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# PRE-RENOVATION ASBESTOS SURVEY

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Project:

Water Treatment Plant Lab Renovation

Address:

200 Coffee Tree Road

Frankfort, Ky 40601

Prepared By: Robert Tyler Fitch

Date 5/18/2023

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(Credentials)

## ❖ Introduction

Pre-renovation (limited) asbestos survey at the water treatment plant laboratory in anticipation for laboratory renovations was conducted on May 17<sup>th</sup>, 2023.

A list of all suspect materials identified and sampled are included in Appendix A of this report.

The visual inspection, bulk sample collection, and survey documentation was performed by Robert Tyler Fitch of the Frankfort Plant Board. (Appendix B)

- Asbestos Inspector license # 77983
- Expires 2/15/2024.

## ❖ Methodology

My investigation consisted of the following:

- Visual inspection.
- Collection of samples of suspect asbestos-containing materials.
- Submitting asbestos samples to McCall and Spero Environmental, Inc. is accredited by National Voluntary Laboratory Accreditation Program (NVLAP) (No. 101895-0) for asbestos analysis.
- Presenting analytical results in a report.

The survey was restricted to the materials that may be impacted by the renovation. All other areas of the building were not inspected or tested during this survey.

The types, numbers, and locations of samples were determined based on provided information, visual observations, regulatory requirements, and other project management considerations.

## ❖ Findings

**Asbestos:**

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Asbestos survey results are summarized in the attached table (Appendix A).

Asbestos was identified in the following materials:

- Laboratory countertops:
  - 4 – countertops sized: 73” x 24” x 1.25”
  - 2 – countertops sized: 94” x 27” x 1.25”
  - 2 – countertops sized: 40” x 32” x 1.25”
  - 2 – countertops sized: 48” x 27” x 1.25”

Presumed asbestos containing material (PACM) consider in the following item:

- Fume Hood (not sampled, PACM)

The detailed laboratory reports and completed Sampling Data Forms (Chains of Custody) and photos are contained in Appendix A.

# Appendix A



**McCall and Spero**  
**Environmental, Inc.**

Specialists in Microanalysis

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

E-mail: [customerservice@mselabs.com](mailto:customerservice@mselabs.com) • Website: [www.mselabs.com](http://www.mselabs.com)

Date: May 17, 2023

Attention: Robert Fitch  
Frankfort Plant Board

Subject: Analysis of bulk samples for asbestos mineral fibers by Polarized Light  
Microscopy (PLM) with Dispersion Staining (EPA/600/R-93/116)

RE: MSE-P5173FPB  
Water Treatment Plant Lab Renovation Project  
FPB PO# 22825

Dear Mr. Fitch:

McCall & Spero Environmental, Inc. has completed the analysis of the bulk samples we received from your offices on May 17, 2023. These samples represent the bulk samples from the Water Treatment Plant Lab Renovation 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 fourteen (14) 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,

Kevin R. Bean, B.A.  
PLM Laboratory Director



**SUMMARY OF PLM BULK ANALYSIS RESULTS**

Page 1

Project Name: Water Treatment Plant Lab Renovation Project  
 McCall & Spero Environmental Project No. MSE-P5173FPB

MSE # P5173FPB	SAMPLE # DESCRIPTION	ASBESTOS TYPE & %	OTHER FIBROUS MATERIAL & %	% NON- FIBROUS MATERIAL	COLOR
001	1A Ceiling Tile	ND	Cellulose / 20% Glass / 30%	50%	White
002	1B Ceiling Tile	ND	Cellulose / 20% Glass / 30%	50%	White
003 (A)	2A (A) Running Board	ND**	Cellulose / 2%	98%	Brown
003 (B)	2A (B) Glue	ND**	Cellulose / 5%	95%	Yellow
004 (A)	2B (A) Running Board	ND**	Cellulose / 2%	98%	Brown
004 (B)	2B (B) Glue	ND**	Cellulose / 5%	95%	Yellow
005	3A Countertop	CH / 5%	Cellulose / 3%	92%	Black
006	3B Countertop	Assumed Positive, See MSE Sample #005			
007 (A)	4A (A) Floor Tile	ND**	Cellulose / 2%	98%	Tan
007 (B)	4A (B) Glue	ND**	Cellulose / 5%	95%	Yellow
008 (A)	4B (A) Floor Tile	ND**	Cellulose / 2%	98%	Tan
008 (B)	4B (B) Mastic	ND**	Cellulose / 5%	95%	Yellow
009 (A)	5A (A) Backsplash Vinyl	ND**	Cellulose / 3%	97%	Black
009 (B)	5A (B) Glue	ND**	Cellulose / 5%	95%	Yellow

McCall & Spero Environmental, Inc.

**SUMMARY OF PLM BULK ANALYSIS RESULTS**

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NOTES:

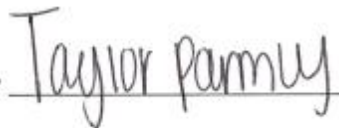
ND = None Detected      CH = Chrysotile      A = Amosite      AC = Actinolite  
CR = Crocidolite      AN = Anthophyllite      TR = Tremolite

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

Results apply only to items tested. Quantification is accurate to within  $\pm 10\%$ . 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: Taylor B. Parmly



McCall & Spero Environmental, Inc.





# McCall and Spero Environmental, Inc.

Specialists in Microanalysis

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## BULK SAMPLE CHAIN OF CUSTODY FORM

Company: <u>Frankfort Plant Board</u>	Telephone # <u>502-395-2206</u>	Fax #: <u>502-223-4449</u>
Contact: <u>Robert Tyler Fitch</u>	Client Project Number: _____	
Relinquished by: <u>Robert Tyler Fitch</u>	Date: <u>5/17/23</u>	Time: _____
Written Report To: <u>RFitch@Fewpb.com</u>		
Project Name: <u>Water treatment Plant Lab Renovation</u>		
Turn-Around (Circle One): <u>Same Day</u> 24 Hour 2-3 Day 4-5 Day Weekend Rush After Hour Rush		
Analysis Requested (Circle One): <u>PLM Bulk Analysis</u> TEM Qualitative Analysis TEM Quantitative Analysis (4-5 Day)		

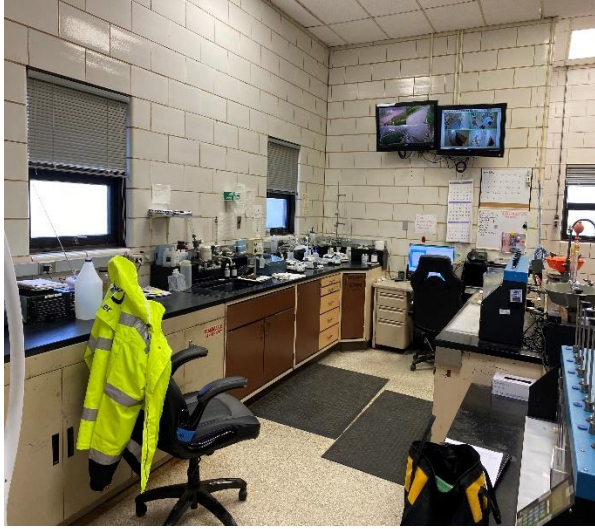
*For Laboratory Use Only*

MSE Project # <u>PS173FPB</u>	Method: <u>EPA/600/R-93/116</u>
Samples Received by: <u>TBP</u>	Date: <u>5/17/23</u> Time: <u>10AM</u>

Client Sample Number	Location	Sample Description	Sampled By
1A (1)	Lab ceiling	White Drop ceiling	RTF
1B (1)	" "	" " "	RTF
2A	Bottom wall	Brown running board / Glue	RTF
2B	Bottom cabinets	" " " "	RTF
3A (2)	Lab counters	Black countertops	RTF
3B (2)	" "	" "	RTF
4A (3)	Lab floor	1/4 12"x12" Floor tile / Glue	RTF
4B (3)	" "	" " " " "	RTF
5A	above counters	backsplash (vinyl) / Glue	RTF

PO# 22825

(#) = HA  
★ - Positive Stop



West Side of Lab



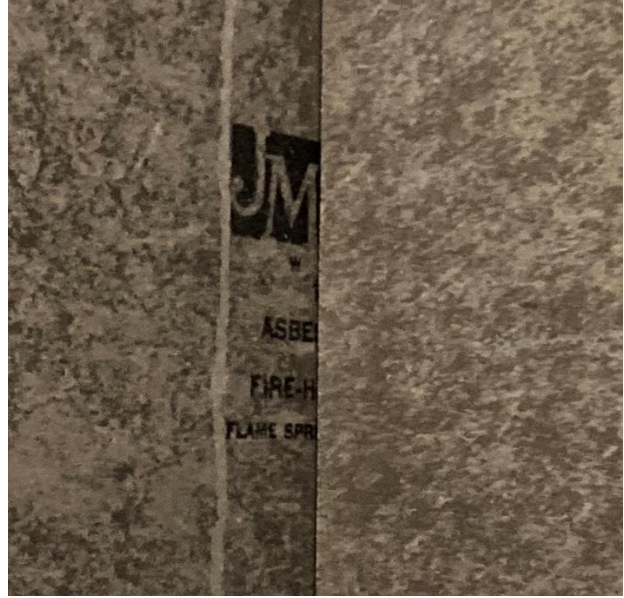
East Side of Lab



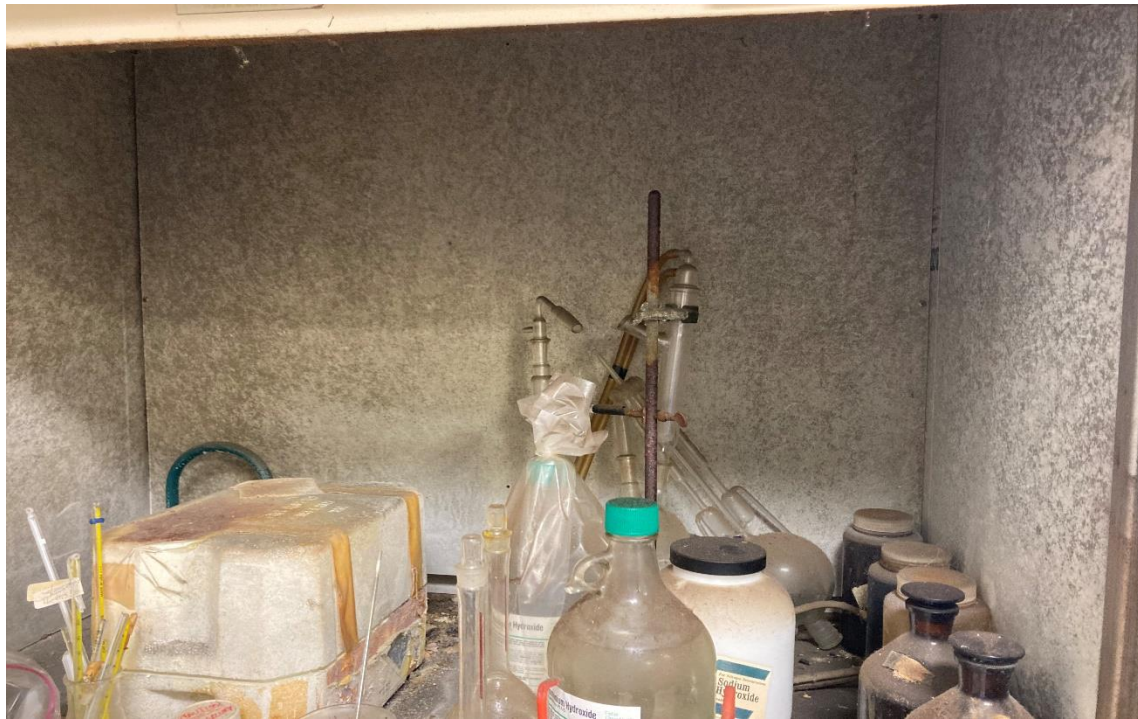
Sample 3A



Fume Hood

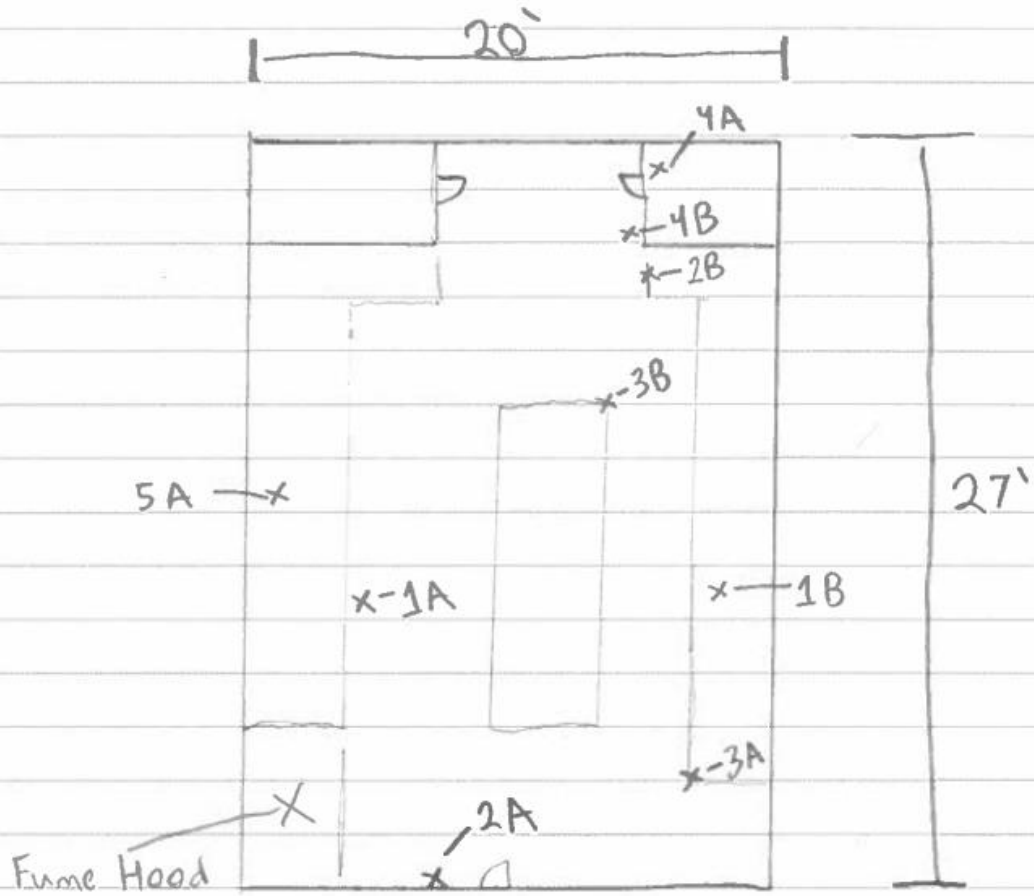


Inside Fume Hood (PACM)



Inside Fume Hood

## Sample Locations



# Appendix B

