

Asbestos Survey and Lead-Based Paint Sampling Report

SIUE Health Sciences Building 220

220 University Park Drive

Edwardsville, IL

September 1, 2021

Terracon Project No. 15217051



Prepared for:

HOK Inc

St. Louis, Missouri

Prepared by:

Terracon Consultants, Inc.

St. Louis, Missouri

terracon.com

Terracon

Environmental



Facilities



Geotechnical



Materials



September 1, 2021

HOK Inc
10 South Broadway, Suite 200
St. Louis, Missouri 63102

Attn: Ms. Barb Anderson-Kerlin
(314) 754-4013
Barb.anderson-kerlin@hok.com

Re: Asbestos Survey and Lead-Based Paint Sampling Report
SIUE Health Sciences Building 220
220 University Park Drive
Edwardsville, Illinois
Terracon Project No. 15217051

Dear Ms. Anderson-Kerlin:

Terracon Consultants, Inc. (Terracon) is pleased to present the results of the asbestos survey and lead-based paint sampling conducted at the above referenced site on August 16 through 18, 2021. The services were conducted in accordance with our proposal dated March 3, 2021.

Asbestos was not identified in the samples collected during the August 16 through 18, 2021 survey.

Lead was not identified above the laboratory reporting limits in samples collected during the August 16 through 18, 2021 survey.

Please refer to the attached report for details. We appreciate the opportunity to perform these services for HOK Inc. Please contact the undersigned at (314) 569-9367 if you have questions regarding the information provided in this report.

Sincerely,
Terracon Consultants, Inc.

Shannon Starr

Shannon Starr
Field Scientist

Eric Schatz

Eric Schatz, CIH
Group Manager – Asbestos and
Industrial Hygiene Services



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ASBESTOS SURVEY AND LEAD-BASED PAINT SAMPLING REPORT

SIUE HEALTH SCIENCES BUILDING 220

EDWARDSVILLE, ILLINOIS

Terracon Project No. 15217051
September 1, 2021

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey and lead-based paint sampling of the SIUE Health Sciences Building 220 in preparation for the upcoming renovation or demolition activities of the building. The services were conducted by a State of Illinois licensed asbestos inspector and Illinois Department of Public Health (IDPH) licensed lead risk assessor in accordance with our proposal dated March 3, 2021. The project objectives are based upon information required to communicate for compliance with the following summarized requirements:

- The United States Environmental Protection Agency (USEPA) regulation 40 Code of Federal Regulations (CFR) 61-National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart M-Asbestos prohibits the release of asbestos fibers to the atmosphere during renovation or demolition activities. The asbestos NESHAP requires that potentially regulated ACM (RACM) be identified, classified and quantified prior to planned disturbances or demolition activities.
- The Resource Conservation and Recovery Act (RCRA) and the Toxic Substances Control Act (TSCA) impact some construction and demolition projects with respect to hazardous waste (i.e., solvent/thinner, fuel, stains, unused paint, oil/lubricants, compressed gas cylinders, and unpunctured aerosol cans) and universal waste (i.e., fluorescent lights, high intensity discharge lamps, mercury-containing thermostats, batteries, pesticides). Materials referenced here are referred to as *regulated materials* in the Survey Report.
- The Occupational Safety and Health Administration (OSHA) 29 CFR 1926.1101-Asbestos regulates asbestos exposure during renovation/demolition activities and requires building and facility owners to determine the presence, location and quantity of asbestos containing materials (ACM) and/or presumed ACM (PACM) prior to renovation/demolition activities.
- OSHA 29 CFR 1926.62-Lead applies to all renovation/demolition where an employee may be occupationally exposed to lead. The employer shall communicate information concerning lead hazards and appropriate protective measures to employees.

Accessible building components were surveyed, and homogeneous areas of suspect ACM were visually identified and documented. Although reasonable effort was made to survey accessible

suspect materials, additional suspect but unsampled materials could be located in walls, in voids, or in other concealed areas and in areas not available for review.

1.1 Project Objectives

The objectives of the surveys were to identify the presence, quantity, and location of ACM and location of lead-based paint (LBP) in coatings on building components or substrates present in the building at the time of the field assessment, subject to the stated reporting and sampling limitations. Terracon understands the surveys were requested for the upcoming renovation or demolition activities.

2.0 BUILDING DESCRIPTION

The building is an approximately 18,500 square-foot single story structure and consists of a rubber membrane roof with metal windows and doors on a concrete slab foundation. The floor finishes consist of vinyl floor tile, ceramic floor tile, carpet, and finished concrete. The ceilings consist of metal decking, gypsum, or 2-foot (') x 2' acoustical ceiling tiles. The walls consist of brick, concrete, or gypsum.

3.0 FIELD ACTIVITIES

3.1 Asbestos

The asbestos survey was conducted by Ms. Shannon Starr (License No. 100-19909), a State of Illinois licensed asbestos inspector. A copy of Ms. Starr's inspector license is included in Appendix D. The survey was conducted in accordance with the sample collection protocols established in 40 CFR 763.86 Sampling. A summary of survey activities is provided below.

3.1.1 Visual Assessment

The survey activities began with visual observations of the designated structures to identify homogeneous areas of suspect ACM. A homogeneous area consists of building materials that appear similar throughout in terms of color, texture, and, if known, date of application. Building materials identified as glass, wood, metal or rubber were not considered suspect ACM.

3.1.2 Physical Assessment

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the material. A friable material is defined by the USEPA as a material that can be crumbled, pulverized, or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials. The materials were classified into the three following condition categories:

- *Not damaged* (ND) - material with less than or equal to one percent (1%) damage or deterioration for the subject surface;
- *Damaged* (D) - materials with greater than 1% but less than 10% distributed damage or less than 25% localized damage. Damage is determined when deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or, if applicable, which has delaminated such that its bond to the substrate (adhesion) is inadequate or which for any other reason lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate; flaking, blistering, or crumbling of the ACM surface; water damage; significant or repeated water stains, scrapes, gouges, mars or other signs of physical injury on the ACM; or damage to jacketing or coatings; and
- *Significantly damaged* (SD) - materials where damage impacts at least 10% of a localized subject surface area or if the damage is evenly distributed representing an area of at least 25% of the subject surface area.

3.1.3 Sample Collection

Based on results of the visual observations, bulk samples of suspect ACM were collected in accordance with USEPA sampling protocols. Random samples of suspect materials were collected for each homogeneous area. Bulk samples were collected using wet methods to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker.

Terracon collected 94 bulk samples from 30 homogeneous areas of suspect ACM. A summary of suspect ACM sampled during the survey is included as Appendix A.

3.1.4 Sample Analysis

The bulk samples were submitted under chain of custody (COC) to Moody Labs (Moody), Farmers Branch, Texas, for analysis by polarized light microscopy (PLM) with dispersion staining techniques per the USEPA's *Method for the Determination of Asbestos in Bulk Building Materials* (600/R-93-116). The percentage of asbestos, if present, was determined by microscopic visual estimation. Moody is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP lab code 102056-0).

Refer to Appendix B for the laboratory analytical report.

3.2 Sampling for Lead in Coatings

The LBP sampling was conducted by Mr. Brad Frisch, an IDPH licensed lead risk assessor, with the intent of identifying lead in painted/coated building materials that might be impacted by

upcoming renovation or demolition activities. A summary of LBP sampling activities is provided below.

Terracon collected 12 paint chip samples from unique paint combinations within the building.

3.2.1 Visual Assessment

Survey activities were initiated with visual observation of the interior and/or exterior of the structures to identify accessible homogeneous areas of coated building components. Homogenous coatings were defined as areas of similar coating/painting history, such as color, building component, and location.

3.2.2 Sample Analysis

Paint sampling included visual observations of coated surfaces (i.e., paint, varnish, colored tiles) to identify potential LBP-coated components and to collect bulk samples. Samples were submitted under COC to EMSL for analysis by USEPA SW-846 Methods 3050B *Acid Digestion of Sediments, Sludges, and Soils* and 7000B *Flame Atomic Absorption Spectrophotometry*. EMSL is accredited by the AIHA® Laboratory Accreditation Programs, LLC under the Environmental Lead Laboratory Accreditation Program (ELLAP).

Refer to Appendix C for the laboratory analytical report.

4.0 REGULATORY OVERVIEW

4.1 Asbestos

4.1.1 Federal Asbestos Regulations

The asbestos portion of NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. The asbestos NESHAP regulation also requires the identification and classification of existing ACM according to friability prior to demolition or renovation activity. Friable ACM is a material containing more than 1% asbestos that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. All friable ACM is considered regulated asbestos-containing material (RACM).

The asbestos NESHAP regulation classifies ACM as RACM, Category I nonfriable ACM or Category II nonfriable ACM. RACM includes all friable ACM, along with Category I and Category II nonfriable ACM that have become friable; will be or have been subjected to sanding, grinding, cutting or abrading; or have a high probability of becoming or have become crumbled, pulverized or reduced to powder in the course of renovation or demolition activity. Category I nonfriable ACMs are exclusively asbestos-containing packings, gaskets, resilient floor coverings, resilient

floor covering mastics and asphalt roofing products that contain more than 1% asbestos. Category II nonfriable ACMs are all nonfriable ACMs that are not Category I nonfriable ACM.

The OSHA asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The OSHA standard requires that employee exposure to airborne asbestos be maintained below the permissible exposure limits (PELs) of 0.1 asbestos fiber per cubic centimeter of air (0.1 f/cc) as an 8-hour time-weighted average (8-hr TWA) or 1.0 f/cc as a 30-minute excursion limit. The OSHA standard classifies construction and maintenance activities that could disturb ACM and specifies work practices and precautions that employers must follow when engaging in each class of regulated work.

4.1.2 Illinois Asbestos Regulations

The USEPA has delegated authority to the Illinois Environmental Protection Agency (IEPA) to enforce the asbestos NESHAP. The IEPA Air Pollution Control Program enforces the asbestos NESHAP as adopted by reference at 10 Code of State Regulations (CSR) 10-6.080. For large asbestos removal projects (greater than 160 square feet and/or 260 linear feet) and demolition projects, the owner or operator must provide the IEPA with written notification at least 10 working days prior to the commencement of regulated activities. Notification of friable and nonfriable asbestos abatement project activities ranging in size from three square feet/three linear feet to 160 square feet/260 linear feet that will be conducted in commercial and public buildings (except industrial buildings as defined in 77 Illinois Administrative Code (IAC) 855.220) shall be made to the Illinois Department of Public Health (IDPH) at least two working days before the initiation of abatement project activities.

4.2 Lead-Based Coatings

Lead is regulated by the USEPA and OSHA. USEPA regulates lead use, removal, and disposal and OSHA regulates worker exposure to lead. USEPA defines LBP as paint, varnish, stain, or other applied coating that contains lead equal to or greater than 1.0 milligrams per square centimeter (mg/cm²), 5,000 milligrams per kilogram (mg/kg), or 0.5% by dry weight as determined by laboratory analysis. For the purpose of the OSHA lead standard, lead includes metallic lead, all inorganic lead compounds, and organic lead soaps. The OSHA standard does not define the amount of lead in paint that constitutes lead-based paint.

USEPA regulates disposal of hazardous materials. The USEPA has stated that components removed with intact LBP that is not delaminating from the substrate may be disposed as general demolition debris. If the LBP is stripped from components, or if it is delaminating from the substrate, the waste may be subject to hazardous waste rules [i.e., Toxicity Characteristics Leaching Procedure (TCLP)].

The OSHA lead standard for construction (29 CFR 1926.62) applies to all construction work where an employee may be occupationally exposed to lead. All work related to construction, alteration,

or repair (including painting and decorating) is included. The lead standard applies to any detectable concentration of lead in paint, as even small concentrations of lead can result in unacceptable employee exposures depending upon on the method of removal and other workplace conditions. Under this standard, construction includes, but is not limited to, the following:

- Demolition or salvage of structures where lead or materials containing lead are present;
- Removal or encapsulation of materials containing lead;
- New construction, alteration, repair, or renovation of structures, substrates, or portions containing lead, or materials containing lead;
- Installation of products containing lead;
- Lead contamination/emergency clean-up;
- Transportation, disposal, storage, or containment of lead or materials containing lead on the site or location at which construction activities are performed; and
- Maintenance operations associated with construction activities described above.

Employers must assure that no employee will be exposed to lead at concentrations greater than the PEL of 50 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) as an 8-hr TWA without adequate protection. The OSHA standard also establishes an action level of $30 \mu\text{g}/\text{m}^3$, which if exceeded, triggers certain requirements, including periodic exposure monitoring and medical monitoring.

5.0 FINDINGS

5.1 Asbestos

Asbestos was not identified in the samples collected from the site on August 16 through 18, 2021.

Laboratory analytical reports are provided in Appendix B. Photographs are provided in Appendix E, with homogeneous area locations depicted on the site diagram in Appendix F.

ACMs may be present that have not been identified or sampled. If any suspect ACM is identified prior to, or during, demolition, it must be treated as ACM until sampling can prove otherwise.

5.2 Lead-Based Coatings Survey Findings

Lead was not identified above the laboratory's detection limits in the paint sampled on August 16 through 18, 2021. A photo log for the LBP sampling is included in Appendix E and general sample locations are on the site diagram in Appendix F. Lab reports are included in Appendix C. A summary of suspect painted materials identified and subsequently sampled for lead based content during the survey:

Asbestos Survey and Lead-Based Paint Sampling Report

SIUE Health Sciences Building 220 ■ Edwardsville, Illinois

September 1, 2021 ■ Terracon Project No. 15217051



Lead-Based Paint Chip Samples			
Sample No.	Description	Sample Location	Result (% by weight)
P01	White on metal roof deck	Room 1025	<0.0080
P02	Off-white on duct hanger metal	Room 1042	<0.0080
P03	Green on drywall	Hallway by room 1030	<0.0080
P04	White on drywall	Lobby by room 1030	<0.013
P05	White on duct work	Hallway by room 1009	<0.019
P06	Off-white on drywall	Room 1030	<0.0081
P07	White on metal roof joint	Room 1030	<0.0080
P08	Off-white on metal door frame	Room 1018	<0.020
P09	Maroon on metal door frame	Exterior by room 1057	<0.0080
P10	White on metal I-beam	Hallway by room 1044	<0.0080
P11	White on drywall	Room 1180	<0.0080
P12	White on metal I-beam	Room 1180	<0.0080

6.0 GENERAL COMMENTS

These services were conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions, and recommendations expressed in this report are based on conditions observed during our survey. The information contained in this report is relevant to the date on which this survey was performed and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by HOK Inc for specific application to the project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories, or other third parties supplying information that may have been used in the preparation of this report. No warranty, express or implied is made.

APPENDIX A

Asbestos Survey Sample Locations SIUE Health Sciences Building 220 Edwardsville, Illinois

Asbestos Survey Sample Location Summary by Homogeneous Area (HA)

HA	Sample No.	Material Description	Sample Location	Lab Results
01	01-MG7-01	Green carpet adhesive	Room 1031	None Detected
	01-MG7-02		Copy room	None Detected
	01-MG7-03		Hallway by room 1023	None Detected
02	02-MG3-04	4" maroon cove base and mastic	Lobby	None Detected
	02-MG3-05		Student learning center (1080)	None Detected
	02-MG3-06		Student learning center (1080)	None Detected
03	03-MG3-07	4" brown cove base and mastic	Room 1030	None Detected
	03-MG3-08		Room 1040	None Detected
	03-MG3-09		Room 1044	None Detected
04	04-CT3-10	2' x 2' rough textured ceiling tile	Room 1034	None Detected
	04-CT3-11		Hallway by waiting area	None Detected
	04-CT3-12		Hallway by room 1021	None Detected
05	05-FT2-13	12" x 12" white w/black dots floor tile	Hallway	None Detected
	05-FT2-14		Room 1046	None Detected
	05-FT2-15		Room 1042	None Detected
06	06-CT3-16	2' x 2' pinhole ceiling tile	Room 1046	None Detected
	06-CT3-17		Room 1044	None Detected
	06-CT3-18		Room 1042	None Detected
07	07-FT5-19	Grey w/ specks floor tile	Lobby	None Detected
	07-FT5-20		Lobby	None Detected
	07-FT5-21		Lobby	None Detected
08	08-MG3-22	4" grey cove base and mastic	Front entry	None Detected
	08-MG3-23		Back entry	None Detected

Asbestos Survey and Lead-Based Paint Sampling Report

SIUE Health Sciences Building 220 ■ Edwardsville, Illinois

September 1, 2021 ■ Terracon Project No. 15217051



HA	Sample No.	Material Description	Sample Location	Lab Results
	08-MG3-24		Back entry	None Detected
09	09-FT2-25	12" x 12" light grey w/ specks floor tile	By drinking fountain	None Detected
	09-FT2-26		By drinking fountain	None Detected
	09-FT2-27		By drinking fountain	None Detected
10	10-MA3/MA4-28	2" x 2" tan ceramic floor tile	Women's restroom	None Detected
	10-MA3/MA4-29		Women's restroom	None Detected
	10-MA3/MA4-30		Women's restroom	None Detected
11	11-MA3/MA4-31	2" x 2" yellow ceramic wall tile	Women's restroom	None Detected
	11-MA3/MA4-32		Women's restroom	None Detected
	11-MA3/MA4-33		Women's restroom	None Detected
12	12-MG8-34	Fiber reinforced panel adhesive	Chemical storage room	None Detected
	12-MG8-35		Chemical storage room	None Detected
	12-MG8-36		Chemical storage room	None Detected
13	13-MG3-37	6" black cove base and mastic	Roof hatch closet	None Detected
	13-MG3-38		Cleaning closet	None Detected
	13-MG3-39		Cleaning closet	None Detected
14	14-MG5-40	White pipe end mastic	Mechanical room	None Detected
	14-MG5-41		Mechanical room	None Detected
	14-MG5-42		Mechanical room	None Detected
15	15-MS3-43	Black lab table tops	Room 1046	None Detected
	15-MS3-44		Room 1044	None Detected
	15-MS3-45		Room 1042	None Detected
16	16-SC7-46	Grey duct sealant	Hallway by room 1024	None Detected
	16-SC7-47		Hallway by room 1024	None Detected
	16-SC7-48		Lobby	None Detected
17	17-WB1-49	Drywall and joint compound	Hallway by room 1024	None Detected
	17-WB1-50		Lobby	None Detected
	17-WB1-51		Room 1026	None Detected
	17-WB1-52		Hallway	None Detected
	17-WB1-53		Room 1011	None Detected
	17-WB1-54		Copy room	None Detected
	17-WB1-55		Room 1037	None Detected
18	18-MG5-56	Mastic under rubber floor	Room 1085	None Detected
	18-MG5-57		Room 1085	None Detected

Asbestos Survey and Lead-Based Paint Sampling Report

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September 1, 2021 ■ Terracon Project No. 15217051



HA	Sample No.	Material Description	Sample Location	Lab Results
	18-MG5-58		Room 1085	None Detected
19	19-MA4-59	Brick grout	Exterior	None Detected
	19-MA4-60		Exterior	None Detected
	19-MA4-61		Exterior	None Detected
	19-MA4-61		Exterior	None Detected
20	20-MA6-62	Stucco	Exterior (back entrance)	None Detected
	20-MA6-63		Exterior (back entrance)	None Detected
	20-MA6-64		Exterior (back entrance)	None Detected
21	21-CA1-65	White window caulk	Exterior windows	None Detected
	21-CA1-66		Exterior windows	None Detected
	21-CA1-67		Exterior windows	None Detected
22	22-CA2-68	White door caulk	Exterior doors	None Detected
	22-CA2-69		Exterior doors	None Detected
	22-CA2-70		Exterior doors	None Detected
23	23-CA1-71	Black window caulk	Exterior front windows	None Detected
	23-CA1-72		Exterior front windows	None Detected
	23-CA1-73		Exterior front windows	None Detected
24	24-MS5-74	Black vapor barrier	Behind exterior wall panels	None Detected
	24-MS5-75		Behind exterior wall panels	None Detected
	24-MS5-76		Behind exterior wall panels	None Detected
25	25-CP5-77	Cement board panels	Front exterior	None Detected
	25-CP5-78		Front exterior	None Detected
	25-CP5-79		Front exterior	None Detected
26	26-CT3-80	2' x 2' white ceiling tile	Chemical storage room	None Detected
	26-CT3-81		Chemical storage room	None Detected
	26-CT3-82		Chemical storage room	None Detected
27	27-RF3-83	Rolled shingles	Roof	None Detected
	27-RF3-84		Roof	None Detected
	27-RF3-85		Roof	None Detected
28	28-RF6-86	Black membrane	Addition roof	None Detected
	28-RF6-87		Addition roof	None Detected
	28-RF6-88		Addition roof	None Detected
29	29-RF1-89	Black tar w/ silver paint	Around vents on roof	None Detected
	29-RF1-90		Around vents on roof	None Detected
	29-RF1-91		Around vents on roof	None Detected

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HA	Sample No.	Material Description	Sample Location	Lab Results
30	30-WB1-92	Drywall and joint compound	Student learning center (1080)	None Detected
	30-WB1-93		Student learning center (1080)	None Detected
	30-WB1-94		Student learning center (1080)	None Detected

APPENDIX B

ASBESTOS LABORATORY ANALYTICAL RESULTS



PLM Summary Report

2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

NVLAP Lab Code 102056-0

TDSHS License No. 30-0084

Client : Terracon - St. Louis

Lab Job No. : 21B-11060

Project : SIUE Building 220

Report Date : 08/27/2021

Project # : 15217051

Sample Date : 08/16/2021

Identification : Asbestos, Bulk Sample Analysis

Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS)
EPA Method 600 / R-93 / 116

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On 8/20/2021, ninety four (94) bulk material samples were submitted by Shannon Starr of Terracon - St. Louis for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
01-MG7-01	Carpet Adhesive (Green), Room 1031	None Detected - Adhesive
01-MG7-02	Carpet Adhesive (Green), Copy Room	None Detected - Adhesive
01-MG7-03	Carpet Adhesive (Green), Hallway by Room 1023	None Detected - Adhesive
02-MG3-04	4" Cove Base (Maroon) and Mastic, Lobby	None Detected - Cove Base None Detected - Yellow Mastic
02-MG3-05	4" Cove Base (Maroon) and Mastic, Student Learning Center 1080	None Detected - Cove Base None Detected - Yellow Mastic
02-MG3-06	4" Cove Base (Maroon) and Mastic, Student Learning Center 1080	None Detected - Cove Base None Detected - Yellow Mastic
03-MG3-07	4" Cove Base (Brown) and Mastic, Room 1030	None Detected - Cove Base None Detected - Yellow Mastic
03-MG3-08	4" Cove Base (Brown) and Mastic, Room 1040	None Detected - Cove Base None Detected - Yellow Mastic
03-MG3-09	4" Cove Base (Brown) and Mastic, Room 1044	None Detected - Cove Base None Detected - Yellow Mastic
04-CT3-10	2' x 2' Ceiling Tile (Rough Textured), Room 1034	None Detected - Acoustic Tile
04-CT3-11	2' x 2' Ceiling Tile (Rough Textured), Hallway by Waiting Area	None Detected - Acoustic Tile
04-CT3-12	2' x 2' Ceiling Tile (Rough Textured), Hallway by Room 1021	None Detected - Acoustic Tile
05-FT2-13	12" x 12" Floor Tile (White with Black Dots), Hallway	None Detected - Floor Tile None Detected - Yellow Mastic
05-FT2-14	12" x 12" Floor Tile (White with Black Dots), Room 1046	None Detected - Floor Tile None Detected - Yellow Mastic
05-FT2-15	12" x 12" Floor Tile (White with Black Dots), Room 1042	None Detected - Floor Tile None Detected - Yellow Mastic
06-CT3-16	2' x 2' Ceiling Tile (Pinhole), Room 1046	None Detected - Acoustic Tile



PLM Summary Report

NVLAP Lab Code 102056-0

TDSHS License No. 30-0084

2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

Client : Terracon - St. Louis

Lab Job No. : 21B-11060

Project : SIUE Building 220

Report Date : 08/27/2021

Project # : 15217051

Sample Date : 08/16/2021

Identification : Asbestos, Bulk Sample Analysis

Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS)
EPA Method 600 / R-93 / 116

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On 8/20/2021, ninety four (94) bulk material samples were submitted by Shannon Starr of Terracon - St. Louis for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
06-CT3-17	2' x 2' Ceiling Tile (Pinhole), Room 1044	None Detected - Acoustic Tile
06-CT3-18	2' x 2' Ceiling Tile (Pinhole), Room 1042	None Detected - Acoustic Tile
07-FT5-19	Floor Tile (Grey with Specks), Lobby	None Detected - Flooring None Detected - Tan Mastic None Detected - Leveling Compound
07-FT5-20	Floor Tile (Grey with Specks), Lobby	None Detected - Flooring None Detected - Tan Mastic None Detected - Leveling Compound
07-FT5-21	Floor Tile (Grey with Specks), Lobby	None Detected - Flooring None Detected - Tan Mastic None Detected - Leveling Compound
08-MG3-23	4" Cove Base (Grey) and Mastic, Front Entry	None Detected - Cove Base None Detected - Yellow Mastic
08-MG3-24	4" Cove Base (Grey) and Mastic, Back Entry	None Detected - Cove Base None Detected - Yellow Mastic
08-MG3-25	4" Cove Base (Grey) and Mastic, Back Entry	None Detected - Cove Base None Detected - Yellow Mastic
09-FT2-25	12" x 12" Floor Tile (Light Grey with Specks), By Drink Fountains	None Detected - Floor Tile No Mastic
09-FT2-26	12" x 12" Floor Tile (Light Grey with Specks), By Drink Fountains	None Detected - Floor Tile None Detected - Tan Mastic
09-FT2-27	12" x 12" Floor Tile (Light Grey with Specks), By Drink Fountains	None Detected - Floor Tile None Detected - Tan Mastic
10-MA3 / MA4-28	2' x 2' Ceramic Floor Tile (Tan), Women's Restroom	None Detected - Ceramic Tile None Detected - Grout
10-MA3 / MA4-29	2' x 2' Ceramic Floor Tile (Tan), Women's Restroom	No Ceramic Tile None Detected - Grout
10-MA3 / MA4-30	2' x 2' Ceramic Floor Tile (Tan), Women's Restroom	No Ceramic Tile None Detected - Grout



PLM Summary Report

NVLAP Lab Code 102056-0

TDSHS License No. 30-0084

2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

Client :	Terracon - St. Louis	Lab Job No. : 21B-11060
Project :	SIUE Building 220	Report Date : 08/27/2021
Project # :	15217051	Sample Date : 08/16/2021
Identification :	Asbestos, Bulk Sample Analysis	
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116	

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On 8/20/2021, ninety four (94) bulk material samples were submitted by Shannon Starr of Terracon - St. Louis for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
11-MA3 / MA4-31	2" x 2" Ceramic Wall Tile (Yellow), Women's Restroom	No Ceramic Tile None Detected - Grout None Detected - Tan Mastic
11-MA3 / MA4-32	2" x 2" Ceramic Wall Tile (Yellow), Women's Restroom	No Ceramic Tile None Detected - Grout
11-MA3 / MA4-33	2" x 2" Ceramic Wall Tile (Yellow), Women's Restroom	No Ceramic Tile None Detected - Grout None Detected - Tan Mastic
12-MG8-34	Fiber Reinforced Panel Adhesive, Chemical Storage Room	None Detected - Fiberglass Panel None Detected - Yellow Mastic
12-MG8-35	Fiber Reinforced Panel Adhesive, Chemical Storage Room	None Detected - Fiberglass Panel None Detected - Yellow Mastic
12-MG8-36	Fiber Reinforced Panel Adhesive, Chemical Storage Room	None Detected - Fiberglass Panel None Detected - Yellow Mastic
13-MG3-37	6" Cove Base (Black) and Mastic, Roof Hatch Closet	None Detected - Cove Base None Detected - Tan Mastic
13-MG3-38	6" Cove Base (Black) and Mastic, Cleaning Closet	None Detected - Cove Base None Detected - Tan Mastic
13-MG3-39	6" Cove Base (Black) and Mastic, Cleaning Closet	None Detected - Cove Base None Detected - Tan Mastic
14-MG5-40	Pipe (White) and Mastic, Mechanical Room	None Detected - Thermal Insulation None Detected - White Mastic
14-MG5-41	Pipe (White) and Mastic, Mechanical Room	None Detected - Thermal Insulation None Detected - White Mastic
14-MG5-42	Pipe (White) and Mastic, Mechanical Room	None Detected - Thermal Insulation None Detected - White Mastic
15-MS3-43	Lab Table Tops (Black), Room 1046	None Detected - Lab Table Top
15-MS3-44	Lab Table Tops (Black), Room 1044	None Detected - Lab Table Top



PLM Summary Report

NVLAP Lab Code 102056-0

TDSHS License No. 30-0084

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client : Terracon - St. Louis

Lab Job No. : 21B-11060

Project : SIUE Building 220

Report Date : 08/27/2021

Project # : 15217051

Sample Date : 08/16/2021

Identification : Asbestos, Bulk Sample Analysis

Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS)
EPA Method 600 / R-93 / 116

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On 8/20/2021, ninety four (94) bulk material samples were submitted by Shannon Starr of Terracon - St. Louis for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
15-MS3-45	Lab Table Tops (Black), Room 1042	None Detected - Lab Table Top
16-SC7-46	Duct Sealant (Grey), Hallway by Room 1024	None Detected - Sealant
16-SC7-47	Duct Sealant (Grey), Hallway by Room 1024	None Detected - Sealant
16-SC7-48	Duct Sealant (Grey), Lobby	None Detected - Sealant
17-WB1-49	Drywall and Joint Compound, Hallway by Room 1024	None Detected - Drywall Material None Detected - Joint Compound
17-WB1-50	Drywall and Joint Compound, Lobby	None Detected - Drywall Material None Detected - Joint Compound
17-WB1-51	Drywall and Joint Compound, Room 1026	None Detected - Drywall Material None Detected - Joint Compound
17-WB1-52	Drywall and Joint Compound, Hallway	None Detected - Drywall Material None Detected - Joint Compound
17-WB1-53	Drywall and Joint Compound, Room 1011	None Detected - Drywall Material None Detected - Joint Compound
17-WB1-54	Drywall and Joint Compound, Copy Room	None Detected - Drywall Material None Detected - Joint Compound
17-WB1-55	Drywall and Joint Compound, Room 1037	None Detected - Drywall Material None Detected - Joint Compound
18-MG5-56	Mastic under Rubber Floor, Room 1085	None Detected - Flooring None Detected - Tan Mastic
18-MG5-57	Mastic under Rubber Floor, Room 1085	None Detected - Flooring None Detected - Tan Mastic
18-MG5-58	Mastic under Rubber Floor, Room 1085	None Detected - Flooring None Detected - Tan Mastic
19-MA4-59	Brick Grout, Exterior	None Detected - Grout
19-MA4-60	Brick Grout, Exterior	None Detected - Grout



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Client : Terracon - St. Louis

Lab Job No. : 21B-11060

Project : SIUE Building 220

Report Date : 08/27/2021

Project # : 15217051

Sample Date : 08/16/2021

Identification : Asbestos, Bulk Sample Analysis

Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS)
EPA Method 600 / R-93 / 116

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On 8/20/2021, ninety four (94) bulk material samples were submitted by Shannon Starr of Terracon - St. Louis for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
19-MA4-61	Brick Grout, Exterior	None Detected - Grout
20-MA6-62	Stucco, Exterior, Back Entrance	None Detected - Plaster None Detected - Stucco
20-MA6-63	Stucco, Exterior, Back Entrance	None Detected - Plaster None Detected - Stucco
20-MA6-64	Stucco, Exterior, Back Entrance	None Detected - Plaster None Detected - Stucco
21-CA1-65	Window Caulk (White), Exterior Windows	None Detected - Caulking
21-CA1-66	Window Caulk (White), Exterior Windows	None Detected - Caulking
21-CA1-67	Window Caulk (White), Exterior Windows	None Detected - Caulking
22-CA2-68	Door Caulk (White), Exterior Doors	None Detected - Caulking
22-CA2-69	Door Caulk (White), Exterior Doors	None Detected - Caulking
22-CA2-70	Door Caulk (White), Exterior Doors	None Detected - Caulking
23-CA1-71	Window Caulk (Black), Exterior Front Windows	None Detected - Caulking
23-CA1-72	Window Caulk (Black), Exterior Front Windows	None Detected - Caulking
23-CA1-73	Window Caulk (Black), Exterior Front Windows	None Detected - Caulking
24-MS5-74	Vapor Barrier (Black), Behind Exterior Wall Panels	None Detected - Vapor Barrier
24-MS5-75	Vapor Barrier (Black), Behind Exterior Wall Panels	None Detected - Vapor Barrier
24-MS5-76	Vapor Barrier (Black), Behind Exterior Wall Panels	None Detected - Vapor Barrier
25-CP5-77	Cement Board Panels, Front Exterior	None Detected - Board Panel
25-CP5-78	Cement Board Panels, Front Exterior	None Detected - Board Panel
25-CP5-79	Cement Board Panels, Front Exterior	None Detected - Board Panel
26-CT3-80	2' x 2' Ceiling Tile (White), Chemical Storage Room	None Detected - Acoustic Tile



PLM Summary Report

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Client : Terracon - St. Louis

Lab Job No. : 21B-11060

Project : SIUE Building 220

Report Date : 08/27/2021

Project # : 15217051

Sample Date : 08/16/2021

Identification : Asbestos, Bulk Sample Analysis

Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS)
EPA Method 600 / R-93 / 116

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On 8/20/2021, ninety four (94) bulk material samples were submitted by Shannon Starr of Terracon - St. Louis for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
26-CT3-81	2' x 2' Ceiling Tile (White), Chemical Storage Room	None Detected - Acoustic Tile
26-CT3-82	2' x 2' Ceiling Tile (White), Chemical Storage Room	None Detected - Acoustic Tile
27-RF3-83	Rolled Shingles, Roof	None Detected - Roof Membranes None Detected - Roofing Felts None Detected - Roofing Tars None Detected - Fiber Board None Detected - Felt Facing None Detected - Foam Insulation
27-RF3-84	Rolled Shingles, Roof	None Detected - Roofing Felts None Detected - Roofing Tars None Detected - Fiber Board None Detected - Felt Facing None Detected - Foam Insulation
27-RF3-85	Rolled Shingles, Roof	None Detected - Roof Membranes None Detected - Roofing Felts None Detected - Roofing Tars None Detected - Fiber Board None Detected - Felt Facing None Detected - Foam Insulation
28-RF6-86	Membrane (Black), Addition Roof	None Detected - Rubber Membrane None Detected - Roofing Felt None Detected - Foam Insulation None Detected - Glass Tape None Detected - Decking Material
28-RF6-87	Membrane (Black), Addition Roof	None Detected - Rubber Membrane None Detected - Roofing Felt None Detected - Foam Insulation None Detected - Glass Tape None Detected - Decking Material



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Client : Terracon - St. Louis

Lab Job No. : 21B-11060

Project : SIUE Building 220

Report Date : 08/27/2021

Project # : 15217051

Sample Date : 08/16/2021

Identification : Asbestos, Bulk Sample Analysis

Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS)
EPA Method 600 / R-93 / 116

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On 8/20/2021, ninety four (94) bulk material samples were submitted by Shannon Starr of Terracon - St. Louis for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
28-RF6-88	Membrane (Black), Addition Roof	None Detected - Rubber Membrane None Detected - Glass Tape None Detected - Decking Material None Detected - Roofing Felt None Detected - Foam Insulation
29-RF1-89	Tar (Black) with Paint (Silver), Around Vents on Roof	None Detected - Silver Paint None Detected - Tar
29-RF1-90	Tar (Black) with Paint (Silver), Around Vents on Roof	None Detected - Silver Paint None Detected - Tar
29-RF1-91	Tar (Black) with Paint (Silver), Around Vents on Roof	None Detected - Silver Paint None Detected - Tar
30-WB1-92	Drywall and Joint Compound, Student Learning Center 1080	None Detected - Drywall Material None Detected - Joint Compound
30-WB1-93	Drywall and Joint Compound, Student Learning Center 1080	None Detected - Drywall Material None Detected - Joint Compound
30-WB1-94	Drywall and Joint Compound, Student Learning Center 1080	None Detected - Drywall Material None Detected - Joint Compound

These samples were analyzed by layers. Quantification, unless otherwise noted, is performed by calibrated visual estimate. The test report shall not be reproduced except in full without written approval of the laboratory. The results relate only to the items tested. These test results do not imply endorsement by NVLAP or any agency of the U.S. Government. Accredited by the National Voluntary Laboratory Accreditation Program for Bulk Asbestos Fiber Analysis under Lab Code 102056-0.



Analyst(s): Gabriela Olarte, Tommie Smith

Lab Manager : Heather Lopez

Approved Signatory : _____

Lab Director : Bruce Crabb

Approved Signatory : _____

Thank you for choosing Moody Labs

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2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab Code 102056-0

TDSHS License No. 30-0084

Client : Terracon - St. Louis

Project : SIUE Building 220

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
01-MG7-01	Adhesive (Green)	100%	Glue Binders	100%	08/27	GO
01-MG7-02	Adhesive (Green)	100%	Glue Binders	100%	08/27	GO
01-MG7-03	Adhesive (Green)	100%	Glue Binders	100%	08/27	GO
02-MG3-04	Cove Base (Maroon)	95%	Calcite / Vinyl Binders	100%	08/27	GO
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
02-MG3-05	Cove Base (Maroon)	96%	Calcite / Vinyl Binders	100%	08/27	GO
	Yellow Mastic (Yellow)	4%	Glue Binders	100%		
02-MG3-06	Cove Base (Maroon)	94%	Calcite / Vinyl Binders	100%	08/27	GO
	Yellow Mastic (Yellow)	6%	Glue Binders	100%		
03-MG3-07	Cove Base (Black)	97%	Calcite / Vinyl Binders	100%	08/27	GO
	Yellow Mastic (Yellow)	3%	Calcite	40%		
			Glue Binders	60%		
03-MG3-08	Cove Base (Black)	98%	Calcite / Vinyl Binders	100%	08/27	GO
	Yellow Mastic (Yellow)	2%	Calcite	40%		
			Glue Binders	60%		
03-MG3-09	Cove Base (Black)	97%	Calcite / Vinyl Binders	100%	08/27	GO
	Yellow Mastic (Yellow)	3%	Calcite	40%		
			Glue Binders	60%		
04-CT3-10	Acoustic Tile (Light Grey)	100%	Mineral Wool Fibers	45%	08/27	GO
			Cellulose Fibers	35%		
			Perlite	20%		
04-CT3-11	Acoustic Tile (Light Grey)	100%	Mineral Wool Fibers	45%	08/27	GO
			Cellulose Fibers	35%		
			Perlite	20%		
04-CT3-12	Acoustic Tile (Light Grey)	100%	Mineral Wool Fibers	45%	08/27	GO
			Cellulose Fibers	35%		
			Perlite	20%		

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2051 Valley View Lane

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PLM Detail Report
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NVLAP Lab Code 102056-0

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Client : Terracon - St. Louis

Project : SIUE Building 220

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
05-FT2-13	Floor Tile (Light Grey)	98%	Calcite / Vinyl Binders	100%	08/27	GO
	Yellow Mastic (Yellow)	2%	Glue Binders	100%		
05-FT2-14	Floor Tile (Light Grey)	98%	Calcite / Vinyl Binders	100%	08/27	GO
	Yellow Mastic (Yellow)	2%	Glue Binders	100%		
05-FT2-15	Floor Tile (Light Grey)	97%	Calcite / Vinyl Binders	100%	08/27	GO
	Yellow Mastic (Yellow)	3%	Glue Binders	100%		
06-CT3-16	Acoustic Tile (Off-White)	100%	Mineral Wool Fibers	45%	08/27	GO
			Cellulose Fibers	35%		
			Perlite	20%		
06-CT3-17	Acoustic Tile (Off-White)	100%	Mineral Wool Fibers	45%	08/27	GO
			Cellulose Fibers	35%		
			Perlite	20%		
06-CT3-18	Acoustic Tile (Off-White)	100%	Mineral Wool Fibers	45%	08/27	GO
			Cellulose Fibers	35%		
			Perlite	20%		
07-FT5-19	Flooring (Grey)	80%	Vinyl Binders	100%	08/27	GO
	Tan Mastic (Tan)	2%	Calcite	40%		
			Glue Binders	60%		
	Leveling Compound (Grey)	18%	Cellulose Fibers	5%		
			Calcite / Binders	95%		
07-FT5-20	Flooring (Grey)	55%	Vinyl Binders	100%	08/27	GO
	Tan Mastic (Tan)	2%	Calcite	40%		
			Glue Binders	60%		
	Leveling Compound (Grey)	43%	Cellulose Fibers	5%		
			Calcite / Binders	95%		

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PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab Code 102056-0

TDSHS License No. 30-0084

Client : Terracon - St. Louis

Project : SIUE Building 220

Project # : 15217051

Lab Job No. : 21B-11060

Report Date : 08/27/2021

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
07-FT5-21	Flooring (Grey)	48%	Vinyl Binders	100%	08/27	GO
	Tan Mastic (Tan)	2%	Calcite	40%		
			Glue Binders	60%		
	Leveling Compound (Grey)	50%	Cellulose Fibers	5%		
			Calcite / Binders	95%		
08-MG3-23	Cove Base (Grey)	96%	Calcite / Vinyl Binders	100%	08/27	GO
	Yellow Mastic (Yellow)	4%	Calcite	40%		
			Glue Binders	60%		
08-MG3-24	Cove Base (Grey)	96%	Calcite / Vinyl Binders	100%	08/27	GO
	Yellow Mastic (Yellow)	4%	Calcite	40%		
			Glue Binders	60%		
08-MG3-25	Cove Base (Grey)	99%	Calcite / Vinyl Binders	100%	08/27	GO
	Yellow Mastic (Yellow)	1%	Calcite	40%		
			Glue Binders	60%		
09-FT2-25	Floor Tile (Grey)	100%	Calcite / Vinyl Binders	100%	08/27	GO
	No Mastic					
09-FT2-26	Floor Tile (Grey)	96%	Calcite / Vinyl Binders	100%	08/27	GO
	Tan Mastic (Tan)	4%	Glue Binders	100%		
09-FT2-27	Floor Tile (Grey)	95%	Calcite / Vinyl Binders	100%	08/27	GO
	Tan Mastic (Tan)	5%	Glue Binders	100%		
10-MA3 / MA4-28	Ceramic Tile (Tan)	5%	Sintered Clays	100%	08/27	GO
	Grout (Brown)	95%	Aggregate	65%		
			Cement Binders	35%		

Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report

Supplement to PLM Summary Report

NVLAP Lab Code 102056-0

TDSHS License No. 30-0084

Client : Terracon - St. Louis

Project : SIUE Building 220

Project # : 15217051

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
10-MA3 / MA4-29	No Ceramic Tile				08/27	GO
	Grout (Brown)	100%	Aggregate	65%		
			Cement Binders	35%		
10-MA3 / MA4-30	No Ceramic Tile				08/27	GO
	Grout (Brown)	100%	Aggregate	65%		
			Cement Binders	35%		
11-MA3 / MA4-31	No Ceramic Tile				08/27	GO
	Grout (Tan)	95%	Aggregate	65%		
			Cement Binders	35%		
	Tan Mastic (Tan)	5%	Calcite	40%		
			Glue Binders	60%		
11-MA3 / MA4-32	No Ceramic Tile				08/27	GO
	Grout (Tan)	100%	Aggregate	65%		
			Cement Binders	35%		

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PLM Detail Report
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Client : Terracon - St. Louis

Project : SIUE Building 220

Project # : 15217051

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
11-MA3 / MA4-33	No Ceramic Tile				08/27	GO
	Grout (Tan)	98%	Aggregate	65%		
			Cement Binders	35%		
	Tan Mastic (Tan)	2%	Calcite	40%		
			Glue Binders	60%		
12-MG8-34	Fiberglass Panel (White)	93%	Glass Wool Fibers	60%	08/27	GO
			Resin Binders	40%		
	Yellow Mastic (Yellow)	7%	Calcite	40%		
			Glue Binders	60%		
12-MG8-35	Fiberglass Panel (White)	94%	Glass Wool Fibers	60%	08/27	GO
			Resin Binders	40%		
	Yellow Mastic (Yellow)	6%	Calcite	40%		
			Glue Binders	60%		
12-MG8-36	Fiberglass Panel (White)	95%	Glass Wool Fibers	60%	08/27	GO
			Resin Binders	40%		
	Yellow Mastic (Yellow)	5%	Calcite	40%		
			Glue Binders	60%		
13-MG3-37	Cove Base (Black)	96%	Calcite / Vinyl Binders	100%	08/27	GO
	Tan Mastic (Tan)	4%	Calcite	40%		
			Glue Binders	60%		
13-MG3-38	Cove Base (Black)	96%	Calcite / Vinyl Binders	100%	08/27	GO
	Tan Mastic (Tan)	4%	Calcite	40%		
			Glue Binders	60%		
13-MG3-39	Cove Base (Black)	95%	Calcite / Vinyl Binders	100%	08/27	GO
	Tan Mastic (Tan)	5%	Calcite	40%		
			Glue Binders	60%		

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PLM Detail Report
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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
14-MG5-40	Thermal Insulation (Yellow)	60%	Mineral Wool Fibers	95%	08/27	TS
			Resin Binders	5%		
	White Mastic (White)	40%	Binders / Fillers	100%		
14-MG5-41	Thermal Insulation (Yellow)	60%	Mineral Wool Fibers	95%	08/27	TS
			Resin Binders	5%		
	White Mastic (White)	40%	Binders / Fillers	100%		
14-MG5-42	Thermal Insulation (Yellow)	60%	Mineral Wool Fibers	95%	08/27	TS
			Resin Binders	5%		
	White Mastic (White)	40%	Binders / Fillers	100%		
15-MS3-43	Lab Table Top (Black)	100%	Sintered Clays	100%	08/27	TS
15-MS3-44	Lab Table Top (Black)	100%	Sintered Clays	100%	08/27	TS
15-MS3-45	Lab Table Top (Black)	100%	Sintered Clays	100%	08/27	TS
16-SC7-46	Sealant (Grey)	100%	Binders / Fillers	100%	08/27	TS
16-SC7-47	Sealant (Grey)	100%	Binders / Fillers	100%	08/27	TS
16-SC7-48	Sealant (Grey)	100%	Binders / Fillers	100%	08/27	TS
17-WB1-49	Drywall Material (White)	20%	Glass Wool Fibers	2%	08/27	TS
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	Joint Compound (White)	80%	Calcite / Talc / Binders	100%	08/27	TS
17-WB1-50	Drywall Material (White)	70%	Glass Wool Fibers	2%	08/27	TS
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	20%	Cellulose Fibers	100%		
	Joint Compound (White)	10%	Calcite / Talc / Binders	100%		
17-WB1-51	Drywall Material (White)	60%	Glass Wool Fibers	2%	08/27	TS
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper Facing (Tan)	10%	Cellulose Fibers	100%		
	Joint Compound (White)	30%	Calcite / Talc / Binders	100%		

Moody Labs

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab Code 102056-0

TDSHS License No. 30-0084

Client : Terracon - St. Louis

Project : SIUE Building 220

Project # : 15217051

Lab Job No. : 21B-11060

Report Date : 08/27/2021

Page 7 of 13

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
17-WB1-52	Drywall Material (White)	60%	Glass Wool Fibers	2%	08/27	TS
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper Facing (Tan)	10%	Cellulose Fibers	100%		
	Joint Compound (White)	30%	Calcite / Talc / Binders	100%		
17-WB1-53	Drywall Material (White)	30%	Glass Wool Fibers	2%	08/27	TS
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	60%	Cellulose Fibers	100%		
	Joint Compound (White)	10%	Calcite / Talc / Binders	100%		
17-WB1-54	Drywall Material (White)	15%	Glass Wool Fibers	2%	08/27	TS
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	70%	Cellulose Fibers	100%		
	Joint Compound (White)	15%	Calcite / Talc / Binders	100%		
17-WB1-55	Drywall Material (White)	35%	Glass Wool Fibers	2%	08/27	TS
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper Facing (Tan)	10%	Cellulose Fibers	100%		
	Joint Compound (White)	55%	Calcite / Talc / Binders	100%		
18-MG5-56	Flooring (Grey)	99%	Binders / Fillers	100%	08/27	TS
	Tan Mastic (Tan)	1%	Calcite	40%		
			Glue Binders	60%		
18-MG5-57	Flooring (Grey)	99%	Binders / Fillers	100%	08/27	TS
	Tan Mastic (Tan)	1%	Calcite	40%		
			Glue Binders	60%		
18-MG5-58	Flooring (Grey)	99%	Binders / Fillers	100%	08/27	TS
	Tan Mastic (Tan)	1%	Calcite	40%		
			Glue Binders	60%		

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2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
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Client : Terracon - St. Louis

Project : SIUE Building 220

Project # : 15217051

Lab Job No. : 21B-11060

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
19-MA4-59	Grout (Red)	100%	Aggregate Cement Binders	65% 35%	08/27	TS
19-MA4-60	Grout (Red)	100%	Aggregate Cement Binders	65% 35%	08/27	TS
19-MA4-61	Grout (Red)	100%	Aggregate Cement Binders	65% 35%	08/27	TS
20-MA6-62	Plaster (Grey) Stucco (Tan)	3% 97%	Glass Wool Fibers Aggregate Cement Binders Aggregate Binders / Fillers	5% 60% 35% 65% 35%	08/27	TS
20-MA6-63	Plaster (Grey) Stucco (Tan)	3% 97%	Glass Wool Fibers Aggregate Cement Binders Aggregate Binders / Fillers	5% 60% 35% 65% 35%	08/27	TS
20-MA6-64	Plaster (Grey) Stucco (Tan)	10% 90%	Glass Wool Fibers Aggregate Cement Binders Aggregate Binders / Fillers	5% 60% 35% 65% 35%	08/27	TS
21-CA1-65	Caulking (Grey)	100%	Polyethylene Fibers Binders / Fillers	5% 95%	08/27	TS
21-CA1-66	Caulking (Grey)	100%	Binders / Fillers	100%	08/27	TS
21-CA1-67	Caulking (Grey)	100%	Binders / Fillers	100%	08/27	TS
22-CA2-68	Caulking (Grey)	100%	Binders / Fillers	100%	08/27	TS
22-CA2-69	Caulking (Grey)	100%	Polyethylene Fibers Binders / Fillers	5% 95%	08/27	TS

Moody Labs

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab Code 102056-0

TDSHS License No. 30-0084

Client : Terracon - St. Louis

Project : SIUE Building 220

Project # : 15217051

Lab Job No. : 21B-11060

Report Date : 08/27/2021

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
22-CA2-70	Caulking (Grey)	100%	Polyethylene Fibers Binders / Fillers	5% 95%	08/27	TS
23-CA1-71	Caulking (Black)	100%	Binders / Fillers	100%	08/27	TS
23-CA1-72	Caulking (Black)	100%	Binders / Fillers	100%	08/27	TS
23-CA1-73	Caulking (Black)	100%	Binders / Fillers	100%	08/27	TS
24-MS5-74	Vapor Barrier (Black)	100%	Calcite Glass Wool Mesh Binders / Fillers	30% 5% 65%	08/27	TS
24-MS5-75	Vapor Barrier (Black)	100%	Calcite Glass Wool Mesh Binders / Fillers	30% 5% 65%	08/27	TS
24-MS5-76	Vapor Barrier (Black)	100%	Calcite Glass Wool Mesh Binders / Fillers	30% 5% 65%	08/27	TS
25-CP5-77	Board Panel (Brown)	100%	Cellulose Fibers Resin Binders	80% 20%	08/27	TS
25-CP5-78	Board Panel (Brown)	100%	Cellulose Fibers Resin Binders	80% 20%	08/27	TS
25-CP5-79	Board Panel (Brown)	100%	Cellulose Fibers Resin Binders	80% 20%	08/27	TS
26-CT3-80	Acoustic Tile (Light Grey)	100%	Cellulose Fibers Mineral Wool Fibers Perlite	50% 30% 20%	08/27	TS
26-CT3-81	Acoustic Tile (Light Grey)	100%	Cellulose Fibers Mineral Wool Fibers Perlite	50% 30% 20%	08/27	TS

Moody Labs

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab Code 102056-0

TDSHS License No. 30-0084

Client : Terracon - St. Louis

Project : SIUE Building 220

Project # : 15217051

Lab Job No. : 21B-11060

Report Date : 08/27/2021

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
26-CT3-82	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	08/27	TS
			Mineral Wool Fibers	30%		
			Perlite	20%		
27-RF3-83	Sand (Light Grey)	5%	Sand	100%	08/27	TS
	Roof Membranes (Black / White)	20%	Synthetic Fibers	10%		
			Calcite	30%		
			Tar Binders	60%		
	Roofing Felts (Black)	10%	Glass Wool Fibers	45%		
			Tar Binders	55%		
	Roofing Tars (Black)	10%	Tar Binders	100%		
	Fiber Board (Tan)	35%	Wood Fibers	100%		
	Felt Facing (Grey)	10%	Cellulose Fibers	65%		
			Glass Wool Fibers	35%		
	Foam Insulation (Light Yellow)	10%	Synthetic Foam	100%		
27-RF3-84	Roofing Felts (Black)	20%	Glass Wool Fibers	45%	08/27	TS
			Tar Binders	55%		
	Roofing Tars (Black)	20%	Tar Binders	100%		
	Fiber Board (Tan)	40%	Wood Fibers	100%		
	Felt Facing (Grey)	10%	Cellulose Fibers	65%		
			Glass Wool Fibers	35%		
	Foam Insulation (Light Yellow)	10%	Synthetic Foam	100%		

Moody Labs

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab Code 102056-0

TDSHS License No. 30-0084

Client : Terracon - St. Louis

Project : SIUE Building 220

Project # : 15217051

Lab Job No. : 21B-11060

Report Date : 08/27/2021

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
27-RF3-85	Sand (Light Grey)	5%	Sand	100%	08/27	TS
	Roof Membranes (Black / White)	10%	Synthetic Fibers	10%		
			Calcite	30%		
			Tar Binders	60%		
	Roofing Felts (Black)	10%	Glass Wool Fibers	45%		
			Tar Binders	55%		
	Roofing Tars (Black)	10%	Tar Binders	100%		
	Fiber Board (Tan)	45%	Wood Fibers	100%		
	Felt Facing (Grey)	10%	Cellulose Fibers	65%		
28-RF6-86			Glass Wool Fibers	35%	08/27	TS
	Foam Insulation (Light Yellow)	10%	Synthetic Foam	100%		
	Rubber Membrane (Black)	10%	Rubber Binders	100%		
	Roofing Felt (Black)	2%	Cellulose Fibers	85%		
			Glass Wool Fibers	15%		
	Foam Insulation (Light Yellow)	40%	Synthetic Foam	100%		
	Glass Tape (White)	3%	Glass Wool Fibers	100%		
	Decking Material (White)	45%	Cellulose Fibers	5%		
			Gypsum / Binders	95%		
28-RF6-87	Rubber Membrane (Black)	10%	Rubber Binders	100%	08/27	GO
	Roofing Felt (Black)	2%	Cellulose Fibers	85%		
			Glass Wool Fibers	15%		
	Foam Insulation (Light Yellow)	40%	Synthetic Foam	100%		
	Glass Tape (White)	3%	Glass Wool Fibers	100%		
	Decking Material (White)	45%	Cellulose Fibers	5%		
			Gypsum / Binders	95%		

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2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab Code 102056-0

TDSHS License No. 30-0084

Client : Terracon - St. Louis

Project : SIUE Building 220

Project # : 15217051

Lab Job No. : 21B-11060

Report Date : 08/27/2021

Page 12 of 13

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
28-RF6-88	Rubber Membrane (Black)	10%	Rubber Binders	100%	08/27	GO
	Glass Tape (White)	3%	Glass Wool Fibers	100%		
	Decking Material (White)	60%	Cellulose Fibers	5%		
			Gypsum / Binders	95%		
	Roofing Felt (Black)	2%	Cellulose Fibers	85%		
			Glass Wool Fibers	15%		
	Foam Insulation (Light Yellow)	25%	Synthetic Foam	100%		
29-RF1-89	Silver Paint (Silver)	5%	Pigment / Binders	100%	08/27	GO
	Tar (Black)	95%	Cellulose Fibers	10%		
			Tar Binders	90%		
29-RF1-90	Silver Paint (Silver)	5%	Pigment / Binders	100%	08/27	GO
	Tar (Black)	95%	Cellulose Fibers	10%		
			Tar Binders	90%		
29-RF1-91	Silver Paint (Silver)	5%	Pigment / Binders	100%	08/27	GO
	Tar (Black)	95%	Cellulose Fibers	10%		
			Tar Binders	90%		
30-WB1-92	Drywall Material (White)	45%	Glass Wool Fibers	2%	08/27	TS
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	40%	Cellulose Fibers	100%		
	Joint Compound (White)	15%	Calcite / Talc / Binders	100%		
30-WB1-93	Drywall Material (White)	10%	Glass Wool Fibers	2%	08/27	TS
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper Facing (Tan)	60%	Cellulose Fibers	100%		
	Joint Compound (White)	30%	Calcite / Talc / Binders	100%		

Moody Labs

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab Code 102056-0

TDSHS License No. 30-0084

Client : Terracon - St. Louis

Project : SIUE Building 220

Project # : 15217051

Lab Job No. : 21B-11060

Report Date : 08/27/2021

Page 13 of 13

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
30-WB1-94	Drywall Material (White)	50%	Glass Wool Fibers	2%	08/27	TS
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper Facing (Tan)	15%	Cellulose Fibers	100%		
	Joint Compound (White)	35%	Calcite / Talc / Binders	100%		



Chain of Custody

Lab Job # 216-11060
Lab Job # 94 PLM
Lab Job # _____

Please call in advance for immediate, after-hour, & weekend pricing & availability.

Page 1 of 4

ASBESTOS PLM

Bulk ☐ Immediate ☐ 1 day ☐ 2 day ☐ 3 day ☒ 5 day
☒ Analyze All ☐ Positive Stop

PCM Air (7400)

☐ Immediate ☐ 1 day ☐ 2 day ☐ 3 day ☐ 5 day
Analyze Blanks ☐ Yes ☐ No

TOTAL DUST(0500/0600)

☐ 1 day ☐ 2 day

ASBESTOS TEM

Air AHERA Method ☐ Late Night* ☐ 6 hr ☐ 12 hr ☐ 24 hr
Air 7402 (Modified) ☐ 1 day ☐ 2 day ☐ 3 day
Bulk ☐ 1 day ☐ 2 day ☐ 3 day ☐ 5 day
Water/Wipe/Micro Vac ☐ 1 day ☐ 2 day ☐ 3 day
Analyze Blanks ☐ Yes ☐ No

*Late night analysis surcharges apply

MOLD

Direct Exam ☐ Immed ☐ 1 day ☐ 2 day ☐ 5 day
Standard Air ☐ Immed ☐ 1 day ☐ 2 day ☐ 5 day
Expanded Air ☐ Immed ☐ 1 day ☐ 2 day ☐ 5 day
Culture** ☐ 10-14 days
Analyze Blanks ☐ Yes ☐ No

Turnaround of Culture Samples subject to Culture Growth

BACTERIA**

Colony Counts (CC) ☐ 3 day ☐ 5 day
CC + Gram Stain ☐ 3 day ☐ 5 day
Coliform & E. coli (P/A) ☐ 2-3 day
Legionella ☐ 14 days

OTHER:

Billing Company / City: Terracon / St. Louis

of Samples: 94

Submitter's Company: Terracon

Sample Date: 8-16-21

Submitter's Name: Shannon Starr

Project #: 15217051

Project: SIUE Building 220

Phone #: 618-719-5902

Contact Information: Name: Shannon Starr

Mobile #: _____

E-mail Results to: Shannon.starr@terracon.com

Fax #: _____

Invoice Address: eric.schatz@terracon.com

P.O. #: _____

Please review paperwork and samples before submitting to lab. Unsealed / improperly packaged / damaged / expired samples or excessive administrative requests may incur additional fees

Notes:

Sample #	Sample Description	Vol. / Area (if applicable)	Location / Notes
01-MG7-01	Green carpet adhesive		Rm 1031
01-MG7-02			Copy room
01-MG7-03			Hallway by room 1023
02-MG3-04	4" Maroon core base + mastic		Lobby
02-MG3-05			Student learning center (1080)
02-MG3-06			
03-MG3-07	4" Brown core base + mastic		Rm 1030
03-MG3-08			Rm 1040
03-MG3-09			Rm 1044
04-CT3-10	2'x2' Rough textured ceiling tile		Rm 1034
04-CT3-11			Rm Hallway by waiting area
04-CT3-12			Hallway by Rm 1021
05-F12-13	12"x12" white w/black dots floor tile		Hallway
05-F12-14			Rm 1046
05-F12-15			Rm 1042
Released By: <u>[Signature]</u>	Date / Time: <u>8-19-21</u>	Received By: <u>[Signature]</u>	Date / Time: <u>8/20/21 5:00</u>
Released By: _____	Date / Time: _____	Received By: _____	Date / Time: _____



Chain of Custody

Lab Job #

215 11060

Lab Job #

Lab Job #

Page 2 of 4

Project: SEUE Building 020

Project #: 15217051

Sample #	Sample Description	Vol. / Area (if applicable)	Location / Notes
06-CT3-16	2'x2' Pinkade ceiling tiles		Rm 1046
06-CT3-17			Rm 1044
06-CT3-18			Rm 1042
07-FT5-19	10'x10' Grey 1/2" speckles floor tile		Lobby
07-FT5-20			
07-FT5-21			
08-MG3-22	4" Grey core base & mastic		Front Entry
08-MG3-23			Back entry
08-MG3-24			
09-FT2-25	12"x12" Light grey 1/2" speckles floor tile		By drink fountains
09-FT2-26			
09-FT2-27			
10-MA3/MA4-28	2'x2" Tan ceramic floor tile		Women's Restroom
10-MA3/MA4-29			
10-MA3/MA4-30			
11-MA3/MA4-31	8"x8" Yellow ceramic wall tile		
11-MA3/MA4-32			
11-MA3/MA4-33			
12-MG8-34	Fiber reinforced panel adhesive		Chemical Storage room
12-MG8-35			
12-MG8-36			
13-MG3-37	6" Black core base & mastic		Roof hatch closet
13-MG3-38			Cleaning closet
13-MG3-39			
14-MG5-40	White pipe and mastic		Mechanical room
14-MG5-41			
14-MG5-42			
15-MS3-43	Black lab table tops		Rm 1046
15-MS3-44			Rm 1044
15-MS3-45			Rm 1042
16-SC7-46	Grey duct sealant		Hallway by Rm 1034
16-SC7-47			



Chain of Custody

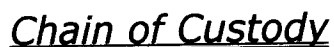
Lab Job # 21B-11060
Lab Job # _____
Lab Job # _____

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Project: STUE Building 220

Project #: 15217051

Sample #	Sample Description	Vol. / Area (if applicable)	Location / Notes
16-S7-48	Grey duct sealant		Lobby
17-WB1-49	Drywall & joint compound		Hallway by Rm 1024
17-WB1-50			Lobby
17-WB1-51			Hallway Rm 1026
17-WB1-52			Hallway
17-WB1-53			Rm 1011
17-WB1-54			Copy room
17-WB1-55			Rm 1037
18-M65-56	Mastic under rubber floor		Rm 1085
18-M65-57			
18-M65-58			
19-M64-59	Brick grout		Exterior
19-M64-60			
19-M64-61			
20-M66-62	Stucco		exterior (back entrance)
20-M66-63			
20-M66-64			
21-CA1-65	White window caulk		Exterior windows
21-CA1-66			
21-CA1-67			
22-CA2-68	White door caulk		Exterior doors
22-CA2-69			
22-CA2-70			
23-CA1-71	Black window caulk		Exterior front windows
23-CA1-72			
23-CA1-73			
24-M55-74	Black vapor barrier		Behind exterior wall panels
24-M55-75			
24-M55-76			
25-CPS-77	Cement board panels		Front exterior
25-CPS-78			
25-CPS-79			



Lab Job # 21B-11060
Lab Job # _____
Lab Job # _____

Page 4 of 4

Project: SIVE Building 220

Project #: 15217051

Moody Labs ♦ 2051 Valley View Ln. ♦ Farmers Branch, TX 75234 ♦ Phone (972) 241-8460 ♦ Fax (972) 241-8461
www.moodylabs.com **MLQ-0315-2018**

APPENDIX C

LEAD COATINGS LABORATORY ANALYTICAL REPORT

**EMSL Analytical, Inc.**

100 Green Park Industrial Court, Saint Louis, MO 63123

Phone/Fax: (314) 577-0150 / (314) 776-3313

<http://www.EMSL.com>saintlouislalab@emsl.com

EMSL Order: 392108429

CustomerID: TERR57

CustomerPO: 15217051

ProjectID:

Attn: **Shannon Starr**
Terracon Consultants, Inc.
11600 Lilburn Park Road
Saint Louis, MO 63146

Phone: (314) 692-8811
Fax: (314) 692-8810
Received: 8/18/2021 03:15 PM
Collected:

Project: **SIUE Building 220 / 15217051****Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)***

<i>Client Sample</i>	<i>Description</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>RDL</i>	<i>Lead Concentration</i>
P01			8/20/2021	0.2581 g	0.0080 % wt	<0.0080 % wt
392108429-0001						
P02			8/20/2021	0.2526 g	0.0080 % wt	<0.0080 % wt
392108429-0002						
P03			8/20/2021	0.2546 g	0.0080 % wt	<0.0080 % wt
392108429-0003						
P04			8/20/2021	0.1553 g	0.013 % wt	<0.013 % wt
392108429-0004						
P05			8/20/2021	0.1042 g	0.019 % wt	<0.019 % wt
392108429-0005						
P06			8/20/2021	0.2482 g	0.0081 % wt	<0.0081 % wt
392108429-0006						
P07			8/20/2021	0.2511 g	0.0080 % wt	<0.0080 % wt
392108429-0007						
P08			8/20/2021	0.0993 g	0.020 % wt	<0.020 % wt
392108429-0008						
P09			8/20/2021	0.0951 g	0.021 % wt	<0.021 % wt
392108429-0009						
P10			8/20/2021	0.2573 g	0.0080 % wt	<0.0080 % wt
392108429-0010						
P11			8/20/2021	0.2535 g	0.0080 % wt	<0.0080 % wt
392108429-0011						

Jeff Siria, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, 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. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Saint Louis, MO AIHA-LAP, LLC-ELLAP Accredited #102636

Initial report from 08/20/2021 16:44:36

**EMSL Analytical, Inc.**

100 Green Park Industrial Court, Saint Louis, MO 63123

Phone/Fax: (314) 577-0150 / (314) 776-3313

<http://www.EMSL.com>saintlouislal@emsl.com

EMSL Order: 392108429

CustomerID: TERR57

CustomerPO: 15217051

ProjectID:

Attn: **Shannon Starr**
Terracon Consultants, Inc.
11600 Lilburn Park Road
Saint Louis, MO 63146

Phone: (314) 692-8811
Fax: (314) 692-8810
Received: 8/18/2021 03:15 PM
Collected:

Project: **SIUE Building 220 / 15217051****Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)***

<i>Client SampleDescription</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>RDL</i>	<i>Lead Concentration</i>
P12 392108429-0012		8/20/2021	0.2581 g	0.0080 % wt	<0.0080 % wt

Jeff Siria, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, 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. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Saint Louis, MO AIHA-LAP, LLC-ELLAP Accredited #102636

Initial report from 08/20/2021 16:44:36



Lead Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.

200 Route 130 North

Cinnaminson, NJ 08077

EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

392108429

PHONE: (800) 220-3875

EMAIL: CinnaminsonLeadLab@emsl.com

Customer Information		Billing Information	
Customer ID:		Billing ID:	
Company Name:	Terracon	Company Name:	Terracon
Contact Name:	Shannon Starr	Billing Contact:	Eric Schatz
Street Address:	11600 Lilburn Park Rd	Street Address:	11600 Lilburn Park Rd
City, State, Zip:	St. Louis, MO, 63146	City, State, Zip:	St. Louis, MO, 63146
Country:	U.S.	Country:	U.S.
Phone:	618-719-5962	Phone:	314-569-9367
Email(s) for Report:	Shannon.Starr@terracon.com	Email(s) for Invoice:	Shannon.Starr@terracon.com

Project Information		Purchase Order:	
Project Name/No: SIUE Building 220/15217051			
EMSL LIMS Project ID: (If applicable, EMSL will provide)		US State where samples collected:	
Sampled By Name: Brad Frisch		State of Connecticut (CT) must select project location:	
Sampled By Signature: [Signature]		<input type="checkbox"/> Commercial (Taxable) <input type="checkbox"/> Residential (Non-Taxable)	
Turn-Around-Time (TAT)		No. of Samples in Shipment	
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 32 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 86 Hour <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			

MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT	SELECTION
CHIPS <input checked="" type="checkbox"/> by wt. <input type="checkbox"/> ppm (mg/kg) <input type="checkbox"/> mg/cm	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	<input checked="" type="checkbox"/>
Reporting Limit based on a minimum 0.25g sample weight	SW 846-6010D	ICP-OES	0.0004% (4ppm)	<input type="checkbox"/>
AIR	NIOSH 7082	Flame Atomic Absorption	4µg/filter	<input type="checkbox"/>
	NIOSH 7300M / NIOSH 7303M	ICP-OES	0.5µg/filter	<input type="checkbox"/>
	NIOSH 7300M / NIOSH 7303M	ICP-MS	0.05µg/filter	<input type="checkbox"/>
WIPE <input type="checkbox"/> ASTM <input type="checkbox"/> NON-ASTM	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	<input type="checkbox"/>
If no box is checked, non-ASTM Wipe is assumed	SW 846-6010D	ICP-OES	1.0µg/wipe	<input type="checkbox"/>
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
TTLG	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)	<input type="checkbox"/>
STLC	22 CCR App. II, 7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	<input type="checkbox"/>
	SW 846-6010D*	ICP-OES	2mg/kg (ppm)	<input type="checkbox"/>
Wastewater	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
Unpreserved <input type="checkbox"/>	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	<input type="checkbox"/>
Preserved with HNO3 <input type="checkbox"/> PH<2	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	<input type="checkbox"/>
Drinking Water	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
Unpreserved <input type="checkbox"/>	40 CFR Part 50	ICP-OES	12 µg/filter	<input type="checkbox"/>
Preserved with HNO3 <input type="checkbox"/> PH<2				<input type="checkbox"/>
TSP/SPM Filter				<input type="checkbox"/>
Other:				<input type="checkbox"/>

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
P01	white on metal roof deck/Rm 1025		8-17-21
P02	off-white on duct hanger metal/Rm 1042		
P03	Green on dry wall/Hallway by Rm 1046		
P04	white on dry wall/lobby by Rm 1030		
P05	white on duct work/Hallway by Rm 1009		

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by: [Signature]	Date/Time: 8-18-21	Received by: [Signature]	Date/Time: 8/18/21 16:15 SW/i
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - COC-26 Lead R16 4/16/2021

*6010C Available Upon Request

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

EMSL Order Number / Lab Use Only

EMAIL: CinnaminsonLeadLab@ems1.com

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Controlled Document - COC-25 Lead R16 4/18/2021

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

APPENDIX D
CERTIFICATIONS



525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.dph.illinois.gov

SHANNON N STARR
201 HOWARD DR
BELLEVILLE, IL 62223

3/3/2021



ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 19909

Enclosed is your Asbestos Professional License. Please note the expiration date on the card and in the image depicted below.

COPY OF THE ASBESTOS PROFESSIONAL LICENSE

Front of License

Back of License

		ASBESTOS PROFESSIONAL LICENSE		ENDORSEMENTS	TC EXPIRES
				INSPECTOR	11/20/2021
ID NUMBER	ISSUED	EXPIRES			
100 - 19909	3/3/2021	05/15/2022			
SHANNON N STARR 201 HOWARD DR BELLEVILLE, IL 62223 Environmental Health				Alteration of this license shall result in legal action This license issued under authority of the State of Illinois Department of Public Health This license is valid only when accompanied by a valid training course certificate.	



525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.dph.illinois.gov

BRAD M FRISCH
2668 KETTERING COURT
SAINT CHARLES, MO 63303

2/11/2021



ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 19110

Enclosed is your Asbestos Professional License. Please note the expiration date on the card and in the image depicted below.

COPY OF THE ASBESTOS PROFESSIONAL LICENSE

Front of License

Back of License

		ASBESTOS PROFESSIONAL LICENSE		ENDORSEMENTS	TC EXPIRES
ID NUMBER 100 - 19110		ISSUED 2/11/2021		INSPECTOR	1/15/2022
EXPIRES 05/15/2022				PROJECT MANAGER	6/3/2021
BRAD M FRISCH 2668 KETTERING COURT SAINT CHARLES, MO 63303 Environmental Health				AIR SAMPLING PROFESSIONAL	
				Alteration of this license shall result in legal action This license issued under authority of the State of Illinois Department of Public Health This license is valid only when accompanied by a valid training course certificate.	

If you have any questions or need further assistance, contact the Asbestos Program at (217)782-3517 or fax (217)785-5897.

Our WEB address is: dph.illinois.gov/topics-services/environmental-health-protection/asbestos
EMAIL Address: dph.asbestos@illinois.gov



525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.dph.illinois.gov

12/11/2020

LICENSE NUMBER: 1002440

Brad M Frisch
2668 Kettering Court
St. Charles, MO 63303

LICENSE APPROVED

IDPH recently received and reviewed your application for lead licensure. Your qualifications have been reviewed and found that you meet the requirements set forth by the Lead Poisoning Prevention Code, Section 845.125. Therefore, your application for lead licensure is now complete. Enclosed please find your lead license card. Please have this identification card with you at all times while conducting lead abatement activities.

IDPH has updated its 7 – Day Notice of Commencement effective immediately. The revised document can be identified by its 9/16 revision date on the bottom left corner. Please discontinue using the old form and begin using the new form as soon as possible. The revised form is located in the same web address that the old form was located (<http://www.dph.illinois.gov/sites/default/files/forms/7-day-notice-leadabatement-mitigation-project-091916.pdf>).



LEAD RISK ASSESSOR LICENSE

LEAD ID	ISSUED	EXPIRES
1002440	12/11/2020	1/31/2022

Brad M Frisch
2668 Kettering Court
St. Charles, MO 63303



ILLINOIS LEAD PROGRAM
Environmental Health

APPENDIX E

PHOTO LOG



Photo 1: View of Building 220.



Photo 2: HA 01, green carpet adhesive located in study room, pharmacy lab, room 1027, and offices.

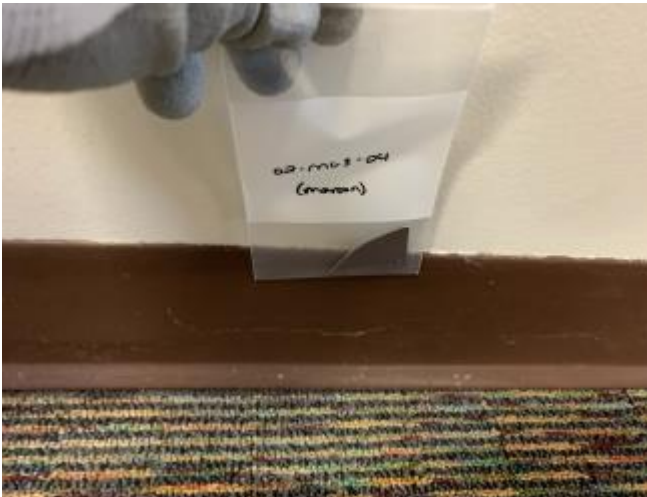


Photo 3: HA 02, 4" maroon cove base and mastic located in the study room.

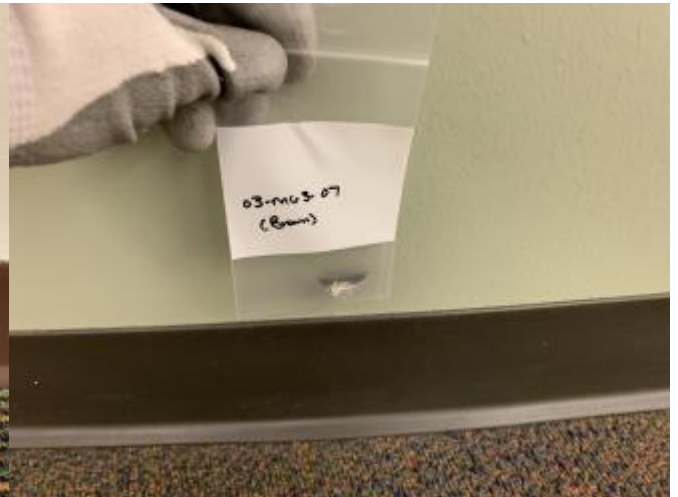


Photo 4: HA 03, 4" brown cove base and mastic located in the pharmacy lab, offices, rooms 1027, 1028, 1039, and labs 1040-1046.



Photo 5: HA 04, 2' x 2' rough textured ceiling tiles located in the office areas.



Photo 6: HA 05, 12" x 12" white w/ black dots floor tile located in rooms 1038, 1039, 1009 breakroom, and labs 1040-1046.



Photo 7: HA 06, 2' x 2' pinhole ceiling tiles located in rooms 1038, 1039, and labs 10040-1046.



Photo 8: HA 07, grey w/ specks floor tile located in the hallways and room 1051.

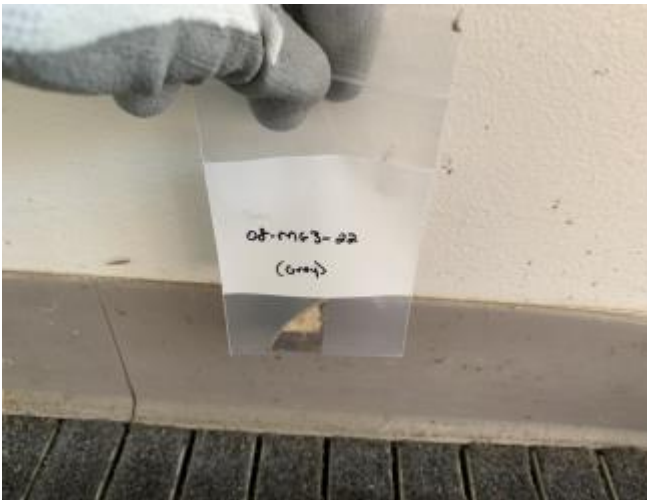


Photo 9: HA 08, 4" grey cove base and mastic located in the entries, hallways, and room 1051.



Photo 10: HA 09, 12" x 12" light grey w/ specks floor tile located by the restrooms.



Photo 11: HA 10, 2" x 2" tan ceramic floor tile located in the restrooms.



Photo 12: HA 11, 2" x 2" yellow ceramic wall tile located in the restrooms.



Photo 13: HA 12, fiber reinforced panel adhesive located in the exterior chemical storage room.

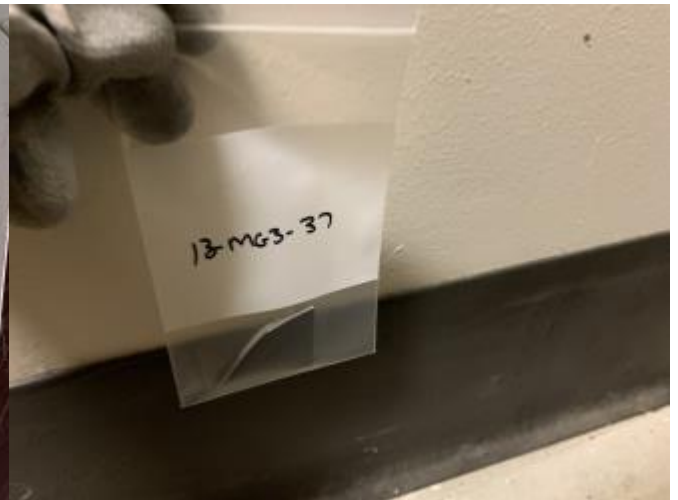


Photo 14: HA 13, 6" black cove base and mastic located in rooms 1052, 1019, and the mechanical room.



Photo 15: HA 14, white pipe end mastic located in the mechanical room and hallways.

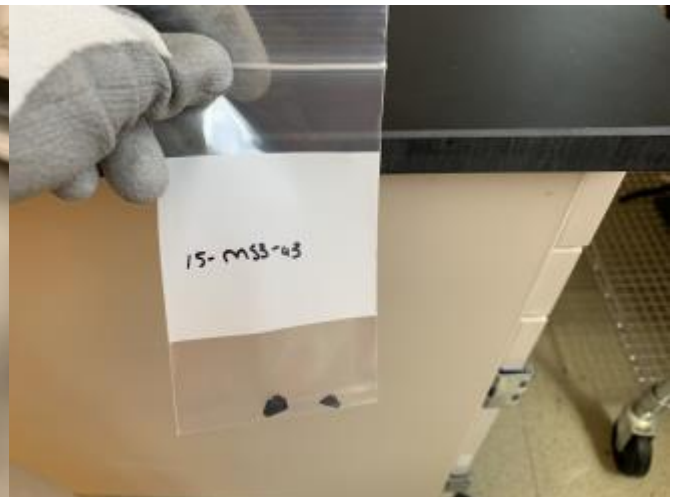


Photo 16: HA 15, black lab tabletops located in labs 1040-1046.



Photo 17: HA 16, grey duct sealant on the HVAC seams.

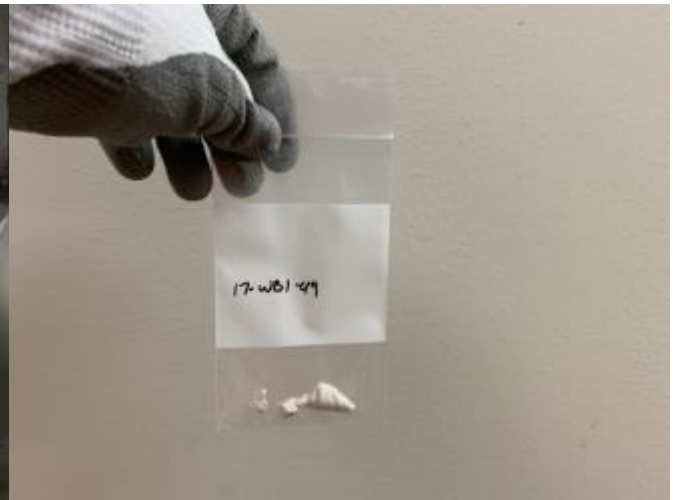


Photo 18: HA 17, drywall and joint compound located throughout the main part of the building.



Photo 19: HA 18, mastic under rubber floor located in the storage room in the study room.



Photo 20: HA 19, brick grout located on the exterior.



Photo 21: HA 20, stucco located on the exterior back entrance wall and overhang.

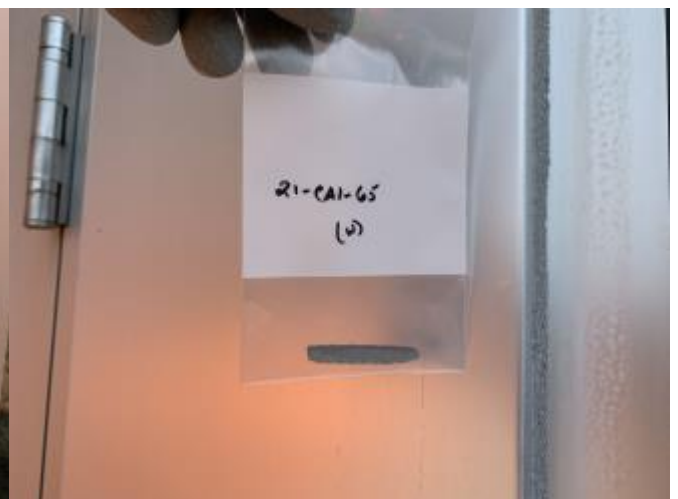


Photo 22: HA 21, white window caulk located on the exterior windows.



Photo 23: HA 22, white door caulk located on the exterior doors.

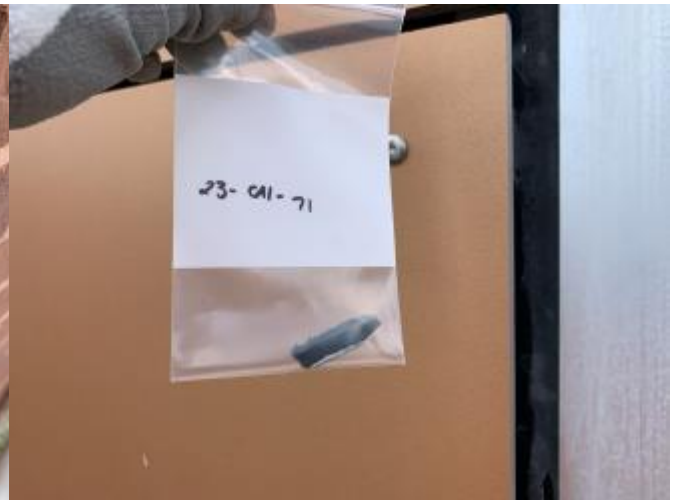


Photo 24: HA 23, black window caulk located on the front exterior windows.

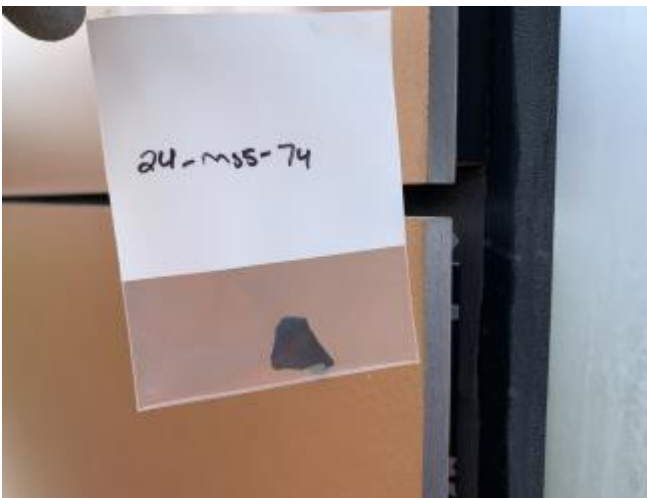


Photo 25: HA 24, black vapor barrier located behind the exterior wall panels.



Photo 26: HA 25, cement board panels located on the front exterior.



Photo 27: HA 26, 2' x 2' white ceiling tiles located in the exterior chemical storage room.

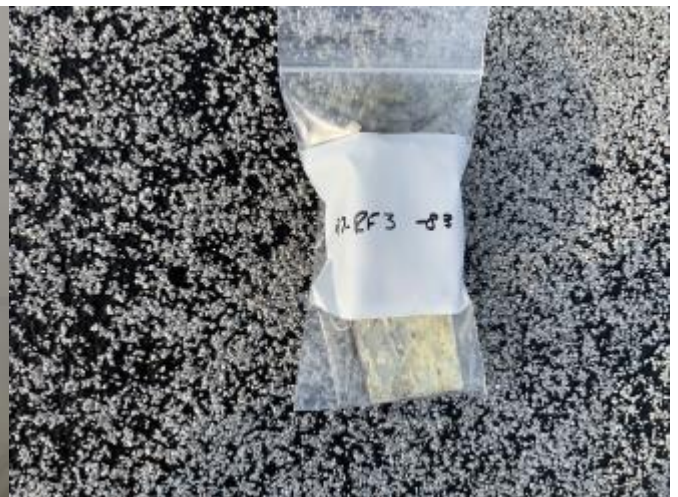


Photo 28: HA 27, rolled shingles located on the roof of the main building.



Photo 29: HA 28, black membrane located on the study room roof.



Photo 30: HA 29, black tar with silver paint located around the base of vents and HVAC on the main roof.

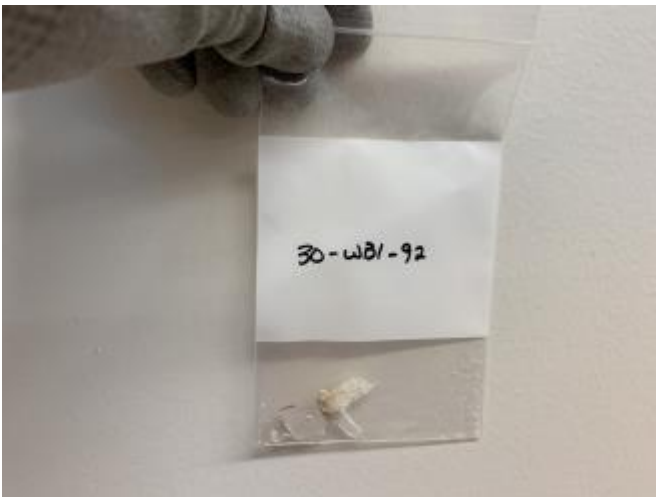


Photo 31: HA 30, drywall and joint compound located in the study room.



Photo 1: P01, white paint on metal roof deck.



Photo 2: P02, off-white paint on duct hanger metal.



Photo 3: p03, green paint on drywall.



Photo 4: P04, white paint on drywall.

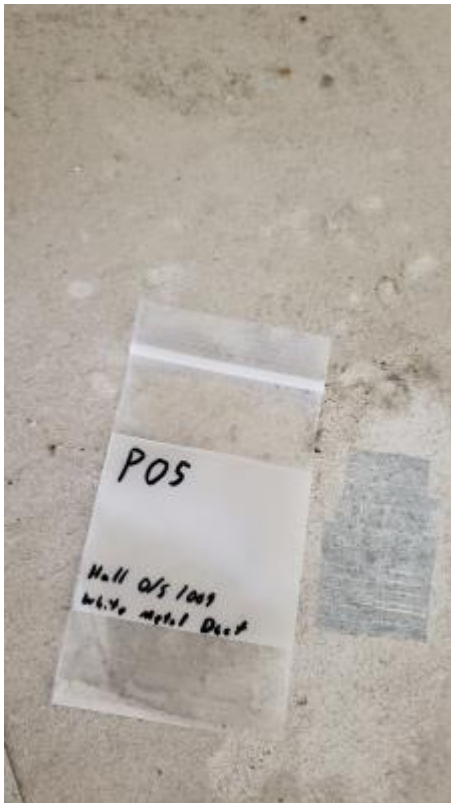


Photo 5: p05, white paint on duct work.



Photo 6: P06, off-white paint on drywall.



Photo 7: P07, white paint on metal roof joint.

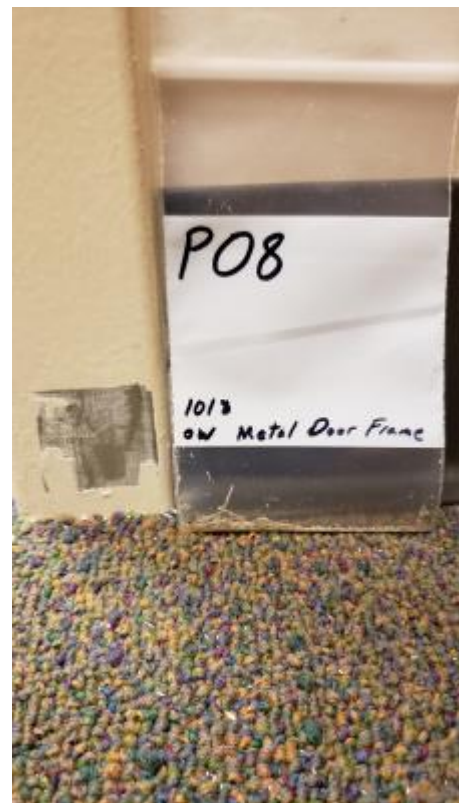


Photo 8: P08, off-white paint on metal door frame.



Photo 9: P09, maroon paint on metal door frame.

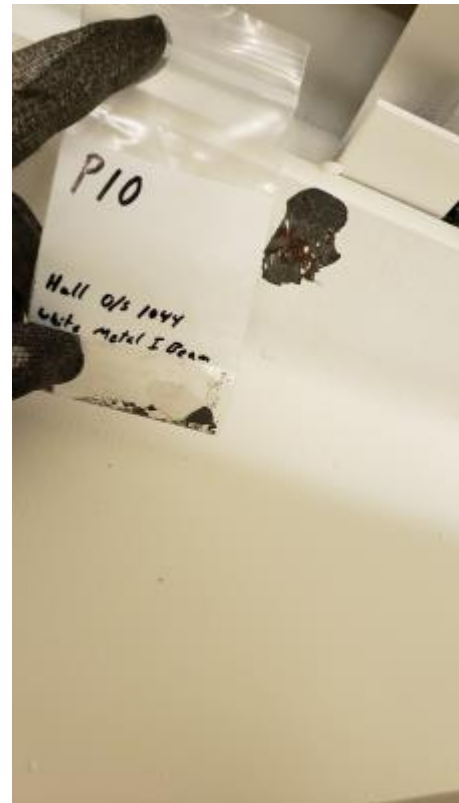


Photo 10: P10, white paint on metal I-beam.

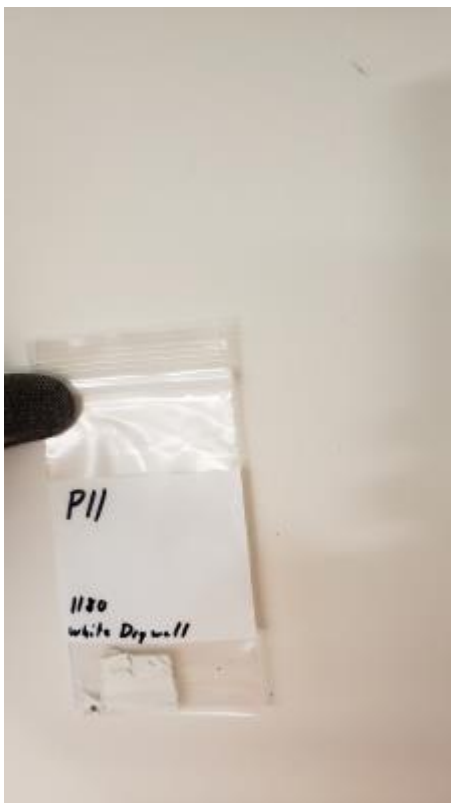


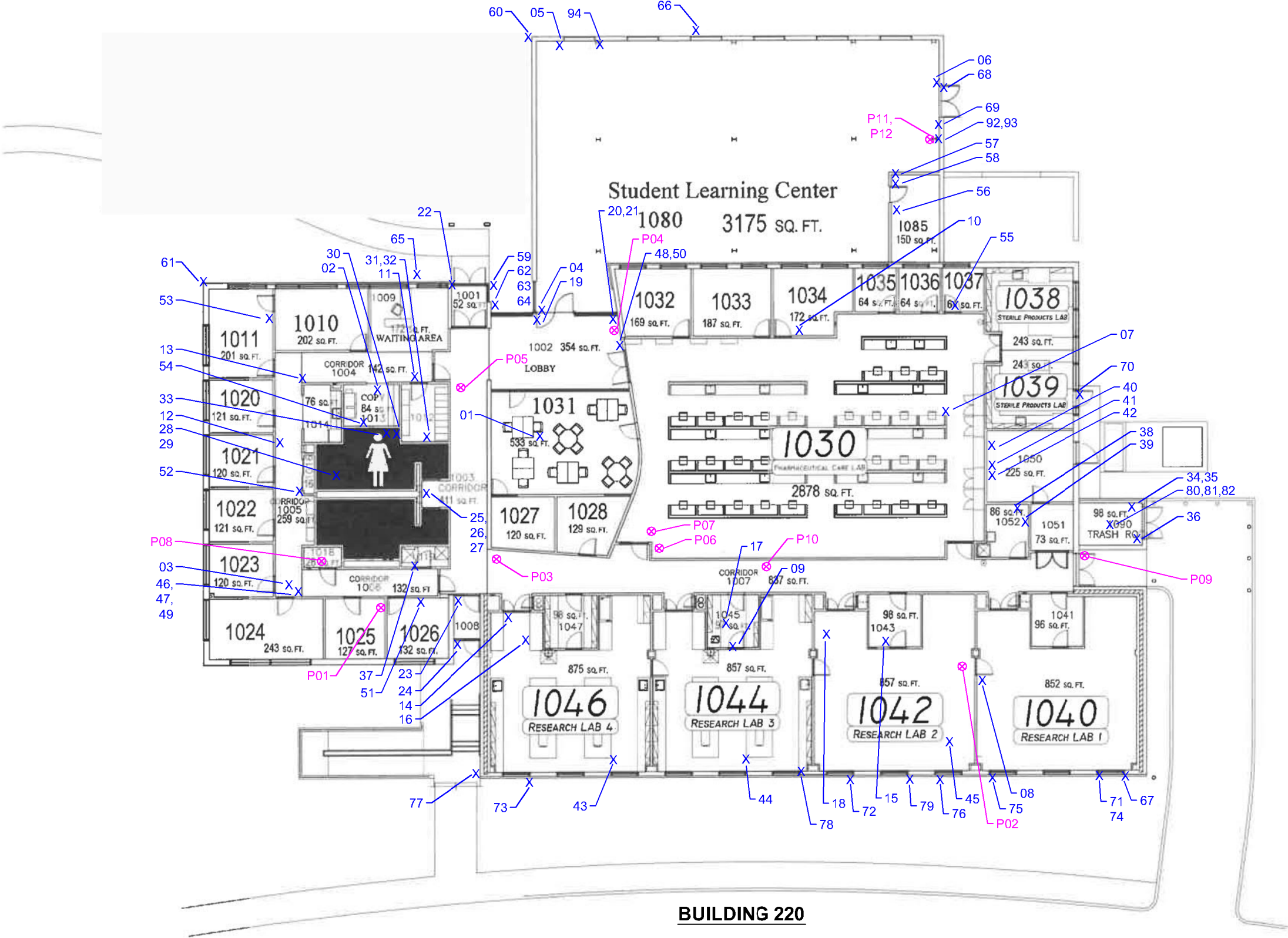
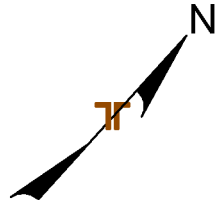
Photo 11: P11, white paint on drywall.



Photo 12: P12, white paint on metal I-beam.

APPENDIX F

SITE DIAGRAM



BUILDING 220

LEGEND

- X ACM SAMPLE LOCATION
- X ACM POSITIVE SAMPLE LOCATION
- ⊗ LBP SAMPLE LOCATION

Project Mng:	SNS	Project No.	15217051
Approved By:	SNS	Scale:	NOT TO SCALE
Checked By:	SNS	Date:	08/31/2021
Drawn By:	DBM	File No.	S2_T05.dwg

Terracon
Consulting Engineers and Scientists
11600 LILBURN PARK RD SAINT LOUIS, MO 63146-3535
PH. (314) 892-8811

ASSUMED ASBESTOS-CONTAINING MATERIALS (ACMS) AND LEAD-BASED PAINT (LBP) SAMPLE LOCATIONS
SIUE HEALTH SCIENCES BUILDINGS 200 AND 220 200 AND 220 UNIVERSITY PARK DRIVE EDWARDSVILLE, ILLINOIS

EXHIBIT
1