

A&A

ENVIRONMENTAL SERVICES

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RESULTS

November 22, 2016

David C. Schaller
City of Madison
215 Martin Luther King Jr. Blvd, Room 115
Madison, WI 53703
(608) 243-5891, Fax (608) 264-9275


RE: 1301 West Badger Road, Madison, WI

On November 14 2016 fourteen bulk samples were collected of roofing from the upper and lower roofs of the Library Support Center located at 1301 West Badger Road in Madison, WI. The lower roof samples consisted of six layers of tar and felt paper and four layers of roofing materials on the side flashing. The upper samples consisted of four layers of roofing tar and felt paper.

The bulk samples were analyzed for asbestos content by polarized light microscopy (PLM). All samples were reported as no asbestos detected.

If you have any questions concerning this report or the sampling performed please feel free to contact me.

Sincerely,


Kim Sopha
Project Manager/Inspector #AII01851

Encl

KAS/bls



November 11, 2016

A & A Environmental Services
PO Box 708
Poynette, WI 53955

CLIENT PROJECT: 1301 West Badger Rd; AA 65
CEI LAB CODE: A16-9569

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on November 8, 2016. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

A handwritten signature in black ink, appearing to read "Tianbao Bai".

Tianbao Bai, Ph.D., CIH
Laboratory Director





ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

A & A Environmental Services

CLIENT PROJECT: 1301 West Badger Rd; AA 65

CEI LAB CODE: A16-9569

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 11/11/16

TOTAL SAMPLES ANALYZED: 14

SAMPLES >1% ASBESTOS:

TOTAL LAYERS ANALYZED: 14

TEL: 866-481-1412

www.ceilabs.com



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 1301 West Badger Rd; AA 65

CEI LAB CODE: A16-9569

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
96		A2261640	Black	Top Layer Roofing Felt	None Detected
97		A2261641	Black	Top Layer Tar	None Detected
98		A2261642	Black	Fiberglass Tarpaper	None Detected
99		A2261643	Black	Bottom Layer Roofing Paper	None Detected
100		A2261644	Black	Bottom Layer Tar	None Detected
101		A2261645	Black	Bottom Layer Tar	None Detected
102		A2261646	Black	Tar	None Detected
103		A2261647	Gray	Roof Cap Caulking	None Detected
104		A2261648	Gray	Flashing	None Detected
105		A2261649	Gray	Roof Cap Caulking	None Detected
106		A2261650	Black	Top Layer Roofing Felt	None Detected
107		A2261651	Black	Top Layer Roofing Tar	None Detected
108		A2261652	Black	Tarpaper	None Detected
109		A2261653	Black	Tar	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental Services
 PO Box 708
 Poynette, WI 53955

CEI Lab Code: A16-9569
Date Received: 11-08-16
Date Analyzed: 11-10-16
Date Reported: 11-11-16

Project: 1301 West Badger Rd; AA 65

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
96 A2261640	Top Layer Roofing Felt	Heterogeneous Black Fibrous Bound	20%	Synthetic Fiber	80%	Tar	None Detected
97 A2261641	Top Layer Tar	Heterogeneous Black Non-fibrous Bound			100%	Tar	None Detected
98 A2261642	Fiberglass Tarpaper	Heterogeneous Black Fibrous Bound	15% 5%	Fiberglass Cellulose	80%	Tar	None Detected
99 A2261643	Bottom Layer Roofing Paper	Heterogeneous Black Fibrous Bound	15%	Fiberglass	85%	Tar	None Detected
100 A2261644	Bottom Layer Tar	Heterogeneous Black Fibrous Bound	5%	Fiberglass	95%	Tar	None Detected
101 A2261645	Bottom Layer Tar	Heterogeneous Black Fibrous Bound	5%	Fiberglass	95%	Tar	None Detected
102 A2261646	Tar	Heterogeneous Black Non-fibrous Bound	<1%	Fiberglass	100%	Tar	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental Services
 PO Box 708
 Poynette, WI 53955

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Date Received: 11-08-16
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Project: 1301 West Badger Rd; AA 65

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous	Non-Fibrous		
103 A2261647	Roof Cap Caulking	Heterogeneous Gray Non-fibrous Bound	90% 10%	Caulk Binder		None Detected
104 A2261648	Flashing	Heterogeneous Gray Non-fibrous Bound	90% 10%	Caulk Binder		None Detected
105 A2261649	Roof Cap Caulking	Heterogeneous Gray Non-fibrous Bound	90% 10%	Caulk Binder		None Detected
106 A2261650	Top Layer Roofing Felt	Heterogeneous Black Fibrous Bound	20%	Synthetic Fiber 80%	Tar	None Detected
107 A2261651	Top Layer Roofing Tar	Heterogeneous Black Fibrous Bound	5%	Fiberglass	95% Tar	None Detected
108 A2261652	Tarpaper	Heterogeneous Black Fibrous Bound	10% 5%	Fiberglass Cellulose	85% Tar	None Detected
109 A2261653	Tar	Heterogeneous Black Fibrous Bound	5%	Fiberglass	95% Tar	None Detected



LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
 Non-Trem = Non-Asbestiform Tremolite
 Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

LIMIT OF DETECTION: <1% by visual estimation

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation.

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ANALYST: *Samantha Card*
Samantha Card

APPROVED BY: *Tianbao Bai*
Tianbao Bai, Ph.D., CIH
Laboratory Director

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TESTING
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