



February 19, 2025

Mr. Jay B. Fischer, PE  
Morrison-Maierle  
2880 Technology Blvd  
Bozeman, Montana 59718

Delivered via email [jfischer@m-m.net](mailto:jfischer@m-m.net)

**SUBJECT: Pre-Renovation Asbestos Inspection Report**  
Fire System Upgrade Project  
Brick Breeden Fieldhouse  
Montana State University  
Bozeman, Montana  
Tetra Tech Project No. 117-001109-25003

Dear Mr. Fischer:

On February 6 and 7, 2025, Tetra Tech, Inc. (Tetra Tech) conducted a pre-renovation asbestos inspection at the above-referenced site. Based on correspondence with you before the commencement of the project, Tetra Tech was instructed to inspect for suspect asbestos-containing materials (ACM) for future renovation purposes. Details of our inspection are provided below.

### PRE-RENOVATION ASBESTOS INSPECTION

The pre-renovation asbestos inspection was conducted in accordance with the Administrative Rules of Montana (ARM) 17.74.354, using the currently recognized standard protocol developed under the National Emission Standards for Hazardous Air Pollutants (NESHAP) and the Asbestos Hazard Emergency Response Act (AHERA), as administered by the State of Montana Department of Environmental Quality (MDEQ).

Messrs. Paydn Borland and Raistlin Contreras of Tetra Tech, MDEQ Accredited Asbestos Inspectors, collected samples of suspect ACM. **Attachment A** provides their MDEQ Inspector Accreditations.

The bulk samples were shipped, along with the completed chain of custody (COC) documentation to Crisp Analytical of Carrollton, Texas for the analysis of asbestos fibers by polarized light microscopy (PLM) using U.S. Environmental Protection Agency (EPA) Methods described in 40 CFR Part 763 Appendix E Subpart E (Interim and EPA 600/R-93 / 116 (Improved)). A copy of the laboratory analysis report and COC is provided in **Attachment B**.

A summary of the ACM assumed to contain asbestos is provided in **Table 1**. Approximate sample collection locations are provided in **Figures 1 through 3** and approximate assumed ACM locations in **Figures 4 and 5**. A duplicate summary of ACM as required by ARM 17.74.354(7)(i) is provided in **Attachment C**.

**Table 1. Summary of Assumed ACM**

HA Number	Material Description and Location	Percent Asbestos	Material Type	NESHAP Category
FH-T12.1	Vermiculite insulation located in Rooms 107, 108C, 112B, 116A, 116B, 118A, 120, 120A, 120B, 120C, 121, 122B, 122C, 126, 126A, 126B, 126C, 126D, 130B, 134, 174, 175, 178, 179, 183, 184, 194, 194S, 225, 238, 249, 253, and 260-265 <sub>1</sub>	Assumed	TSI	RACM

HA = Homogeneous Area Number, NESHAP = National Emission Standard for Hazardous Air Pollutants, RACM = Regulated Asbestos Containing Material, TSI = Thermal System Insulation, Assumed = Material assumed to be ACM based on historical asbestos content associated with similar materials, and <sub>1</sub> = Hidden materials may be found in inaccessible areas throughout the building

According to state and federal regulations, the ACM identified in **Table 1** must be removed before disturbance. The ACM must be removed by a licensed asbestos abatement contractor using appropriate asbestos abatement methods and procedures following applicable state and federal regulations. Following the completion of asbestos removal, a visual inspection and asbestos air clearance need to be conducted as required by ARM 17.74.357. Any contractor preparing to bid or perform work on the site should be informed of the potential presence of ACMs. Contractors should also be informed of compliance requirements under current state and federal regulations.

The following suspect ACMs sampled from the site were found not to contain asbestos by laboratory analysis:

- Painted smooth wallboard system located on walls in Rooms 101, 101A, 101B, 102, 104, 106, 114, 114J, 131, 136, 138C, 138D, 138F, 172, 173B, 174, 175, 188, ceilings of Rooms 106, 120A, 120B, 120C, and 190 (FH-M3.1A, B, C)
- Fire taped wallboard system located in Rooms 133, 133A, 133B, 133C, 139-142, 142A, 143, 143A, 143B, 143C, 144-156, 160, and 160A (FH-M3.2A, B, C)
- 2-foot by 4-foot white suspended ceiling panels with pinholes and punch marks located in Rooms 005-008, 010-014, 126A, 126C, 126E, 133, 133A, 133B, 133C, 139-142, 142A, 143, 143A, 143B, 143C, 144-156, 160, 160A, 161-172, 173B, 174, 185, 194A, 206, 206A, 206B, 206C, 212, 213, 215-224, and 240 (FH-M5.1A, B, C)
- 2-foot by 4-foot in a 2-foot by 2-foot pattern white suspended ceiling panels with pinholes and fissures located in Rooms 101, 101A, 101B, 102, 104, and 175 (FH-M5.2A, B, C)
- 12-inch by 12-inch white ceiling tiles with pinholes and punch marks located in Room 103 (FH-M6.1A, B, C)
- Tan brick and associated gray mortar located in Rooms 121, 122B, 122D, 126A, 126B, 126G, and 138B (FH-M12.1A, B, C)
- Rough painted brick and gray mortar located in rooms 015A and 017 (FH-M13.1A, B, C)
- Gray concrete ceiling located in Rooms 002, 107, 121, 122, 122D, 123, 175, 178, 179, 183-185, 203, 208, 225-227, 230, 230A, 233, 235, 236, 251, 252, and 255 (FH-M18.1A, B, C)
- Various painted CMU block and associated gray mortar in a vertical pattern located in Rooms 120, 184, 194A, 174, 103, 107, 175, 178, 114, 119, 120A, 120B, 120C, 183, 121, 122, 123, 126, 122D, 126A, 126B, 188, 136, 138, 138A, 138B, 189, 190, 249, 243, 209, 210, 225, 208, 207A, 203, 235, 236, 233, 255, 230, 230A, 252, 227, 251, 226, 229, 231, 232, 239, 254, 256, 237, 238 (FH-M22.1A, B, C)
- Various painted CMU and associated gray mortar in an offset pattern located in Rooms 114, 114G, 114H, 114I, 114J, 119, and 177 (FH-M22.2A, B, C)
- White painted rough-faced CMU block and associated gray mortar located in Rooms 009 and 015A (FH-M22.3A, B, C)
- Tectum ceiling panels located in Room 120 (FH-M34.1A, B, C)
- Various painted orange peel texture wallboard systems located in Rooms 126 and 126A, 126B, 126C, 126D, 126E, 126F, and 126G (FH-S3.1A, B, C, D, E, F, G)
- Various painted light orange peel texture wallboard systems located in Rooms 005-014, 133, 133A, 133B, 133C, 139-142, 142A, 143, 143A, 143B, 143C, 144-156, 160, and 160A (FH-S3.2A, B, C, D, E, F, G)
- Gray spray-on fireproofing located in Rooms 109, 114, 114J, 114I, 119, 120A, 120B, 120C, 138, 138F, 177, 185, and 188 (FH-S5.1A, B, C, D, E, F, G)

## **LIMITATIONS**

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Our opinions are intended exclusively for use by Morrison-Maierle. The scope of services performed by Tetra Tech may not be appropriate to satisfy the needs of other users, and any use or re-use of this document, or the findings presented herein is prohibited and at the sole risk of the user. No additions or deletions are permitted without Tetra Tech's express written consent. Furthermore, the opinions presented herein are limited by the requested scope of services and the site conditions existing at the time of our investigation. Therefore, our opinions and recommendations may not apply to future site conditions which we have not had the opportunity to evaluate.

It has been a pleasure assisting you with this project. If you have any questions or need additional information, please contact me in our Tetra Tech Billings, Montana office at (406) 248-9161.

Respectfully submitted,

### **TETRA TECH**

*Roger W. Herman, Jr.*

Roger W. Herman, Jr.  
Asbestos, Lead & IH Services Manager

Figures

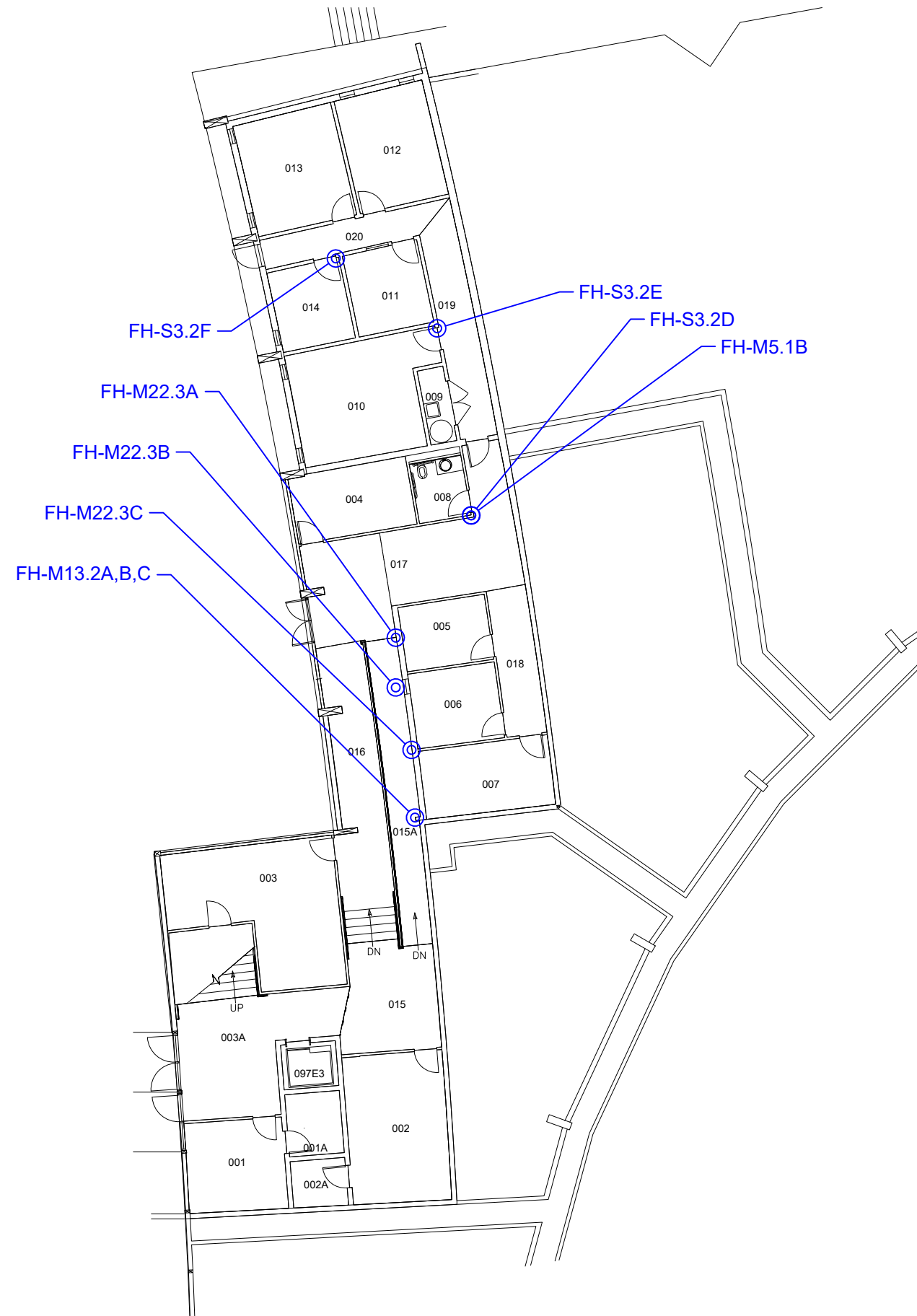
Attachment A – MDEQ Inspector Accreditations

Attachment B – Laboratory Analytical Report and COC

Attachment C – Duplicate Summary of ACM

*I:\H-M\Morrison-Maierle Inc\117-001109-25003 - Brick Breeden Fieldhouse ASB\05-Deliverables\Final\M-M\_MSU\_Brick Breeden Field House\_Pre-Reno Asbestos Inspection Report.docx*

## FIGURES



**Legend**

001 Room number

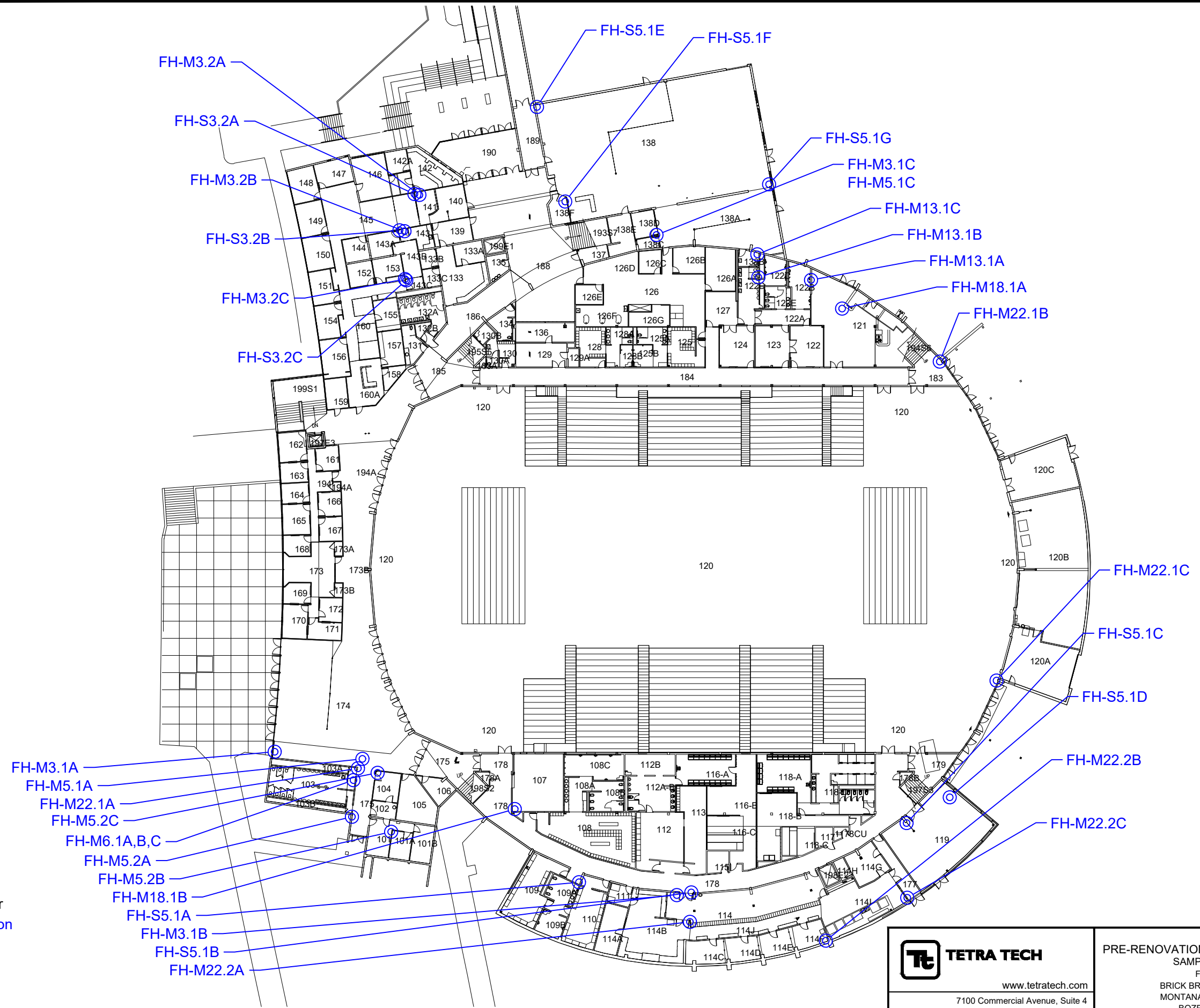
⊙ Sample location

**TETRA TECH**  
www.tetrattech.com  
7100 Commercial Avenue, Suite 4  
Billings, Montana 59101  
PHONE: 406-248-9161 FAX: 406-248-9282

PRE-RENOVATION ASBESTOS INSPECTION  
SAMPLE LOCATIONS  
BASEMENT FLOOR  
BRICK BREEDEN FIELDHOUSE  
MONTANA STATE UNIVERSITY  
BOZEMAN, MONTANA

Project No.:	117-00168-
Designed By:	
Drawn By:	GAB
Checked By:	PB
<b>F-01</b>	

Not To Scale



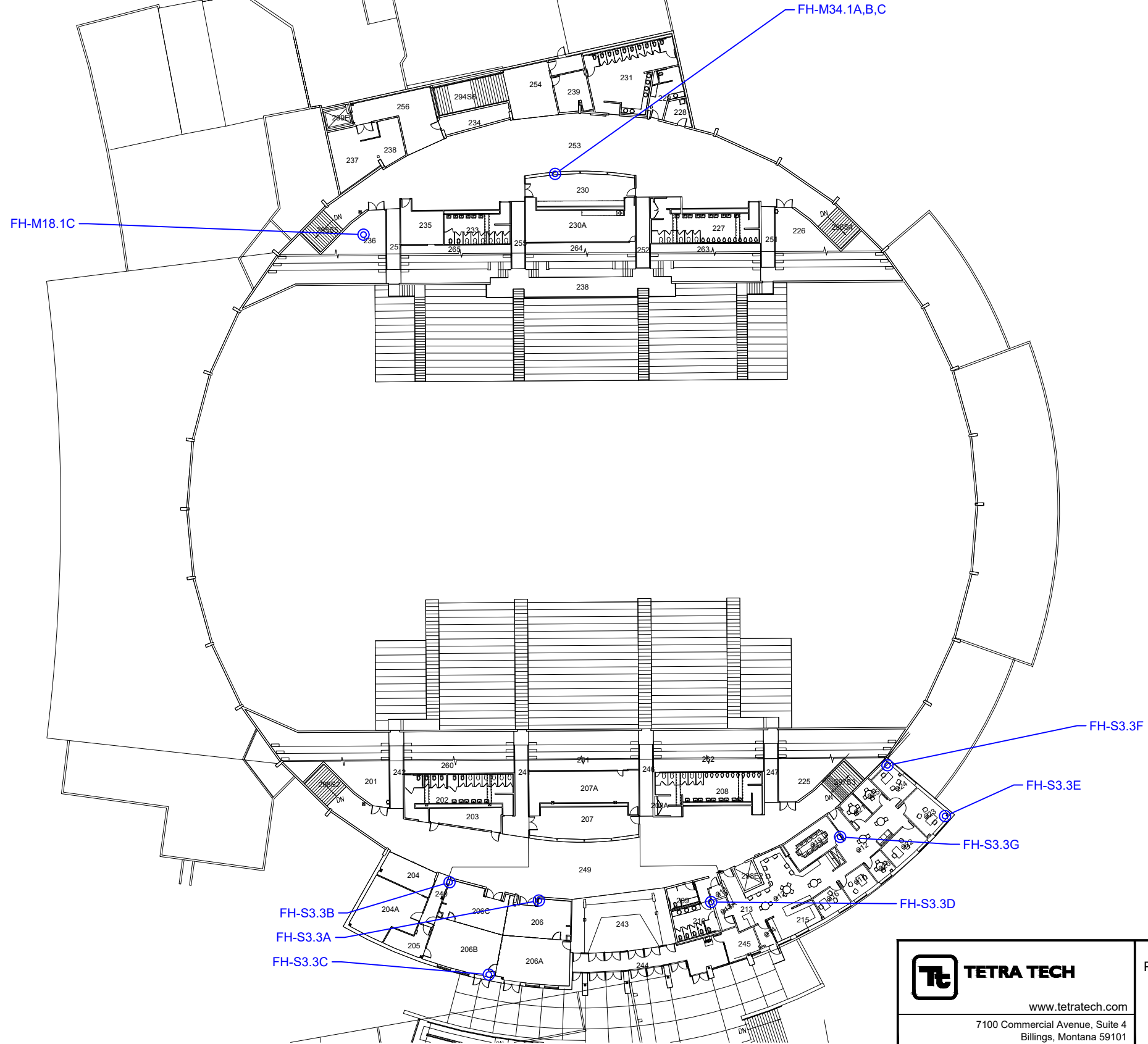
**Legend**  
 001 Room number  
 ⊙ Sample location

FH-M3.1A  
 FH-M5.1A  
 FH-M22.1A  
 FH-M5.2C  
 FH-M6.1A,B,C  
 FH-M5.2A  
 FH-M5.2B  
 FH-M18.1B  
 FH-S5.1A  
 FH-M3.1B  
 FH-S5.1B  
 FH-M22.2A

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 www.tetrattech.com  
 7100 Commercial Avenue, Suite 4  
 Billings, Montana 59101  
 PHONE: 406-248-9161 FAX: 406-248-9282

PRE-RENOVATION ASBESTOS INSPECTION  
 SAMPLE LOCATIONS  
 FIRST FLOOR  
 BRICK BREEDEN FIELDHOUSE  
 MONTANA STATE UNIVERSITY  
 BOZEMAN, MONTANA

Project No.:	117-00168-
Designed By:	
Drawn By:	GAB
Checked By:	PB
<b>F-02</b>	



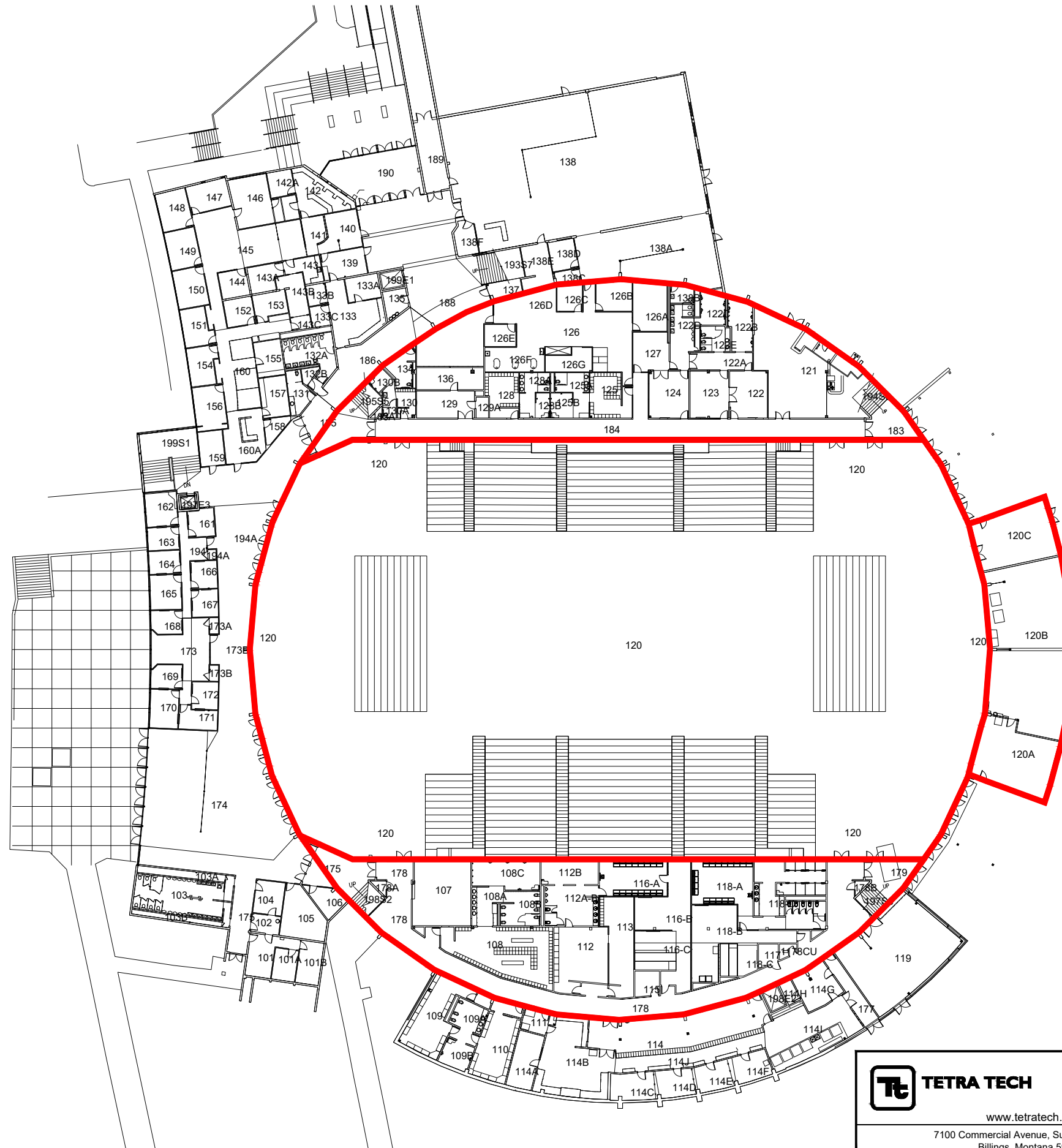
**Legend**  
 001 Room number  
 ⊙ Sample location

**TETRA TECH**  
 www.tetrattech.com  
 7100 Commercial Avenue, Suite 4  
 Billings, Montana 59101  
 PHONE: 406-248-9161 FAX: 406-248-9282

PRE-RENOVATION ASBESTOS INSPECTION  
 SAMPLE LOCATIONS  
 SECOND FLOOR  
 BRICK BREEDER FIELDHOUSE  
 MONTANA STATE UNIVERSITY  
 BOZEMAN, MONTANA

Project No.:	117-00168-
Designed By:	
Drawn By:	GAB
Checked By:	PB
<b>F-03</b>	





**Legend**

- Vermiculite insulation
- 001 Room number

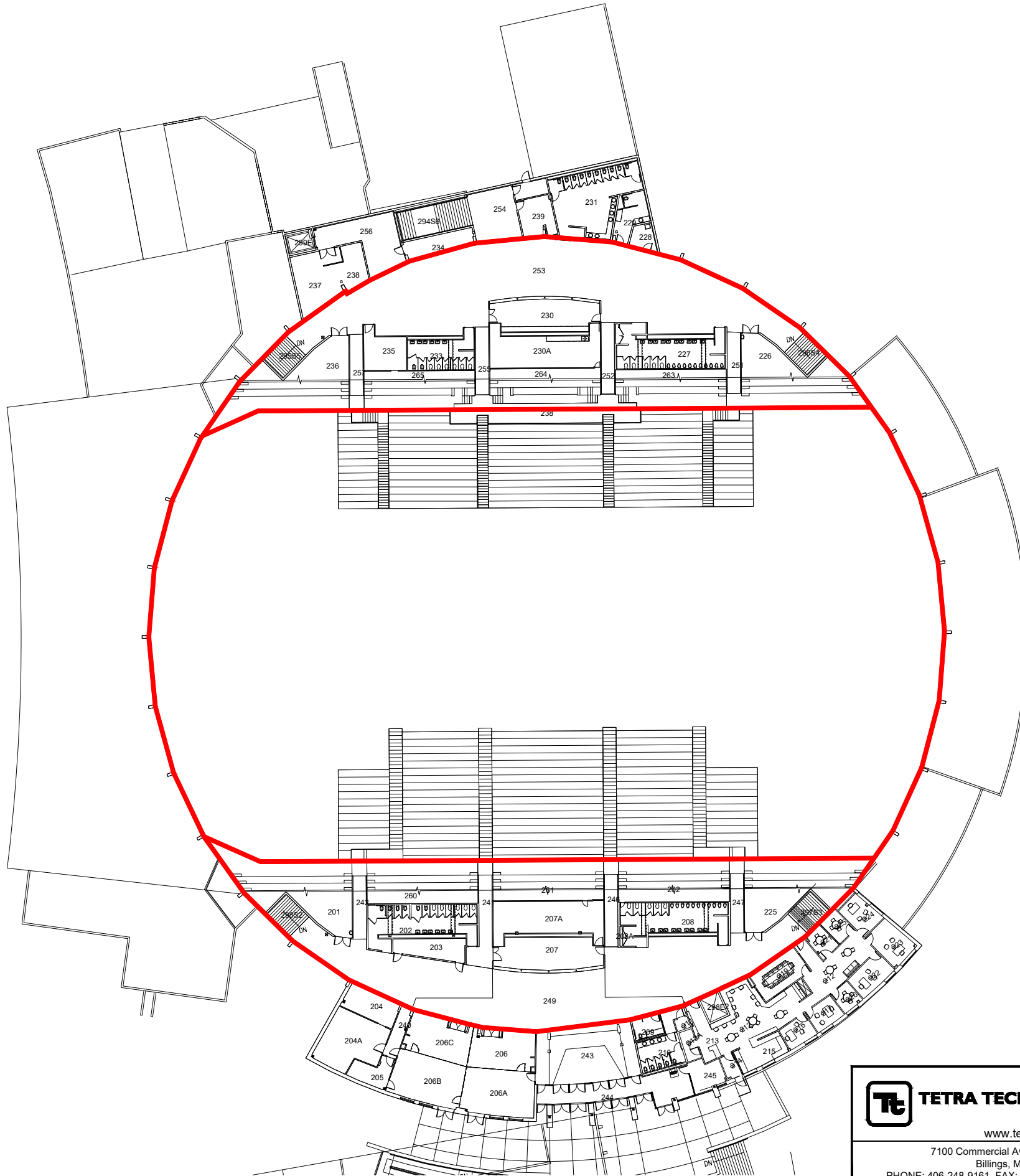
**TETRA TECH**  
[www.tetrattech.com](http://www.tetrattech.com)  
 7100 Commercial Avenue, Suite 4  
 Billings, Montana 59101  
 PHONE: 406-248-9161 FAX: 406-248-9282

**PRE-RENOVATION ASBESTOS INSPECTION**  
**ASBESTOS CONTAINING MATERIAL LOCATIONS**  
 FIRST FLOOR  
 BRICK BREEDEN FIELDHOUSE  
 MONTANA STATE UNIVERSITY  
 BOZEMAN, MONTANA

Project No.:	117-00168-
Designed By:	
Drawn By:	GAB
Checked By:	PB

**F-04**





**Legend**

- Vermiculite insulation
- 001 Room number

**TETRA TECH**  
[www.tetrattech.com](http://www.tetrattech.com)  
 7100 Commercial Avenue, Suite 4  
 Billings, Montana 59101  
 PHONE: 406-248-9161 FAX: 406-248-9282

**PRE-RENOVATION ASBESTOS INSPECTION**  
**ASBESTOS CONTAINING MATERIAL LOCATIONS**  
 SECOND AND THIRD FLOORS  
 BRICK BREEDEN FIELDHOUSE  
 MONTANA STATE UNIVERSITY  
 BOZEMAN, MONTANA

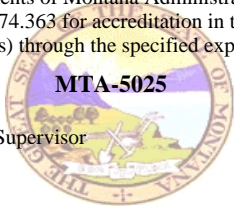
Project No.:	117-00168-
Designed By:	
Drawn By:	GAB
Checked By:	PB
<b>F-05</b>	

Not To Scale

**ATTACHMENT A**  
**MDEQ Inspector Accreditations**

**PAYDN BORLAND**

has met the requirements of Montana Administrative Rule 17.74.362 and/or 17.74.363 for accreditation in the following asbestos occupation(s) through the specified expiration date(s).



Asbestos Inspector  
Project Contractor/Supervisor

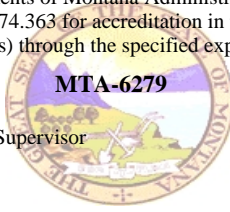
01/16/2026  
01/09/2026

MT DEQ Asbestos Control Program

PAYDN BORLAND  
1004 WEST I ROAD  
WORDEN MT 59088

**RAISTLIN A CONTRERAS**

has met the requirements of Montana Administrative Rule 17.74.362 and/or 17.74.363 for accreditation in the following asbestos occupation(s) through the specified expiration date(s).



Asbestos Inspector  
Project Contractor/Supervisor

09/11/2025  
09/26/2025

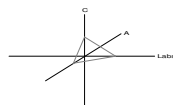
MT DEQ Asbestos Control Program

RAISTLIN A CONTRERAS  
5804 TWINS WAY  
UNIT 2  
BILLINGS MT 59101

**ATTACHMENT B**  
**Laboratory Analytical Report and COC**

**CA Labs**  
Dedicated to Quality

**Crisp Analytical, L.L.C.**  
1929 Old Denton Road  
Carrollton, TX 75006  
Phone 972-242-2754  
Fax 972-242-2798



**CA Labs, L.L.C.**  
12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

## **Materials Characterization - Bulk Asbestos Analysis**

### **Laboratory Analysis Report - Polarized Light**

#### **Tetra Tech, Inc.**

7100 Commercial Ave Suite 4  
Billings, Montana 59101

Customer Project: MSU Field House  
Reference #: CAL25021000AG Date: 02/18/25

#### **Analysis and Method**

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

#### **Discussion**

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

#### **Qualifications**

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

*Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235*  
**AIHA LAP, LLC Laboratory #102929**



Overview of Project Sample Material Containing Asbestos

Customer Project:		MSU Field House			CA Labs Project #: CAL25021000AG	
Laboratory Sample #	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types	

**No Asbestos Detected.**

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235  
**AIHA LAP, LLC Laboratory #102929**

**Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested as received. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b> <b>Tetra Tech, Inc.</b> 7100 Commercial Ave Suite 4 Billings, Montana 59101	<b>Attn:</b>	<b>Customer Project:</b> MSU Field House <b>Turnaround Time:</b> 5 days	<b>CA Labs Project #:</b> CAL25021000AG  <b>Date:</b> 2/18/2025 <b>Samples Rec'd:</b> 2/11/25 10:30AM <b>Date Of Sampling:</b> 2/7/2025 <b>Purchase Order #:</b>
Phone #	406-248-9161		
Fax #	406-248-9282		

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
13823	FH M3.1A		M3.1A-1	tan surfaced off-white compound	n	None Detected		100% qu,bi,ca
13823			M3.1A-2	tan compound (beneath tape)	y	None Detected		100% qu,ca
13823			M3.1A-3	white drywall with brown paper	y	None Detected	20% ce	80% qu,gy
13824	FH M3.1B		M3.1B-1	white compound	y	None Detected		100% qu,ca
13824			M3.1B-2	white drywall with brown paper	y	None Detected	20% ce	80% qu,gy
13825	FH M3.1C		M3.1C-1	white surfaced white compound	n	None Detected		100% qu,bi,ca
13825			M3.1C-2	white compound (beneath tape)	y	None Detected		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

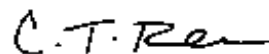
Approved Signatories:



Josh Strange  
Analyst



Jose Matute  
Analyst



Tanner Rasmussen  
Technical Manager

Julio Robles  
Senior Analyst

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b> <b>Tetra Tech, Inc.</b> 7100 Commercial Ave Suite 4 Billings, Montana 59101	<b>Attn:</b>	<b>Customer Project:</b> MSU Field House <b>Turnaround Time:</b> 5 days	<b>CA Labs Project #:</b> CAL25021000AG  <b>Date:</b> 2/18/2025 <b>Samples Rec'd:</b> 2/11/25 10:30AM <b>Date Of Sampling:</b> 2/7/2025 <b>Purchase Order #:</b>
Phone #	406-248-9161		
Fax #	406-248-9282		

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
13825			M3.1C-3	white drywall with brown paper	y	None Detected	20% ce	80% qu.gy
13826	FH M3.2A		M3.2A-1	white drywall with brown paper	y	None Detected	20% ce	80% qu.gy
13827	FH M3.2B		M3.2B-1	white compound	y	None Detected		100% qu.ca
13827			M3.2B-2	white compound (beneath tape)	y	None Detected		100% qu.ca
13827			M3.2B-3	white drywall with brown paper	y	None Detected	20% ce	80% qu.gy
13828	FH M3.2C		M3.2C-1	tan surfaced white compound	n	None Detected		100% qu.bi.ca
13828			M3.2C-2	white compound (beneath tape)	y	None Detected		100% qu.ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

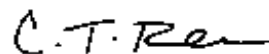
Approved Signatories:



Josh Strange  
Analyst



Jose Matute  
Analyst



Technical Manager  
Tanner Rasmussen

Senior Analyst  
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
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9. < 1% Result point counted positive
10. TEM analysis suggested

**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b> <b>Tetra Tech, Inc.</b> 7100 Commercial Ave Suite 4 Billings, Montana 59101	<b>Attn:</b>	<b>Customer Project:</b> MSU Field House <b>Turnaround Time:</b> 5 days	<b>CA Labs Project #:</b> CAL25021000AG  <b>Date:</b> 2/18/2025 <b>Samples Rec'd:</b> 2/11/25 10:30AM <b>Date Of Sampling:</b> 2/7/2025 <b>Purchase Order #:</b>
Phone #	406-248-9161		
Fax #	406-248-9282		

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
13828			M3.2C-3	white drywall with brown paper	y	None Detected	20% ce	80% qu,gy
13829	FH M5.1A		M5.1A-1	white surfacing	y	None Detected		100% qu,bi
13829			M5.1A-2	tan ceiling tile	y	None Detected	35% ce 35% fg	30% qu,ca,pe
13830	FH M5.1B		M5.1B-1	white surfacing	y	None Detected		100% qu,bi
13830			M5.1B-2	tan ceiling tile	y	None Detected	35% ce 35% fg	30% qu,ca,pe
13831	FH M5.1C		M5.1C-1	white surfacing	y	None Detected		100% qu,bi
13831			M5.1C-2	tan ceiling tile	y	None Detected	35% ce 35% fg	30% qu,ca,pe

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
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ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
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bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

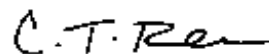
Approved Signatories:



Josh Strange  
Analyst



Jose Matute  
Analyst



Technical Manager  
Tanner Rasmussen



Senior Analyst  
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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9. < 1% Result point counted positive
10. TEM analysis suggested

**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b> <b>Tetra Tech, Inc.</b> 7100 Commercial Ave Suite 4 Billings, Montana 59101	<b>Attn:</b>	<b>Customer Project:</b> MSU Field House <b>Turnaround Time:</b> 5 days	<b>CA Labs Project #:</b> CAL25021000AG  <b>Date:</b> 2/18/2025 <b>Samples Rec'd:</b> 2/11/25 10:30AM <b>Date Of Sampling:</b> 2/7/2025 <b>Purchase Order #:</b>
Phone #	406-248-9161		
Fax #	406-248-9282		

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
13832	FH M5.2A		M5.2A-1	white surfacing	y	None Detected	100% qu,bi	
13832			M5.2A-2	tan ceiling tile	y	None Detected	35% ce 35% fg	30% qu,ca,pe
13833	FH M5.2B		M5.2B-1	white surfacing	y	None Detected	100% qu,bi	
13833			M5.2B-2	tan ceiling tile	y	None Detected	35% ce 35% fg	30% qu,ca,pe
13834	FH M5.2C		M5.2C-1	white surfacing	y	None Detected	100% qu,bi	
13834			M5.2C-2	tan ceiling tile	y	None Detected	35% ce 35% fg	30% qu,ca,pe
13835	FH M6.1A		M6.1A-1	white surfacing	y	None Detected	100% qu,bi	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
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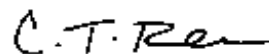
Approved Signatories:



Josh Strange  
Analyst



Jose Matute  
Analyst



Technical Manager  
Tanner Rasmussen

Senior Analyst  
Julio Robles

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**Polarized Light Asbestiform Materials Characterization**

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Phone #	406-248-9161		
Fax #	406-248-9282		

Laboratory Sample ID	Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
13835			M6.1A-2	tan ceiling tile	y	None Detected	100% ce	
13836	FH M6.1B		M6.1B-1	white surfacing	y	None Detected		100% qu,bi
13836			M6.1B-2	tan ceiling tile	y	None Detected	100% ce	
13837	FH M6.1C		M6.1C-1	white surfacing	y	None Detected		100% qu,bi
13837			M6.1C-2	tan ceiling tile	y	None Detected	100% ce	
13838	FH M13.1A		M13.1 A-1	tan bricking	y	None Detected		100% qu,ot
13838			M13.1 A-2	gray mortar	y	None Detected		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
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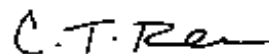
Approved Signatories:



Josh Strange  
Analyst



Jose Matute  
Analyst



Technical Manager  
Tanner Rasmussen

Senior Analyst  
Julio Robles

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**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b> <b>Tetra Tech, Inc.</b> 7100 Commercial Ave Suite 4 Billings, Montana 59101	<b>Attn:</b>	<b>Customer Project:</b> MSU Field House <b>Turnaround Time:</b> 5 days	<b>CA Labs Project #:</b> CAL25021000AG  <b>Date:</b> 2/18/2025 <b>Samples Rec'd:</b> 2/11/25 10:30AM <b>Date Of Sampling:</b> 2/7/2025 <b>Purchase Order #:</b>
Phone #	406-248-9161		
Fax #	406-248-9282		

Laboratory Sample ID	Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
13839	FH M13.1B		M13.1 B-1	tan bricking	y	None Detected	100% qu,ot	
13839			M13.1 B-2	gray mortar	y	None Detected	100% qu,ca	
13840	FH M13.1C		M13.1 C-1	tan bricking	y	None Detected	100% qu,ot	
13840			M13.1 C-2	gray mortar	y	None Detected	100% qu,ca	
13841	FH M13.2A		M13.2 A-1	tan surfaced red and gray bricking	n	None Detected	100% qu,bi,ca,ot	
13841			M13.2 A-2	tan surfaced red mortar	n	None Detected	100% qu,ca	
13842	FH M13.2B		M13.2 B-1	tan surfaced red and gray bricking	n	None Detected	100% qu,bi,ca,ot	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
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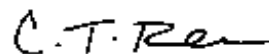
Approved Signatories:



Josh Strange  
Analyst



Jose Matute  
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Technical Manager  
Tanner Rasmussen

Senior Analyst  
Julio Robles

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8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

**Polarized Light Asbestiform Materials Characterization**

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Phone #	406-248-9161		
Fax #	406-248-9282		

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
13842			M13.2 B-2	tan surfaced red mortar	n	None Detected	100% qu,bi,ca	
13843	FH M13.2C		M13.2 C-1	tan surfaced red and gray bricking	n	None Detected	100% qu,bi,ca,ot	
13843			M13.2 C-2	tan surfaced red mortar	n	None Detected	100% qu,bi,ca	
13844	FH M18.1A		M18.1 A-1	gray concrete	y	None Detected	100% qu,ca	
13845	FH M18.1B		M18.1 B-1	gray concrete	y	None Detected	100% qu,ca	
13846	FH M18.1C		M18.1 C-1	gray concrete	y	None Detected	100% qu,ca	
13847	FH M22.1A		M22.1 A-1	tan surfaced red and gray bricking	n	None Detected	100% qu,bi,ca,ot	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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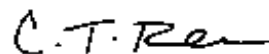
Approved Signatories:



Josh Strange  
Analyst



Jose Matute  
Analyst



Technical Manager  
Tanner Rasmussen

Senior Analyst  
Julio Robles

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**Polarized Light Asbestiform Materials Characterization**

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Phone #	406-248-9161		
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Laboratory Sample ID	Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
13847			M22.1 A-2	tan surfaced red mortar	n	None Detected	100% qu,bi,ca	
13848	FH M22.1B		M22.1 B-1	tan surfaced red and gray bricking	n	None Detected	100% qu,bi,ca,ot	
13848			M22.1 B-2	tan surfaced red mortar	n	None Detected	100% qu,bi,ca	
13849	FH M22.1C		M22.1 C-1	tan surfaced red and gray bricking	n	None Detected	100% qu,bi,ca,ot	
13849			M22.1 C-2	tan surfaced red mortar	n	None Detected	100% qu,bi,ca	
13850	FH M22.2A		M22.2 A-1	red and gray bricking	n	None Detected	100% qu,ca,ot	
13850			M22.2 A-2	red mortar	y	None Detected	100% qu,ca	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
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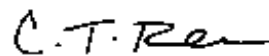
Approved Signatories:



Josh Strange  
Analyst



Jose Matute  
Analyst



Technical Manager  
Tanner Rasmussen

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9. < 1% Result point counted positive
10. TEM analysis suggested

**Polarized Light Asbestiform Materials Characterization**

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Laboratory Sample ID	Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
13851	FH M22.2B	M22.2 B-1		red and gray bricking	n	None Detected	100% qu,ca,ot	
13851		M22.2 B-2		red mortar	y	None Detected	100% qu,ca	
13852	FH M22.2C	M22.2 C-1		red and gray bricking	n	None Detected	100% qu,ca,ot	
13852		M22.2 C-2		red mortar	y	None Detected	100% qu,ca	
13853	FH M22.3A	M22.3 A-1		tan surfaced tan finishing compound	n	None Detected	100% qu,mi,bi,ca	
13853		M22.3 A-2		gray cement/mortar	n	None Detected	100% qu,ca	
13854	FH M22.3B	M22.3 B-1		tan surfaced tan finishing compound	n	None Detected	100% qu,mi,bi,ca	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

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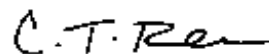
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**Polarized Light Asbestiform Materials Characterization**

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13854			M22.3 B-2	gray cement/mortar	n	None Detected	100% qu,ca	
13855	FH M22.3C		M22.3 C-1	tan surfaced tan finishing compound	n	None Detected	100% qu,mi,bi,ca	
13855			M22.3 C-2	gray cement/mortar	n	None Detected	100% qu,ca	
13856	FH M34.1A		M34.1 A-1	white surfaced tan wooden fragments	n	None Detected	70% ce	30% qu,bi
13857	FH M34.1B		M34.1 B-1	white surfaced tan wooden fragments	n	None Detected	75% ce	25% qu,bi
13858	FH M34.1C		M34.1 C-1	white surfaced tan wooden fragments	n	None Detected	70% ce	30% qu,bi
13859	FH S3.1A		S3.1A- 1	white surfaced white compound	n	None Detected	100% qu,bi,ca	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

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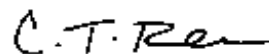
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13859			S3.1A-2	white compound (beneath tape)	y	None Detected	100% qu,ca	
13859			S3.1A-3	white drywall with brown paper	n	None Detected	20% ce	80% qu,gy
13860	FH S3.1B		S3.1B-1	white surfaced white compound	n	None Detected		100% qu,bi,ca
13860			S3.1B-2	white compound (beneath tape)	y	None Detected		100% qu,ca
13860			S3.1B-3	white drywall with brown paper	n	None Detected	20% ce	80% qu,gy
13861	FH S3.1C		S3.1C-1	white surfaced white compound	n	None Detected		100% qu,bi,ca
13861			S3.1C-2	white compound (beneath tape)	y	None Detected		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

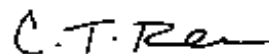
Approved Signatories:



Josh Strange  
Analyst



Jose Matute  
Analyst



Technical Manager  
Tanner Rasmussen



Senior Analyst  
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested



**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b> <b>Tetra Tech, Inc.</b> 7100 Commercial Ave Suite 4 Billings, Montana 59101	<b>Attn:</b>	<b>Customer Project:</b> MSU Field House <b>Turnaround Time:</b> 5 days	<b>CA Labs Project #:</b> CAL25021000AG  <b>Date:</b> 2/18/2025 <b>Samples Rec'd:</b> 2/11/25 10:30AM <b>Date Of Sampling:</b> 2/7/2025 <b>Purchase Order #:</b>
Phone #	406-248-9161		
Fax #	406-248-9282		

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
13861			S3.1C-3	white drywall with brown paper	n	None Detected	20% ce	80% qu,gy
13862	FH S3.1D		S3.1D-1	white surfaced tan compound	n	None Detected		100% qu,bi,ca
13862			S3.1D-2	tan compound (beneath tape)	y	None Detected		100% qu,ca
13862			S3.1D-3	white drywall with brown paper	n	None Detected	20% ce	80% qu,gy
13863	FH S3.1E		S3.1E-1	white surfaced tan compound	n	None Detected		100% qu,bi,ca
13863			S3.1E-2	tan compound (beneath tape)	y	None Detected		100% qu,ca
13863			S3.1E-3	white drywall with brown paper	n	None Detected	20% ce	80% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
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ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

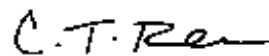
Approved Signatories:



Josh Strange  
Analyst



Jose Matute  
Analyst



Technical Manager  
Tanner Rasmussen

Senior Analyst  
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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8. Favorable scenario for water separation on vermiculite for possible analysis by another method
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10. TEM analysis suggested

**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b> <b>Tetra Tech, Inc.</b> 7100 Commercial Ave Suite 4 Billings, Montana 59101	<b>Attn:</b>	<b>Customer Project:</b> MSU Field House <b>Turnaround Time:</b> 5 days	<b>CA Labs Project #:</b> CAL25021000AG  <b>Date:</b> 2/18/2025 <b>Samples Rec'd:</b> 2/11/25 10:30AM <b>Date Of Sampling:</b> 2/7/2025 <b>Purchase Order #:</b>
Phone #	406-248-9161		
Fax #	406-248-9282		

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
13864	FH S3.1F		S3.1F-1	white surfaced tan compound	n	None Detected		100% qu,bi,ca
13864			S3.1F-2	tan compound (beneath tape)	y	None Detected		100% qu,ca
13864			S3.1F-3	white drywall with brown paper	n	None Detected	20% ce	80% qu,gy
13865	FH S3.1G		S3.1G-1	white surfaced tan compound	n	None Detected		100% qu,bi,ca
13865			S3.1G-2	tan compound (beneath tape)	y	None Detected		100% qu,ca
13865			S3.1G-3	white drywall with brown paper	n	None Detected	22% ce	78% qu,gy
13866	FH S3.2A		S3.2A-1	white surfaced white compound	n	None Detected		100% qu,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
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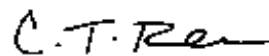
Approved Signatories:



Josh Strange  
Analyst



Jose Matute  
Analyst



Technical Manager  
Tanner Rasmussen

Senior Analyst  
Julio Robles

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7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b> <b>Tetra Tech, Inc.</b> 7100 Commercial Ave Suite 4 Billings, Montana 59101	<b>Attn:</b>	<b>Customer Project:</b> MSU Field House <b>Turnaround Time:</b> 5 days	<b>CA Labs Project #:</b> CAL25021000AG  <b>Date:</b> 2/18/2025 <b>Samples Rec'd:</b> 2/11/25 10:30AM <b>Date Of Sampling:</b> 2/7/2025 <b>Purchase Order #:</b>
Phone #	406-248-9161		
Fax #	406-248-9282		

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
13866			S3.2A-2	white compound (beneath tape)	y	None Detected		100% qu,ca
13867	FH S3.2B		S3.2B-1	white surfaced white compound	n	None Detected		100% qu,bi,ca
13867			S3.2B-2	white compound (beneath tape)	y	None Detected		100% qu,ca
13867			S3.2B-3	white drywall with brown paper	n	None Detected	22% ce	78% qu,gy
13868	FH S3.2C		S3.2C-1	white surfaced white compound	n	None Detected		100% qu,bi,ca
13868			S3.2C-2	white compound (beneath tape)	y	None Detected		100% qu,ca
13868			S3.2C-3	white drywall with brown paper	n	None Detected	22% ce	78% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
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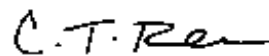
Approved Signatories:



Josh Strange  
Analyst



Jose Matute  
Analyst



Technical Manager  
Tanner Rasmussen

Senior Analyst  
Julio Robles

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5. Not enough sample to analyze

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7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b> <b>Tetra Tech, Inc.</b> 7100 Commercial Ave Suite 4 Billings, Montana 59101	<b>Attn:</b>	<b>Customer Project:</b> MSU Field House <b>Turnaround Time:</b> 5 days	<b>CA Labs Project #:</b> CAL25021000AG  <b>Date:</b> 2/18/2025 <b>Samples Rec'd:</b> 2/11/25 10:30AM <b>Date Of Sampling:</b> 2/7/2025 <b>Purchase Order #:</b>
Phone #	406-248-9161		
Fax #	406-248-9282		

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
13869	FH S3.2D		S3.2D-1	white surfaced white compound	n	None Detected		100% qu,bi,ca
13869			S3.2D-2	white compound (beneath tape)	y	None Detected		100% qu,ca
13869			S3.2D-3	white drywall with brown paper	n	None Detected	22% ce	78% qu,gy
13870	FH S3.2E		S3.2E-1	white surfaced white compound	n	None Detected		100% qu,bi,ca
13870			S3.2E-2	white compound (beneath tape)	y	None Detected		100% qu,ca
13870			S3.2E-3	white drywall with brown paper	n	None Detected	22% ce	78% qu,gy
13871	FH S3.2F		S3.2F-1	white surfaced white compound	n	None Detected		100% qu,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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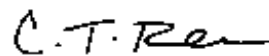
Approved Signatories:



Josh Strange  
Analyst



Jose Matute  
Analyst



Technical Manager  
Tanner Rasmussen

Senior Analyst  
Julio Robles

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9. < 1% Result point counted positive
10. TEM analysis suggested

**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b> <b>Tetra Tech, Inc.</b> 7100 Commercial Ave Suite 4 Billings, Montana 59101	<b>Attn:</b>	<b>Customer Project:</b> MSU Field House <b>Turnaround Time:</b> 5 days	<b>CA Labs Project #:</b> CAL25021000AG  <b>Date:</b> 2/18/2025 <b>Samples Rec'd:</b> 2/11/25 10:30AM <b>Date Of Sampling:</b> 2/7/2025 <b>Purchase Order #:</b>
Phone #	406-248-9161		
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Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
13871			S3.2F-2	white compound (beneath tape)	y	None Detected	100% qu,ca	
13871			S3.2F-3	white drywall with brown paper	n	None Detected	20% ce	80% qu,gy
13872	FH S3.2G		S3.2G-1	white surfaced white compound	n	None Detected		100% qu,bi,ca
13872			S3.2G-2	white compound (beneath tape)	y	None Detected		100% qu,ca
13872			S3.2G-3	white drywall with brown paper	n	None Detected	22% ce	78% qu,gy
13873	FH S3.3A		S3.3A-1	white compound (beneath tape)	y	None Detected		100% qu,ca
13873			S3.3A-2	white drywall with brown paper	n	None Detected	20% ce	80% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
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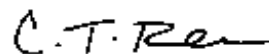
Approved Signatories:



Josh Strange  
Analyst



Jose Matute  
Analyst



Tanner Rasmussen  
Technical Manager

Julio Robles  
Senior Analyst

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**Polarized Light Asbestiform Materials Characterization**

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Phone #	406-248-9161		
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Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
13874	FH S3.3B		S3.3B-1	tan surfacing	y	None Detected		100% qu,bi
13874			S3.3B-2	white compound (beneath tape)	y	None Detected		100% qu,ca
13874			S3.3B-3	white drywall with brown paper	n	None Detected	20% ce	80% qu,gy
13875	FH S3.3C		S3.3C-1	white surfaced white compound	n	None Detected		100% qu,bi,ca
13875			S3.3C-2	white compound (beneath tape)	y	None Detected		100% qu,ca
13875			S3.3C-3	white drywall with brown paper	n	None Detected	20% ce	80% qu,gy
13876	FH S3.3D		S3.3D-1	white surfaced white compound	n	None Detected		100% qu,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

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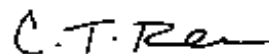
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Josh Strange  
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**Polarized Light Asbestiform Materials Characterization**

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13876			S3.3D-2	white compound (beneath tape)	y	None Detected		100% qu,ca
13876			S3.3D-3	white drywall with brown paper	n	None Detected	20% ce	80% qu,gy
13877	FH S3.3E		S3.3E-1	white surfaced tan compound	n	None Detected		100% qu,bi,ca
13877			S3.3E-2	tan compound (beneath tape)	y	None Detected		100% qu,ca
13877			S3.3E-3	white drywall with brown paper	n	None Detected	20% ce	80% qu,gy
13878	FH S3.3F		S3.3F-1	white surfaced white compound	n	None Detected		100% qu,bi,ca
13878			S3.3F-2	white compound (beneath tape)	y	None Detected		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

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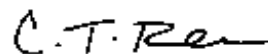
Approved Signatories:



Josh Strange  
Analyst



Jose Matute  
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**Polarized Light Asbestiform Materials Characterization**

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13878			S3.3F-3	white drywall with brown paper	n	None Detected	20% ce	80% qu,gy
13879	FH S3.3G		S3.3G-1	tan surfacing	y	None Detected		100% qu,bi
13879			S3.3G-2	white compound (beneath tape)	y	None Detected		100% qu,ca
13879			S3.3G-3	white drywall with brown paper	n	None Detected	20% ce	80% qu,gy
13880	FH S5.1A		S5.1A-1	white surfaced gray fireproofing	n	None Detected	6% ce 5% fg	89% qu,pe,bi,ca
13881	FH S5.1B		S5.1B-1	white surfaced gray fireproofing	n	None Detected	5% ce 5% fg	90% qu,pe,bi,ca
13882	FH S5.1C		S5.1C-1	white surfaced gray fireproofing	n	None Detected	5% ce 5% fg	90% qu,pe,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

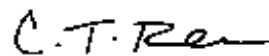
Approved Signatories:



Josh Strange  
Analyst



Jose Matute  
Analyst



Technical Manager  
Tanner Rasmussen

Senior Analyst  
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested



**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b> <b>Tetra Tech, Inc.</b> 7100 Commercial Ave Suite 4 Billings, Montana 59101	<b>Attn:</b>	<b>Customer Project:</b> MSU Field House <b>Turnaround Time:</b> 5 days	<b>CA Labs Project #:</b> CAL25021000AG  <b>Date:</b> 2/18/2025 <b>Samples Rec'd:</b> 2/11/25 10:30AM <b>Date Of Sampling:</b> 2/7/2025 <b>Purchase Order #:</b>
Phone #	406-248-9161		
Fax #	406-248-9282		

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
13883	FH S5.1D		S5.1D-1	white surfaced gray fireproofing	n	<b>None Detected</b>	5% ce 5% fg	90% qu,pe,bi,ca
13884	FH S5.1E		S5.1E-1	white surfaced gray fireproofing	n	<b>None Detected</b>	6% ce 5% fg	89% qu,pe,bi,ca
13885	FH S5.1F		S5.1F-1	white surfaced gray fireproofing	n	<b>None Detected</b>	6% ce 5% fg	89% qu,pe,bi,ca
13886	FH S5.1G		S5.1G-1	white surfaced gray fireproofing	n	<b>None Detected</b>	6% ce 5% fg	89% qu,pe,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
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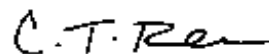
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7100 Commercial Avenue Suite 4  
 Billings, Montana 59101  
 Phone: 406.248.9161 Fax 406.248.9282

**CONTACT INFORMATION**

**COMPANY:** Tetra Tech, Inc. **Phone:** 406.248.9161 *GAL25021000*  
**Primary Contact** Roger W. Herman, Jr. **Phone / Email:** [roger.herman@tetrattech.com](mailto:roger.herman@tetrattech.com) cell - 406.670.4844  
**Additional Contact** Race Contreras **Phone / Email:** race.contreras@tetrattech.com cell - 406.601.0936  
**Sampler Name(s)** Paydn Borland **Sampler Signature(s)** *[Signature]*  
**Date of Inspection:** 2-7-25

**PROJECT INFORMATION**

**Client** MSU **Project Name** Field House  
**Project Location** Bozeman, MT **Project Number**

**PLM INSTRUCTIONS**

- PLM EPA 600/R-93/116  PLM CARB 435 (rock/soil)  TEM CHATFIELD  TEM NOB 198.4  TEM CARB 435 (rock/soil)
- PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 2%)
- Multi-Layered Samples:
  - Analyze and Report All Separable Layers per EPA 600  Only Analyze sepecifically noted layer
- Analyze Until Positive Stop by Material Type as Noted

**TURNAROUND TIME**

- 10 Day  5 Day  3 Day  2 Day  1 Day  Same Day  Rush Results by:

Relinquished By	Date & Time	VIA	Received By	Date & Time
Paydn Borland	2-10-25 0900hrs	FEDEX		

10:30AM

FEB 11 2025

*Andrew Sikes*



**CHAIN OF CUSTODY  
 -BULK ASBESTOS-**

*CAL25021000*

**PROJECT INFORMATION**

Project Name Field House  
 Project Identifier FH

Project Number 117-

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	FH M 3.1	Painted smooth gypsum drywall and paper with associated joint compound	131, 194A, 199S1, 194, 161-172, 173B, 174, 175, 101, 101A, 101B, 102, 104, 106(ceiling and walls), 114, 114J, 120A(ceiling), 120B(ceiling), 120C(ceiling), 188, 136, 138F, 138C, 138D, 190(ceiling),	
A B C	FH M 3.2	Fire taped smooth gypsum drywall and paper with associated joint compound	133, 133A-C, 139-142, 142A, 143, 143A-C, 144-156, 160, 160A,	
A B C	FH M 5.1	2-foot by 4-foot white ceiling panels with pinholes and punchmarks	185, 160, 194A, 161-172, 173B, 174, 126A, 126C, 126E, 188, 138, 138F, 138A, 138C, 138D, 133, 133A-C, 139-142, 142A, 143, 143A-C, 144-156, 160, 160A, 008, 010, 011-014, 005-007, 240, 206, 206A-C, 212, 213, 215-224	
A B C	FH M 5.2	2-foot by 4-foot white ceiling panel in 2-foot by 2-foot pattern with pinholes and fissures	175, 101, 101A, 101B, 102, 104	
A B C	FH M 6.1	12-inch by 12-inch white ceiling tiles with pinholes and punch marks	103	10:30AM
A B C	FH M 13.1	Tan brick and gray mortar	121, 122B, 122D, 126A, 126B, 126G, 138B	FEB 11 2025 <i>Andrew Sikes</i>





**CHAIN OF CUSTODY  
 -BULK ASBESTOS-**

*CAL25021000*

**PROJECT INFORMATION**

Project Name Field House  
 Project Identifier FH

Project Number 117-

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	FH M 13.2	Rough painted brick and gray mortar	015A, 017	
A B C	FH M 18.1	Concrete ceiling	184, 185, 175, 178, 107, 179, 183, 121, 122, 123, 122D, 126B, 138B, 002, 249, 225, 208, 207A, 203, 235, 236, 233, 255, 230, 230A, 252, 227, 251, 226	
A B C	FH M 22.1	Variously painted CMU block and associated gray mortar vertical pattern	120, 184, 194A, 174, 103, 107, 175, 178, 114, 119, 120A, 120B, 120C, 183, 121, 122, 123, 126, 122D, 126A, 126B, 188, 136, 138, 138A, 138B, 189, 190, 249, 243, 209, 210, 225, 208, 207A, 203, 235, 236, 233, 255, 230, 230A, 252, 227, 251, 226, 229, 231, 232, 239, 254, 256, 237, 238	
A B C	FH M 22.2	Painted CMU blocks and associated gray mortar offset pattern	114, 114J, 114I, 114G, 114H, 177, 119	
A B C	FH M 22.3	Painted CMU blocks and associated gray mortar	015A, 009	10:30AM
A B C	FH M 34.1	Tectum ceiling panels	120	FEB 11 2025 <i>Andrew Sikes</i>



**CHAIN OF CUSTODY  
 -BULK ASBESTOS-**

*CAL 25021000*

**PROJECT INFORMATION**

Project Name Field House  
 Project Identifier FH

Project Number 117-

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C D E F G	FH S 3.1	Orange peel textured gypsum drywall	126, 126A-G	
A B C D E F G	FH S 3.2	Light orange peel texture gypsum drywall	133, 133A-C, 139-142, 142A, 143, 143A-C, 144-156, 160, 160A, 017, 008, 009, 010-014, 005-007	
A B C D E F G	FH S 3.3	Light orange peel textured gypsum drywall and paper with associated joint compound	206, 206A-C, 249(walls and ceiling), 243(ceiling), 209, 210, 212, 212, 215-224, 229(ceiling), 231(ceiling), 239, 232, 254, 234(ceiling and walls) 256(ceiling and walls), 237(ceiling and walls), 238(ceiling and walls)	
A B C D E F G	FH S 5.1	Gray spray on fireproofing	Outside door of 109, 114, 114J, 114I, 177, 119, 120A, 120B, 120C, 188, 136, 185, 138, 138F	10:30AM FEB 11 2025 <i>Andrew Sikes</i>

**ATTACHMENT C**  
**Duplicate Summary of ACM**

On February 6 and 7, 2025, Messrs. Paydn Borland and Raistlin Contreras of Tetra Tech, MDEQ Accredited Asbestos Inspectors, collected samples of suspect ACM.

*Paydn Borland*

Inspector MTA-5025 Exp: 01-16-26

*Raistlin Contreras*

Inspector MTA-6279 Exp: 09-11-25

**Duplicate Summary of ACM**

HA Number	Material Description and Location	Percent Asbestos	Material Type	NESHAP Category
FH-T12.1	Vermiculite insulation located in Rooms 107, 108C, 112B, 116A, 116B, 118A, 120, 120A, 120B, 120C, 121, 122B, 122C, 126, 126A, 126B, 126C, 126D, 130B, 134, 174, 175, 178, 179, 183, 184, 194, 194S, 225, 238, 249, 253, and 260-265 <sub>1</sub>	Assumed	TSI	RACM

HA = Homogeneous Area Number, NESHAP = National Emission Standard for Hazardous Air Pollutants, RACM = Regulated Asbestos Containing Material, TSI = Thermal System Insulation, Assumed = Material assumed to be ACM based on historical asbestos content associated with similar materials, and <sub>1</sub> = Hidden materials may be found in inaccessible areas throughout the building.