1916) Comments:	2ND FLOOR STAIRWELL LANDING	24 Sq. Ft.		Sample #	NONE DETECTED		
16 CAD#	N0A	Drywall/Joint Compound 1997 Installation Comments:	THROUGHOUT 1997 ELEVATOR ADDITION	1080 Sq. Ft.		Sample # 413-16	NONE DETECTED		
19 CAD#	K2I	12" x 12" Vinyl Floor Tile & Mastic Gray & White Mottle (2009) Comments:	ROOM 1111	365 Sq. Ft.		Sample #	NEW		
21 CAD#	I2A	2' x 2' Acoustical Ceiling Tile Gouges & Pin Holes Comments:	ROOM 1109	300 Sq. Ft.		Sample # 111108-M	NONE DETECTED		
21.1 CAD#	X0C	Miscellaneous Material Tackboard Adhesive (1916) Comments:	ROOM 1105	24 Sq. Ft.		Sample # 092712M	NONE DETECTED		

IEA Event No.	IEA Materi Type	al	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.		Sample # 413-13,14	NONE DETECTED		
26 CAD#	D2A	Interior Boiler Insulation Bison Boiler - Large Doors Comments:	BOILER ROOM (101)	15 Sq. Ft.		Sample # 111108-M	NONE DETECTED		
27 CAD#	D2B	Interior Boiler Insulation Bison Boiler - Small Doors Comments:	BOILER ROOM (101)	3 Sq. Ft.		Sample # 111108-M	NONE DETECTED		
28 CAD#	D2C	Interior Boiler Insulation Bison Boiler - Box Refractory Comments: BEHIND BRICK. INACCESSIBLE. ASSUM	BOILER ROOM (101) ED PRESENT.	120 Sq. Ft.	0 Sq. Ft.	N Sample #	ASSUMED	5	
29 CAD#	M0D	Plaster Unknown Installation Date Comments:	BOILER ROOM (101) WEST END	250 Sq. Ft.		Sample # 111108-M	NONE DETECTED IA-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		Sample # 111108-N	NONE DETECTED		
31 CAD#	K2F	12" x 12" Vinyl Floor Tile & Mastic Large Gray & Black Mottle Comments:	1924 ADDITION HALLWAY OUTSIDE OFFICE	400 Sq. Ft.		Sample # 413-7	NONE DETECTED		
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 Sample #	ASSUMED	5	
33 CAD#	L0A	Flexible Duct Connector Coarse Brown Fabric Comments: TWO (2) JOINTS. PAINTED GRAY.	FAN ROOM 1102 BY OFFICE	10 Sq. Ft.		Sample # 2001-150	NONE DETECTED		
34 CAD#	I2B	2' x 2' Acoustical Ceiling Tile Vinyl-Coated Gypsum Comments:	ROOM 1201 (KITCHEN)	315 Sq. Ft.		Sample #	NSM		
36 CAD#	I3C	2' x 4' Ceiling Tile Gouges & Pin Holes Comments:	GROUND FLOOR HALLWAY 1200 (SOUTH OF CAFETERIA)	725 Sq. Ft.		Sample # 111108-M	NONE DETECTED		
37 CAD#	X0I	Miscellaneous Material Interior Light Gray Door/Window Frame Caulk Comments:	SOUTH ENTRANCE BY CAFETERIA	1 Sq. Ft.	0 Sq. Ft.	N Sample # 111108-M	4 CH	5	

IEA Event No.	IEA Materi 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.		Sample #	NONE DETECTED		
39 CAD#	W1D	1' x 1' Ceiling Tile Adhesive Associated w/I1D (Brown) Comments:	MEN'S & WOMEN'S RESTROOMS BY GYMNASIUM	35 Sq. Ft.		Sample # 111108-M	NONE DETECTED 1A-28		
41 CAD#	K2G	12" x 12" Vinyl Floor Tile & Mastic Beige/Tan Mottle Comments:	ROOM 1221 (GYMNASIUM)	2400 Sq. Ft.		Sample # 111108-M	NONE DETECTED 1A-32		
42 CAD#	I2C	2' x 2' Acoustical Ceiling Tile Bumpy w/Nail Holes Comments:	ROOM 1221 (GYMNASIUM)	2400 Sq. Ft.		Sample #	NEW		
43 CAD#	T0A	Light Cord Insulation Fuzzy White Comments: SIX (6) SPOTLIGHTS W/TWO OR THREE (2-3)	ROOM 1221 (GYMNASIUM) CORDS EACH.	51 Lin. Ft.	0 Lin. Ft.	N Sample #	ASSUMED	5	
44 CAD#	SOC	Wood Floor Felt / Vapor Barrier 1954 Addition (Elevated) Comments:	ROOM 1225 (STAGE)	900 Sq. Ft.	0 Sq. Ft.	N Sample #	ASSUMED	5	
45 CAD#	K2A	12" x 12" Vinyl Floor Tile & Mastic Beige w/Black Pits Comments:	1954 ADDITION WEST STAIRWELL	700 Sq. Ft.		Sample #	NONE DETECTED		
46 CAD#	К2В	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 Sample # 111108-N	2 CH (MASTIC)	5	
48 CAD#	X0K	Miscellaneous Material Tackboard Adhesive (1954) Comments: RESIDUAL BROWN ADHESIVE BEHIND NEW	THROUGHOUT 1954 ADDITION WALL/TACKBOARD/WHITEBOARD.	640 Sq. Ft.		Sample # 092712M	NONE DETECTED V-07		
49 CAD#	МОС	Plaster 1954 Addition Comments:	THROUGHOUT 1954 ADDITION	50640 Sq. Ft.		Sample # 111108-M	NONE DETECTED 4A-34,36; 111208-MA-06,07,08	; 509A8; 413-12	
50 CAD#	ВЗС	Pre-Formed Pipe Insulation 1954 Addition Comments: ASSUMED PRESENT IN WALL FOR RADIATOR	1954 ADDITION 1ST FLOOR WEST STAIRWELL LANDING 2299A DR. INACCESSIBLE.	3 Lin. Ft.	0 Lin. Ft.	N Sample # 100N-3A	20 AM	5	
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.		Sample #	NEW		

IEA Event No.	IEA Materi Type	al	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 WES	1954 ADDITION 1ST FLOOR HALLWAY FEND.	600 Sq. Ft.		Sample #	NONE DETECTED		
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 Sample #	2 CH (MASTIC)	5	
54 CAD#	V0A	Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 2218	6 Sq. Ft.		Sample #	NONE DETECTED		
55 CAD#	V0A	Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 2217	6 Sq. Ft.		Sample #	NONE DETECTED		
55.1 CAD#	X0K	Miscellaneous Material Tackboard Adhesive (1954) Comments: RESIDUAL BROWN ADHESIVE ON NORTH A	ROOM 2217 ND WEST WALLS BEHIND NEW INSTALLATION.	5 Sq. Ft.		Sample #	NONE DETECTED		
56 CAD#	V0A	Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 2216	6 Sq. Ft.		Sample #	NONE DETECTED		
57 CAD#	V0A	Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 2215	6 Sq. Ft.		Sample #	NONE DETECTED		
58 CAD#	К2Н	12" x 12" Vinyl Floor Tile & Mastic Speckled Gray w/Squares Comments:	1ST FLOOR HALLWAY RAMP BETWEEN 1924 & 1954 ADDITIONS	230 Sq. Ft.		Sample # 11120	NONE DETECTED		
58.1 CAD#	X0O	Miscellaneous Material Black Wall Dampproofing Comments: ESTIMATED IN WALLS.	THROUGHOUT 1924 ADDITION	1000 Sq. Ft.		Sample # 12191	NONE DETECTED		
59 CAD#	X0L	Miscellaneous Material Slate Chalkboard Adhesive (1924) Comments:	THROUGHOUT 1924 ADDITION	120 Sq. Ft.		Sample # 09271	NONE DETECTED 2MV-03		
60 CAD#	X0M	Miscellaneous Material Tackboard Adhesive (1924) Comments:	MAIN OFFICE (ROOM 1000)	24 Sq. Ft.	0 Sq. Ft.	N Sample # 09271	3 CH (BEHIND GYPSUM)	5	
61 CAD#	M0B	Plaster 1924 Addition Comments:	THROUGHOUT 1924 ADDITION	40600 Sq. Ft.			NONE DETECTED 08-MA-23,24; 111208-MA-02,04,05;	509A7; 413-11	

IEA Event No.	IEA Materi 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.		Sample # 111208-M	NONE DETECTED A-01		
63 CAD#	S0B	Wood Floor Felt / Vapor Barrier 1924 Addition (Elevated) Comments:	ROOM 2203	80 Sq. Ft.		Sample # 110811-BF	NONE DETECTED		
65 CAD#	K1A	Sheet Vinyl Flooring & Adhesive Tan w/Brown Swirls Comments:	ROOM 2202A	35 Sq. Ft.		Sample # 111208-M	NONE DETECTED A-03		
66 CAD#	K2E	12" x 12" Vinyl Floor Tile & Mastic Small Gray Mottle Comments:	1924 ADDITION 2ND FLOOR HALLWAY	700 Sq. Ft.		Sample # 112508-M	NONE DETECTED A-07		
67 CAD#	K2E	12" x 12" Vinyl Floor Tile & Mastic Small Gray Mottle Comments:	ROOM 3203A	30 Sq. Ft.		Sample #	NONE DETECTED		
67.09 CAD#	SOB	Wood Floor Felt / Vapor Barrier 1924 Addition (Elevated) Comments:	ROOM 3201	240 Sq. Ft.		Sample #	NONE DETECTED		
67.1 CAD#	SOB	Wood Floor Felt / Vapor Barrier 1924 Addition (Elevated) Comments:	ROOM 3202	660 Sq. Ft.		Sample #	NONE DETECTED		
67.2 CAD#	SOB	Wood Floor Felt / Vapor Barrier 1924 Addition (Elevated) Comments:	ROOM 3203	120 Sq. Ft.		Sample #	NONE DETECTED		
67.3 CAD#	SOB	Wood Floor Felt / Vapor Barrier 1924 Addition (Elevated) Comments:	ROOM 3204	60 Sq. Ft.		Sample #	NONE DETECTED		
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.		Sample #	NONE DETECTED		
69 CAD#	K2A	12" x 12" Vinyl Floor Tile & Mastic Beige w/Black Pits Comments:	1954 ADDITION 2ND FLOOR HALLWAY	600 Sq. Ft.		Sample #	NONE DETECTED		
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 Sample #	2 CH (MASTIC)	5	_

IEA Event No.	IEA Materi 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.		Sample #	NEW		
72 CAD#		Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 3215	6 Sq. Ft.		Sample #	NONE DETECTED		
72.1 CAD#	X0K	Miscellaneous Material Tackboard Adhesive (1954) Comments: RESIDUAL BROWN ADHESIVE ON NORTH	ROOM 3215 H AND WEST WALLS BEHIND NEW INSTALLATION.	5 Sq. Ft.		Sample #	NONE DETECTED		
73 CAD#		Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 3216	6 Sq. Ft.		Sample #	NONE DETECTED		
73.1 CAD#	X0K	Miscellaneous Material Tackboard Adhesive (1954) Comments: RESIDUAL BROWN ADHESIVE ON SOUTH	ROOM 3216 H AND EAST WALLS BEHIND NEW INSTALLATION.	5 Sq. Ft.		Sample #	NONE DETECTED		
74 CAD#	V0A	Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 3217	6 Sq. Ft.		Sample #	NONE DETECTED		
75 CAD#		Sink Undercoating Gray Comments: ONE (1) SINK.	ROOM 3218	6 Sq. Ft.		Sample #	NONE DETECTED		
75.1 CAD#	X0K	Miscellaneous Material Tackboard Adhesive (1954) Comments: RESIDUAL BROWN ADHESIVE ON SOUTH	ROOM 3218 H AND EAST WALLS BEHIND NEW INSTALLATION.	5 Sq. Ft.		Sample #	NONE DETECTED		
76 CAD#	ВЗС	Pre-Formed Pipe Insulation 1954 Addition Comments: IN WALL FOR RADIATOR. INACCESSIBL	1954 ADDITION 2ND FLOOR WEST STAIRWELL LANDING 3299A E.	5 Lin. Ft.	0 Lin. Ft.	N Sample #	20 AM	5	



Attn:

Project:

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

EMSL Analytical, Inc.

14375 23rd Avenue North, Minneapolis, Mn 55447

Phone/Fax: (763) 449-4922 / (763) 449-4924 http://www.emsl.com

CustomerPO: ProjectID:

EMSL Order: 351207862 CustomerID: IFEA50

Brooklyn Park, MN 55445 Suite 600 9201 West Broadway Institute For Environmental Assessment **Denice Kuchta** Fax: Received: Collected: Analysis Date: Phone: 12/11/2012 12/11/12 4:15 PM (763) 315-7920 12/11/2012 (763) 315-7900

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

Non-Asbestos Asbestos

351207862-0001 121112MA-01 Description RM 1108 - Wood Floor Vapor Barrier, S0D Appearance Fibrous Brown/Black Homogeneous 75% Fibrous Cellulose 25% Non-fibrous (other) Non-Fibrous % Type None Detected

Analyst(s)

Nicholas Astincion (1)

Rachel Travis, Laboratory Manager or other approved signatory

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

1002

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

CHAIN OF CUSTODY

№ 5790

Page ____ of ____

Client #		Project #	201211057	Building N	lame	Ames	El	inev	tary			100	ed Areas : ratory Us	
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Sample #	Work Area or Phase #		Comments / Location		Sample type or Material code	Volume	Air	Bulk	Dust	PCM	PLM	⊠ H Other	MCE	.8 um .45 um
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The MN Depart	tment of Healt	h Alternative Indo	or Air Standard for this proje	ect is:	F/CC. Ba	tch Number	: 39	512	078	367	2	les Acceptable	? Yes	ONo
Sampled by		Date Time	Delivered by	Date Time	Received b	y lab		ate	Time	Enter	ed by		Date	Time
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Attn:

Denice Kuchta

EMSL Analytical, Inc.

Phone/Fax: 14375 23rd Avenue North, Minneapolis, Mn 55447 (763) 449-4922 / (763) 449-4924

http://www.emsl.com

minneapolislab@emsl.com

CustomerID: EMSL Order: IFEA50 351208049

ProjectID: CustomerPO:

Institute For Environmental Assessment Phone: Received: 12/20/12 10:15 AM (763) 315-7920 (763) 315-7900

Collected: Analysis Date: 12/20/2012 12/19/2012

Brooklyn Park, MN 55445

2001-201211057, Ames Elementary, Saint Paul Public Schools

Project:

Suite 600

9201 West Broadway

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

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

Iro

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 noduct certification, approval, or endorsement by VNLAP, NISTor any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL commends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless quested 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 Broo (763) 1-80

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

CHAIN OF CUSTODY 804

5177

Client # 2	001	Project #	2012/1057 plic Schools	Building Project		mes E	Eleme	nterry			A COUNTY OF THE PARTY OF THE PA	ed Areas ratory Us		
Address	cusic 1	cont) was		Contact	-			Cor	tact Per	son Pho	one		· · · · ·	
-				Other Infor	mation			-						_
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Analysis loca	tion: OO	Site OLab (Regional Office	Other /	NSL		<u>Matr</u>	x type	Ana	lysis	requested	Filt	er ty	<u>pe</u>
Sample #	Work Area or Phase #		Comments /		Sample type or Material code	Volume	Air	Dust	PCM	PLM	Other	MCE	.8 um	.45 um
121912-BF-1	Rm. 3212	West Wall	- Damporoof	ins			0 '	\mathbf{z}	0	X	0	0	0	0
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The MN Departr	nent of Healt	h Alternative Indo	or Air Standard for this p	project is:	F/CC Ba	tch Number	35	aDBM	19	Samp	les Acceptable	2 O Ves	ON	No
Sampled by Branda 15	(he/ 12-	Date Time 19-12 10 pm	Delivered by	Date Tin	Received b	y lab E-F	E 12/2		Ente	red by		Date	Tir	me
Received by	LPYLY (L	Date Time	Delivered by	Date Tin		111	Date	- 22	Deli	vered by		Date	Tin	me



Attn:

Denice Kuchta

EMSL Analytical, Inc.

Phone/Fax: http://www.emsl.com 14375 23rd Avenue North, Minneapolls, Mn 55447 (763) 449-4922 / (763) 449-4924

minneapolislab@emsl.com

EMSL Order: CustomerPO: CustomerID: IFEA50 351300945

ProjectID:

Analysis Date: Received: Phone: 2/25/2013 02/25/13 8:00 AM (763) 315-7920 (763) 315-7900

Collected:

Project: 201224008, Ames Elementary, Saint Paul Public Schools

Brooklyn Park, MN 55445

9201 West Broadway

Institute For Environmental Assessment

Suite 600

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

			Non-Asbestos	<u>estos</u>	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
02212013MA-01- Tar Felt	Room 1110 - Backsplash	Black Fibrous	85% Cellulose	15% Matrix 0% Non-fibrous (other)	None Detected
351300945-0001	adhesive, X0N	Heterogeneous			
02212013MA-01- Adhesive	Room 1110 - Backsplash	Tan Non-Eibrous	20% Cellulose	40% Quartz	None Detected
351300945-0001A	adhesive, X0N	Heterogeneous			

Silas Thompson (2) Analyst(s)

Rachel Travis, Laboratory Manager or other approved signatory

Samples analyzed by EMSL Analytical, Inc. Minneapolis, Mn NVLAP Lab Code 200019-0 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 noroduct certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials person a problem matrix and therefore EMSL ommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless juested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

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

094

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

CHAIN OF CUSTODY

10

3,00

Client #	int Pau	Project :	201224008 Schools	Building		Ame	s	Ele	men	itan	1		ed Areas ratory U				
Address	IAI 140	1 1	catto	Contact I	-	Contact Person Phone											
	Kuchta Other Information					Conact rerson Phone											
				—— Other inform	nanon												
Verbal results to	Der	ice @	A data	Phone, Fax No. or	E-Mail		TAT (circle) 6 hr (1d)2d 3d 4d Specify										
Verbal results re	layed to	DIKE F		Verbal results re	layed by B	Al Dol			D	ate 5	-76	The The	ne				
Analysis loca	tion: OO	Site OLab	O Regional Office	Other		10 00 0		rix ty					_	and by			
	Work Area						MIAL	LIA LY	pe	An	Hysis re	quested	<u>Filt</u>	er t			
Sample #	or Phase #		Comments / Location		Sample type or Material code	Volume	Air	Bulk	Dust	PCM	PLM	Other	MCE	8 um	.45 um		
02212013M4-0	V R	00m 1110	- Backsplash	adhesive	XON		0	×)	0	× o		0	0	0		
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	THE OWNER OF TAXABLE PARTY.		or Air Standard for this pro		The second	ch Number:		1. N				Acceptable?	O Yes	On	lo		
Sampled by Alter	matt 2/2	ate Time	Delivesped by	2/25/13 7:30x	Received by	lab	Dat	2	Time	Enter	ed by		Date	Ti	me		
Mile Alternatt 3/21/13 Nike Alt 1/2 Redived by 2 Date Time Delivered by 2/25 8:00 Am (1 rgp 60)			Date Time				e	Time	ime Delivered by			Date	Ti	me			
()									-	SHARRA		- the	© IE	A. Inc.	2010		



EMSL Analytical, Inc.

Phone/Fax: 14375 23rd Avenue North, Minneapolis, Mn 55447 (763) 449-4922 / (763) 449-4924

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

> CustomerID: EMSL Order: CustomerPO 351206410

ProjectID:

Attn: Brooklyn Park, MN 55445 9201 West Broadway Suite 600 Denice Cliff Institute For Environmental Assessment Fax: Phone:

Project:

2001-201210852 Ames Elementary

Analysis Date: Received: 09/28/12 8:00 AM 10/1/2012 (763) 315-7920

(763) 315-7900

Collected:

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

	Sar
092712MV-01 351206410-0001 092712MV-02 351206410-0002 092712MV-03- Adhesive 351206410-0003 092712MV-03- Thinset 351206410-00034 351206410-0004	Sample
Rm 2101 Chalkboard Adhesive XOB Rm 2102 Tackboard Adhesive XOC Rm 2210 Chalkboard Adhesive & Thinset XOL Rm 2210 Rm 2210 Tackboard Adhesive (Behind Gypsum) XOM	Description
Brown Non-Fibrous Homogeneous Brown Non-Fibrous Homogeneous Gray Non-Fibrous Heterogeneous Brown Non-Fibrous Heterogeneous Brown Non-Fibrous	Appearance
	% Fib
	Non-Asbestos Fibrous %
100% Non-fibrous (other) 100% Non-fibrous (other) 100% Non-fibrous (other) 97% Non-fibrous (other)	% Non-Fibrous
None Detected None Detected None Detected None Detected	<u>Asbestos</u> % Type

Analyst(s)

Mark Erickson (12)

Rachel Travis, Laboratory Manager or other approved signatory

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



EMSL Analytical, Inc.

Phone/Fax: 14375 23rd Avenue North, Minneapolis, Mn 55447 (763) 449-4922 / (763) 449-4924

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

> ProjectID: CustomerID: EMSL Order: CustomerPO IFEA50 351206410

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

Analysis Date: Received: 09/28/12 8:00 AM (763) 315-7920 10/1/2012

Collected:

Phone:

(763) 315-7900

Project: 2001-201210852 Ames Elementary

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

				Non-Asbestos	estos	Asbestos
60	Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
- 1	092712MV-07	Rm 2215	Brown		100% Non-fibrous (other)	None Detected
	351206410-0007	Tackboard Adhesive X0K	Non-Fibrous Heterogeneous			
1	092712MV-08	Rm 2102 Gray	Gray		100% Non-fibrous (other)	None Detected
	351206410-0008	Caulk X0N	Non-Hibrous Homogeneous			
- 1	092712MV-09	Rm 2102 Brown	Brown -	5% Synthetic	92% Non-fibrous (other)	3% Chrysotile
	351206410-0009	Caulk X00	Homogeneous			
1	092712MV-10	Rm 2102 Brown	Brown	5% Synthetic	92% Non-fibrous (other)	3% Chrysotile
	351206410-0010	Caulk X00	Non-Hibrous Homogeneous			
1	092712MV-11	Rm 2212 Brown	Brown	5% Synthetic	92% Non-fibrous (other)	3% Chrysotile
	351206410-0011	Caulk X00	Non-Hibrous Homogeneous			
i						

Analyst(s)

Mark Erickson (12)

Rachel Travis, Laboratory Manager or other approved signatory

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

whiteout from CHAIN OF CUSTODY

present when recipied a/28

6410

CODY № 5567

Client # 2001 Project # 2012/0852, Building Name And Client St Paul Public Schools Project Name						Elementary							Shaded Areas are for Laboratory Use Only!				
Address Conta				t Person Contact Person Phone													
			Other Inform	ation													
Verbal results to	Denice	Cliff	Phone, Fax No. or	E-Mail				TA	T (circle	e) 6 hr	1d(2	d)3d 4d S	pecify				
Verbal results rel			Verbal results rel	ayed by				D	ate			Tim	Time				
Analysis locat	ion: OOr	Site OLab ORegional Office &	Other EMSL			Mat	rix	type	An	alysis	requ	uested	Filt	er t	<u>vpe</u>		
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		
10-VALITEP	1	Chalkboard Adheshie		XOB		0	R	0	0	×	0_		0	0	0		
	Rm 2162		Amelyza Address a Ord			0	ф	0	0	9	0 -		0	0	0		
-03 -04	Km 2410	Chalkbased Adhesive (Behind Gypsum) XOL				0	ď	0	0	J	0			0	0		
-05	1		Cork + Gypsin		hadya Bro	. 0	4	0	0	P	0		0	0	0		
	en 2215	Chalk bound Adhesive	3,72.	XOJ	MENCHOL: 4	70	9	0	0	þ	0		0	O	0		
-07	1	Tackboard Adhesive (And)	ic Brown/ Tan Luger	XOK		0	9	0	0	b	0 _		0	0	0		
-08	Rm 2102	Gray Exterior Window Can	lk '	XON		0	d	0	0	þ	0 _		0	0	0		
-09		Brown Extenor 11 "		XOO		0	9	0	0	Þ	0 _		0	0	0		
-10	1	Boson Interior 11 6	1	XOP		0	9	0	0	8	0_	· · · · · · · · · · · · · · · · · · ·	0	0	0		
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The MN Departm	nent of Healtl	h Alternative Indoor Air Standard for this pr	roject is:	F/CC. Ba	ich Number:			Thus I		Sam	ples A	cceptable?	O Yes	0	No		
Shappled/by //		Date, Time Deliyored by	Date Time	Received by			ate	Time	Ente	red by	- 100 miles ()	T	Date	1	Time		
Received by		Date Time Delivered by	Date Time			D	aje	Time	Deli	vered b	'y		Date	7	Time		