

1831 Williamson Court • Suite 100 • Louisville, KY 40223 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date: October 13, 2014

Attention: Adam Helton

Helton & Associates, Inc.

Subject: Analysis of bulk samples for asbestos mineral fibers by Polarized Light

Microscopy (PLM) with Dispersion Staining (EPA/600/R-93/116)

RE: MSE-PO84HE

KCDC Cagle Terrace Room B-413 Ceiling Project

HE# 314-891

Dear Mr. Helton:

McCall & Spero Environmental, Inc. has completed the analyses of the bulk samples we received from your offices on October 8, 2014. These samples represent the bulk samples from the KCDC Cagle Terrace Room B-413 Ceiling Project.

The PLM bulk analysis was performed according to the "Method of the Determination of Asbestos in Bulk Building Materials", R. L. Perkins and B. W. Harvey (EPA/600/R-93/116).

The results for the three (3) samples are summarized in the following report. Please note that for samples consisting of two or more distinct components, each component is analyzed and reported individually (EPA 40 CFR Part 61 [FRL-4821-71]).

Thank you for consulting McCall & Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

M. Allison Brown, B.A. Laboratory Director



SUMMARY OF PLM BULK ANALYSIS RESULTS

Page 1

Project Name: KCDC Cagle Terrace Room B-413 Ceiling Project HE# 314-891

McCall & Spero Environmental Project No. MSE-PO84HE

MSE # PO84HE-	SAMPLE # DESCRIPTION	ASBESTOS TYPE & %	OTHER FIBROUS MATERIAL & %	% NON-FIBROUS MATERIAL	COLOR
	KCDC-CAG-01A				
001	Ceiling Material	CH / 2%	Cellulose / 3%	95%	White
	KCDC-CAG-01B				
002	Ceiling Material	CH / 2%	Cellulose / 3%	95%	White
	KCDC-CAG-01C				
003	Ceiling Material	CH / 2%	Cellulose / 3%	95%	White

NOTES:

ND = None Detected

CH = Chrysotile

A = Amosite

AC = Actinolite

CR = Crocidolite

AN = Anthophyllite TR = Tremolite

For samples consisting of separate components, each component is analyzed and reported separately.

Results apply only to items tested. Quantification is accurate to within ± 10%. Results from this report must not be reproduced, except in full, with the approval of McCall & Spero Environmental, Inc. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

** EPA recommends that bulk materials found negative for asbestos or less than one percent asbestos by polarized light microscopy that fall into one of five dominantly nonfriable categories be reanalyzed by an additional method, such as transmission electron microscopy. (EPA Notice of Advisory, FR Vol. 59, No. 146 & Test Method EPA 600/ R-93/116).

Analyst: Ryan J. Cox, B.S. My Key

Company:

HELTON & ASSOCIATES Telephone #

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BULK SAMPLE CHAIN OF CUSTODY FORM

(865) 970-3932

Telephon	ne# <u>(865)</u> 970-3932 Fax#: (8	65) 970-2912	
Contact: Adam He I ton	Client Project Number: 314-		
Relinquished by: Adam Helfan	D	Time: 12:00 P. M.	
Written Report To: Adam Hellan	Time.	12.00 F. IVI.	
Project Name: KCOC Cook Tracks A-	R.412 4		
ruin-Around (Circle Same 24 / 2-3	8.413 Ce: 10/19		
One): Day Hour Day) D ***	ftou II D	
Analysis Requested (Circle One): PLM Bulk Analysis TE	Tubil A	fter Hour Rush	
	M Qualitative Analysis TEM Quantitative	Analysis (4-5 Day)	
For Laboratory Use Only			
MSE Project # 10894F			
Samples Received by:	Method: EPA/600/R-93/116		
Samples Received by:	Date: 10-8-14 Time:	15:00 Am	
Client Sample			
Number Location	Sample Description	Sampled By	
KCDC-CAG-OIA Apt. Front	Carley Andersol		
MCDC-CAG-OIB Apt. Kitchen	Ceiling Material	АН	
KCOC-CAG-OIC Apt. Back Room	Ceiling Material	AH	
The Concept record	Ceility Material	AH	
		АН	
		НА	
		АН	
		AH	
		АН	
		НА	