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February 28, 2020

Michael J. Kelly, AIA
Principal
Tilton, Kelly + Bell, L.L.C.
55 W. Monroe St., Suite 1975
Chicago, IL 60603

**Subject: Proposal for Professional Environmental Services
City Colleges of Chicago (CCC)
Truman College – Biology Lab Renovations
1145 W Wilson Avenue
Chicago, Illinois 60640**

Dear Mr. Kelly:

Enclosed please find the ACM and LBP Report for the above identified facility, prepared by Environmental Design International inc. (EDI). EDI performed the limited surveys to identify ACM and LBP that would potentially be impacted by the planned renovation of the Biology Lab. The survey focused on interior renovation areas as defined by the Client. EDI completed the field activities on January 9, 2020.

Please feel free to call Mr. Paul Kybartas at (312) 345-0466 or Gary P. Flentge at (312) 345-8679 for any assistance.

Thank you,

Environmental Design International inc.

Paul Kybartas
Senior Project Manager

Gary P. Flentge, MPH, LEHP, REPA, CESCO
Vice President, Industrial Hygiene

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Summary of Results

EDI was retained by the Client to provide ACM and LBP sampling of the Biology Labs in Truman College, Chicago, IL.

EDI completed the initial field activities on January 9, 2020 by Mr. Paul Kybartas, Illinois asbestos inspector license #100-08451, and Illinois lead risk assessor license #006379. The survey was conducted for the planned renovations within the scope of work area.

EDI performed a visual survey of building materials, and collected representative samples of homogeneous suspect ACM, in accordance with EPA requirements, guidelines and standard industry practices. The samples were submitted to a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory for bulk analysis. Painted components were tested for presence of LBP using an x-ray fluorescence (XRF) spectrum analyzer.

ACM Results

Based on the bulk sample laboratory analysis, the following suspect materials were reported to contain asbestos:

Material Description	Material Quantity	Material Location	Laboratory Results
12" x 12" Beige Floor Tile	~ 3,400 SF	Room 2161 Throughout Floor	PC 1.5% - 1.6% Chrysotile
12" x 12" Beige Floor Tile Black Mastic		Room 2161 Throughout Floor	PC 1.0% - PC 3.0% Chrysotile
9" x 9" Beige Floor Tile	~ 300 SF	Room 2161	None Detected (Considered positive due to the adherence of positive black mastic)
9" x 9" Black Mastic		Room 2161	PC 1.0% - PC 1.5% Chrysotile
White Joint Compound	Throughout	Room 2976 SW, 2161 East	PC .49% - PC .75% Chrysotile (Composite)
Vinyl Sheet Goods and Associated Mastic	~ 3,600 SF	Room 2175, 2976	PC 2.0% Chrysotile
Transite Panels in Lab Hoods	~200 SF	Throughout Scope of Work Area in Laboratory Fume Hoods	ASSUMED

PC=point count

LBP Results

EDI performed a limited LBP assessment and survey of suspect painted surfaces/components of the Truman College Biology Labs.

The limited LBP survey was focused to determine surfaces/components that may require special handling for recycling and disposal as part of the planned renovation/demolition.

No painted surfaces were identified as lead based paint within the defined renovation areas of the Truman College Biology Labs.

1.0 Introduction

EDI was retained by the Client to provide ACM and LBP sampling of Truman College Lab Renovations, 1145 W. Wilson St, Chicago, IL.

EDI completed the initial field activities on January 9th, 2020 by Mr. Paul Kybartas, Illinois asbestos inspector license #100-08451, and Illinois lead risk assessor license #006379. The survey was conducted for the planned renovations for the building.

EDI performed a visual survey of building materials, and collected representative samples of homogeneous suspect ACM, in accordance with EPA requirements, guidelines and standard industry practices. The samples were submitted to a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory for bulk analysis. Painted components were tested for presence of LBP using an x-ray fluorescence (XRF) spectrum analyzer.

1.1 Project Purpose and Background

The ACM and LBP survey were performed prior to the planned renovations for the building.

1.2 Scope of Work

EDI evaluated the Biology Laboratories for the presence of hazardous materials. The following items were included in the scope of work.

Asbestos Verification and Quantification Inspection

EDI performed a survey to determine and quantify suspect ACM in a renovation area. Only the areas reflected in the provided spreadsheet were included in the survey. The limited ACM survey included the following activities:

- Visual inspection of accessible areas of the subject property, as identified by TKB representatives, to be included in the scope of this project.
- Collection of bulk samples of identified suspect ACM per homogeneous materials.
- NVLAP accredited laboratory analysis of suspect ACM bulk samples by polarized light microscopy (PLM) to first positive result per homogeneous material.
- Preparation of a final report of findings.

LBP Survey

EDI performed a limited LBP survey, including testing of select surfaces that may be impacted by project activities, if present. EDI utilized x-ray fluorescence (XRF) technology for testing selected surfaces throughout the proposed renovation area, as applicable. EDI's LBP survey utilized modified procedures and XRF testing consistent with the U.S. Environmental Protection Agency (EPA) regulations and guidelines. Any surface reported as containing lead greater than or equal to 1.0 milligrams per square centimeter ($\geq 1.0 \text{ mg/cm}^2$) is considered as LBP by EPA definition. LBP testing by XRF is a non-destructive testing protocol and no paint chip sampling or lead dust wipe were included

in the survey. Representative sampling areas (RSAs), consisting of similar components with similar paint color and application, were defined and tested.

2.0 Limited Asbestos Survey

2.1 Limited Asbestos Survey Methodology

EDI performed a visual survey of building materials and collected representative samples of homogeneous suspect ACM, in accordance with EPA requirements, guidelines and standard industry practices. The representative sampling was performed using hand-tools without aid of power-driven equipment. Based on the authorized scope of work, EDI was not required to repair damage from the representative selective sampling. Roofing materials were not included in the scope of the ACM survey and testing.

Only currently certified and licensed inspector(s) and (if appropriate) trainee(s) were utilized for this inspection. Employee certifications are included in Appendix E.

The inspector(s) first reviewed supplied building documents, if applicable. A property/structure(s) walk-thru was then conducted to locate, identify, measure and separate identified suspect asbestos containing materials into homogeneous areas.

Samples were collected using EPA approved methods specifically designed for sample collection. Samples were taken utilizing the randomly distributive manner method while simultaneously applying amended water. Samples were immediately placed in a pre-labeled re-sealable plastic bag. To prevent accidental exposure, sample containers are made of a durable plastic designed to provide and airtight seal. The sampling instrument was subsequently wiped with a clean moist cloth to decontaminate the tool, prevent the potential release of asbestos fibers, and prevent cross contamination of subsequent samples. Sample areas were assessed to determine friability.

The following chart, as detailed by 40 CFR 763.86, is typically used (and in certain cases, required) for sampling surfacing materials that are spray-applied and troweled-on to walls and ceilings;

< 1000 s/f	3 samples
1000 – 5000 s/f	5 samples
>5000 s/f	7 samples

9 samples are recommended by the EPA for all samples

A minimum of three (3) samples of other suspect homogeneous materials consisting of thermal systems insulation (TSI) on the mechanical systems;

A group letter or combination of letter and number was assigned to each homogenous material. This combination serves as a prefix to identify materials of similar composition, texture, color, and date of installation, i.e., ceiling tile may be represented as CT1. Each sample was then assigned a sample number such as 01, 02, 03, etc.

All samples were identified on a signed and dated Chain-of-Custody document, which accompanied the samples to the laboratory.

The bulk samples were submitted to a National Institute of Standards and Technology (NIST), National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory for bulk analysis. To ensure

both quality and objectivity, an independent laboratory was used. Laboratories are selected based on their current accreditations. The laboratory chosen participates in the National Voluntary Laboratory Accreditation Program (NVLAP) for quality control procedures (NVLAP Lab Code: 101202-0). As specified in 40 CFR Chapter I (1-1-87 edition) Part 763, Subpart F, Appendix A - Figure 1.

Suspected asbestos samples were analyzed using polarized light microscopy (PLM) / dispersion staining techniques in accordance with the EPA Method documents "US EPA 600/M4-82-020, 1982" & "US EPA 600/R-93/118, 1993". Detection limits for this type of analysis are approximately one percent (by volume). All samples were analyzed by International Asbestos Testing Laboratories of Mt. Laurel, New Jersey (IATL), a National Voluntary Laboratory Accreditation Program (NVLAP) accredited asbestos laboratory. Laboratory results and accreditations are provided in Appendix B.

It should be noted when reviewing the data that multiple results can be reported for the same sample number. This is due to the fact that particular types of samples can produce multiple layers to be analyzed (i.e., floor tile and mastic, drywall and drywall compound, multi-layered TSI). However, while the laboratory will separate the different layers of the material for analysis, during the renovation if one layer of a multi-layered material is positive for asbestos, then all layers of that positive sample are considered positive for asbestos.

Some materials may not be accurately identified and/or quantified by PLM. As an example, the original fabrication of vinyl floor tile routinely involved milling of asbestos fibers to extremely small sizes. As a result, these fibers may go undetected under the standard PLM method. Transmission Electron Microscopy (TEM) is required for a more definitive analysis of these materials. These types of flooring materials that are reported by laboratory analysis to be non-asbestos by PLM analysis are routinely submitted to an accredited laboratory for analysis under TEM for verification of asbestos content. No samples were tested with TEM analysis for this project.

2.2 Limited Asbestos Survey Results

SUSPECT ASBESTOS CONTAINING MATERIALS

The following suspect asbestos containing materials were identified and sampled:

1145 W. Wilson Street Chicago, IL		
12" x 12" Beige Floor Tile and Associated Mastic	Brown Baseboard and Mastic	Drywall and Joint Compound
Solid Ceiling Tile	9" x 9" Beige Floor Tile and Associated Mastic	Vinyl Sheet Goods and Associated Mastics
Grey Baseboard and Mastic	Hard Pack Pipe Fitting (TSI)	Black Sink Countertops

According to the AHERA Model Accreditation Plan, non-suspect material such as fiberglass, foam rubber and plastics do not warrant sampling.

SUSPECT MATERIALS REPORTED AS ACM

Based on the bulk sample laboratory analysis, the following suspect materials were reported to contain asbestos:

Material Description	Material Quantity	Material Location	Laboratory Results
12" x 12" Beige Floor Tile	~ 3,600 SF	Room 2161 Throughout Floor	PC 1.5% - 1.6% Chrysotile
12" x 12" Beige Floor Tile Black Mastic			PC 1.0% - PC 3.0% Chrysotile
9" x 9" Beige Floor Tile	~ 300 SF	Room 2161	None Detected
9" x 9" Black Mastic		West Side 2161	PC 1.0% - PC 1.5% Chrysotile
White Joint Compound	Throughout	Room 2976 SW, 2161 East	PC 0.49% - PC 0.75% Chrysotile (Composite)
Vinyl Sheet Goods and Associated Mastic	~ 3,400 SF	Room 2175	PC 2.0% Chrysotile
Transite Panels in Lab Hoods	~200 SF	Throughout Scope of Work Area in Laboratory Fume Hoods	ASSUMED

PC=point count

Laboratory results for suspect materials that were identified and sampled are included in Appendix A.

It should be noted when reviewing the data that multiple results can be reported for the same sample number. This is due to the fact that particular types of samples can produce multiple layers to be analyzed (i.e., floor tile and mastic, drywall and drywall compound, multi-layered TSI). However, while the laboratory will separate the different layers of the material for analysis, during the renovation if one layer of a multi-layered material is positive for asbestos, then all layers of that positive sample are considered positive for asbestos.

2.3 Applicable Regulations

Environmental Protection Agency (EPA)

EPA's National Emission Standard for Hazardous Air Pollutants (NESHAP) (40 CFR 61, Subpart M) categorizes asbestos-containing materials (ACM) as any product that contains >1% asbestos, thereby ACM is regulated by EPA. EPA classifies the >1% asbestos materials as Regulated ACM, (RACM). Materials that contain <1% asbestos are not ACM; they are not regulated by EPA; and, are thereby not RACM.

Thermal system insulation (TSI) and sprayed-on or troweled-on asbestos is friable Regulated ACM (RACM); miscellaneous materials (floor tile and floor tile mastic) are classified as Category I Non-Friable Asbestos; and transite material is classified as Category II Non-Friable Asbestos, unless the material is made friable during demolition. Friable ACM is material that can be crumbled, pulverized, or reduced to a powder by hand.

NESHAP requires at least ten working days' notification prior to any renovation or demolition activity that will disturb greater than 160 square feet or 260 linear feet of RACM materials. RACM removed during abatement must be disposed of at a landfill approved by the EPA to receive asbestos wastes.

NESHAP states that RACM, including friable ACM and non-friable ACM that has become or has a high probability of becoming friable, present in quantities exceeding 260 lineal feet on pipes or 160 square feet on facility components must be removed prior to the commencement of any demolition activities. NESHAP also states that Category 1 non-friable ACM does not need to be removed prior to demolition if it is not in poor condition and has not become friable. Friable materials (except for roofing products) and transite are typically required to be removed prior to a demolition. Asbestos containing floor tile and mastic are required to be removed from concrete prior to recycling. If a facility is demolished by intentional burning, all regulated asbestos containing materials including Category I and Category II non-friable ACM must be removed before burning.

Illinois Department of Public Health (IDPH)

IDPH requires that a licensed abatement contractor perform the removal of ACM from the interior of facilities located within the State of Illinois. In addition, personnel performing the asbestos removal must be Illinois-licensed workers overseen by an Illinois-licensed supervisor. An Illinois-licensed Asbestos Project Designer should design the abatement of ACM, although no design is required under NESHAP regulations.

Occupational Safety and Health Administration (OSHA)

The Occupational Safety and Health Administration (OSHA) Construction Industry Standard (29 CFR) regulated materials that contain asbestos. Unlike EPA regulations, OSHA regulations **DO APPLY** to materials <1% asbestos. OSHA regulations specify minimum work practice standards and engineering controls for materials that contain <1% asbestos. OSHA regulations also specify more stringent engineering controls and work practices for employees handling ACM (>1% asbestos).

OSHA categorizes the removal of ACM, as defined by EPA, by "class" of material. Specific requirements for the removal of OSHA classified materials include, but are not limited to, regulated work areas, air monitoring, engineering controls, work practices, personal protective equipment, notification and training.

U.S. Department of Transportation (DOT)

The U.S. Department of Transportation (DOT) requires special procedures for packaging, labeling and transportation of asbestos wastes to disposal facilities. Other regulations may apply depending upon the contractor's means and methods.

EDI recommends the use of certified and licensed asbestos personnel for **all** planned disturbance of known and suspect ACM. In accordance with WDHS, EPA, and OSHA regulations asbestos containing materials must be removed by and disposed of by a certified/licensed asbestos abatement personnel/contractor.

3.0 Limited LBP Survey

3.1 Limited LBP Survey Methodology

EDI staff performed a limited visual survey of the building to identify representative painted surfaces for LBP testing. Employee certifications are presented in Appendix E. The limited LBP survey was conducted following a modified and limited sampling plan based on the U.S. Environmental protection Agency (EPA) regulations and guidelines. Any surface reported as containing lead greater than or equal to 1.0 milligrams per square centimeter ($\geq 1.0 \text{ mg/cm}^2$) is considered as LBP by EPA definition.

EDI utilized x-ray fluorescence (XRF) technology in the form of a Sci Tec, Model MAP 4 FA4C1, which utilizes a Cobalt-57 source, for testing selected surfaces/components throughout the proposed renovation area. LBP testing by XRF is a non-destructive testing protocol and no paint chip sampling or lead dust wipe sampling was included in the survey. Representative sampling areas (RSAs), consisting of similar components with similar paint color and application based on the age and era of construction, were defined and tested. The limited LBP survey was focused to determine surfaces/components that may require special handling for recycling and disposal as part of the planned renovation/demolition. The XRF analyzer provides immediate positive or negative result readings of the painted surface, which are then recorded on a lead sample log.

3.2 Limited LBP Survey Results

EDI performed a limited LBP assessment and survey of suspect painted surfaces/components of the Truman College Biology Labs. The limited LBP survey was focused to determine surfaces/components that may require special handling for recycling and disposal as part of the planned renovation/demolition. No painted surfaces were identified as lead based paint within the defined renovation areas of the Truman College Biology Labs.

Laboratory results for suspect materials that were identified and sampled are included in Appendix B.

3.3 Applicable Regulations and Guidelines

U.S. Department of Housing and Urban Development (HUD)

The HUD guidelines cover topics such as lead-based paint inspections/risk assessments, abatement options and methods, worker protection, occupant protection, cleanup, clearance, and waste disposal. Except for those parts pertaining exclusively to housing, the guidelines can be used as resource information and methodologies for identifying and abating lead-based paint hazards in buildings.

Environmental Protection Agency (EPA)

EPA regulations and guidelines cover requirements for certification and testing for LBP in residential structures. Work practices include topics such as: lead-based paint inspections/risk assessments; abatement options and methods; cleanup; clearance; and, waste disposal.

Occupational Safety and Health Administration (OSHA) 19 CFR 1910 and 1926

The OSHA Lead Standard does not specifically require testing of bulk or painted surfaces for lead content, whether by XRF or paint chip. However, the standard does require employers to perform an initial exposure determination at paragraph 1926.62(d), using airborne exposure monitoring, historical data, or objective data.

Testing and screening results reported for surfaces assessed and documented in this report are for purposes of reporting the presence of lead-based paint (LBP) as defined by EPA regulations. The results of this report do not provide the information that allows employers to comply with the requirements of the OSHA regulations. Employers must comply with OSHA regulations to define hazards that may be present in the employees work environment in compliance with OSHA regulations.

Illinois Department of Public Health (IDPH)

Illinois Administrative Code 845 (Title 77, Chapter I, and Subchapter P, Part 845) defines lead abatement/mitigation as the remediation of a lead hazard so that the lead bearing substance does not pose an immediate health hazard to humans. A lead hazard is deemed to have been mitigated if the following conditions have been met:

- The surface that is the source of lead is no longer in a condition that produces a hazardous level of leaded chips, flakes, dust or any other form of leaded substances that can be ingested or inhaled by humans; or
- The leaded surface is not accessible to children, the surface coating is covered or the access to the leaded surface is otherwise prevented.

According to the Illinois Resource Conservation and Recovery Act (35 IAC 721), and IEPAs *Information Statement on the Removal of Lead-Based Paint*, workers handling LBP coated building materials must be protected from exposure following OSHA regulations.

U.S. Department of Transportation (DOT)

USDOT and INDOT require lead-based paint waste to be properly containerized and transported by a licensed waste hauler.

4.0 Limited Hazardous Material Building Survey (HAZMAT)

The HAZMAT survey was performed by EDI's experienced and trained professionals. The HAZMAT survey focused on identifying polychlorinated biphenyl (PCB)-containing components, mercury-containing components, chemicals and other hazardous and non-hazardous materials that will require special handling and disposal prior to planned demolition.

EDI performed a visual survey for suspect HAZMAT that are regulated under the United States Environmental Protection Agency (USEPA) Resource Conservation and Recovery Act (RCRA) and Toxic Substances Control Act (TSCA) regulations for HAZMAT management in buildings planned for demolition. Suspect HAZMAT were visually identified, but were not sampled.

As defined by EPA regulations, a universal waste means any of the following types of materials:

- Batteries;
- Pesticides;
- Mercury-containing equipment; and,
- Lamps

Other products and materials installed and stored in the buildings may require special handling, recycling and disposal. The following, although not exhaustive, provides guidance in the types of products observed in the buildings that may require special handling, recycling or disposal as universal waste, special waste, hazardous/non-hazardous waste, and other potentially regulated waste. No samples of these materials were collected during the survey.

Universal Waste Material	Estimated Amount Based on Discovered Amount During Design
Fluorescent Light Ballasts	100
Fluorescent Light Bulbs	200
Other Lighting	10
Thermostats	5
Mercury Switches	0
Electric Transformers	0
Misc. Valves/Gauges (Mercury)	0
Air-Conditioning Units	0
Batteries	0
Sink Traps/Separators	Unable to quantify
Compressors, oils, switches	0
<u>Chemical Hoods and associated ducting— with potential chemical impact</u>	Work is inclusive of the hoods, duct systems, fans, exhaust stacks, and any other components associated with the hoods that may have been impacted by unknown chemicals

4.1 HAZARDOUS MATERIALS REGULATIONS

The following specific regulations apply to handling hazardous and potentially hazardous waste during renovation/demolition.

Illinois Department of Public Health (IDPH), Title, 77 Illinois Administrative Code (77 IAC) Part 725: Salvage Warehouses and Stores for Foods, Alcoholic Liquors, Drugs, Medical Devices and Cosmetics Code

Illinois Environmental Protection Agency (IEPA), Title 35 IAC - Part 721.103: Definition of Hazardous Waste; Part 733: Standards for Universal Waste Management; and, Part 809: Nonhazardous Special Waste Hauling and the Uniform Program.

Occupational Safety and Health Administration (OSHA), 29 Code of Federal Regulations (CFR) Part 1910.120: Hazardous Waste Operations and Emergency Response

US Department of Transportation, 49 CFR Parts 171-177: Hazardous Materials Regulation

U.S. Environmental Protection Agency (USEPA) - 40 CFR 261: Identification and Listing of Hazardous Waste; 40 CFR 268: Land Disposal Restrictions; 40 CFR 273: Standards for universal Waste Management; 40 CFR 761: PCBs Manufacturing, Processing, Distribution in Commerce, and Use Prohibition; and, Toxic Substance Control Act (TSCA) regulations

5.0 Findings and Recommendations

The following is a summary of the findings and recommendations based on the limited hazardous material survey.

5.1 Asbestos Building Survey

ACM Results

Based on the bulk sample laboratory analysis, the following suspect materials were reported to contain asbestos:

Material Description	Material Quantity	Material Location	Laboratory Results
12" x 12" Beige Floor Tile	~ 3,400 SF	Room 2161 Throughout Floor	PC 1.5% - 1.6% Chrysotile
12" x 12" Beige Floor Tile Black Mastic		Room 2161 Throughout Floor	PC 1.0% - PC 3.0% Chrysotile
9" x 9" Beige Floor Tile	~ 300 SF	Room 2161	None Detected (Considered positive due to the adherence of positive black mastic)
9" x 9" Black Mastic		Room 2161	PC 1.0% - PC 1.5% Chrysotile
White Joint Compound	Throughout	Room 2976 SW, 2161 East	PC .49% - PC .75% Chrysotile (Composite)
Vinyl Sheet Goods and Associated Mastic	~ 3,600 SF	Room 2175	PC 2.0% Chrysotile
Transite Panels in Lab Hoods	~200 SF	Throughout Scope of Work Area in Laboratory Fume Hoods	ASSUMED

PC=point count

The drywall compound reported trace amounts of Asbestos; meaning it is not a regulated material per EPA. However, OSHA regulations still apply (for worker protection) and EPA (for proper disposal).

If additional suspect ACMs are identified during the renovation, those materials should be assumed to be positive for asbestos until they can be assessed, sampled, and analyzed by a NVLAP accredited laboratory.

5.2 LBP Building Survey

LBP Results

No painted surfaces were identified as lead based paint within the defined renovation areas of the Truman College Biology Labs.

If any LBP is identified during the course of the project, any LBP painted component that remains in place as part of the renovation should be left with paint intact, and waste must be handled and disposed of in accordance with EPA regulations, inclusive of disposal in a construction and demolition (C&D) landfill, provided the waste of said C&D waste passes EPA-required sampling and analysis requirements.

Testing and screening results reported for surfaces assessed and documented in this report are for purposes of reporting the presence of lead-based paint (LBP) as defined by EPA regulations. The results of this report do not provide the information that allows employers to comply with the requirements of the OSHA regulations. Employers must comply with OSHA regulations to define hazards that may be present in the employees work environment in compliance with OSHA regulations.

Recommended Response Action

Interim Controls – Interim controls temporarily reduce exposure to lead-based paint hazards through repairs, painting, maintenance, special cleaning, occupant protection measures, clearance, and education programs. Interim control methods require safe practices and include:

Paint stabilization – all deteriorated lead-based paint on exterior and interior surfaces must be stabilized through repairs, safe paint removal and repainting.

Treatment for friction and impact surfaces – If abraded lead-based paint is found and associated dust lead levels exceed or are presumed to exceed acceptable levels, the condition creating friction or impact with surfaces with lead-based paint such as those that rub, bind or crush must be corrected.

Treatment for chewable surfaces – If a child under age six has chewed surfaces known or presumed to contain lead-based paint, these surfaces must be enclosed or coated so they are impenetrable.

Lead-contaminated dust control – All horizontal surfaces that are rough, pitted or porous such as bare floors, stairs, windowsills, and window troughs must be covered with a smooth cleanable covering or coating such as metal coil stock, plastic polyurethane or linoleum. Carpeting must be vacuumed, or rugs must be removed and vacuumed on both sides. Vacuuming must be done using HEPA vacuums or equivalent.

Lead-contaminated soil control – If bare soil is lead-contaminated, interim controls that may be used include impermanent surface coverings such as gravel, bark and sod as well as land use controls such as fencing, landscaping and warning signs.

Abatement – Abatement permanently removes or controls lead-based paint and lead-based paint hazards by removing lead-based paint and its dust, or permanently encapsulation or enclosing the lead-based pain, replacing components with lead-based paint and removing or permanently covering lead contaminated soil. Encapsulation and enclosure require ongoing maintenance to check their effectiveness.

6.0 Limitations

The conclusions of this report are EDI's professional opinions, based solely upon visual site observations and interpretations of laboratory analyses, as described in this report. The opinions presented herein apply to the site conditions existing at the time of EDI's investigation and interpretation of current regulations pertaining to current regulations. Therefore, EDI's opinions and recommendations may not apply to future conditions that may exist at the site, which we have not had the opportunity to evaluate. It should be noted that conditions change and that materials constantly degrade. All applicable federal, state and local regulations should always be verified prior to any work that will disturb or dislodge materials confirmed, assumed or presumed to contain hazardous materials.

The results of this report do not provide the information that allows employers to comply with the requirements of the OSHA regulations. Employers must comply with OSHA regulations to define hazards that may be present in the employees work environment in compliance with OSHA regulations.

No selective destruction of interior finishes and surfaces was included in the scope of work for the subject property to access identifiable concealed spaces, utility chases, and enclosed areas.

EDI's assessment was limited to observations, sampling and the analysis of suspect hazardous materials to those as defined here-in observed in accessible portions of the area(s) covered by this survey and based on the client-provided guidance and defined work area. This report does not constitute a comprehensive demolition testing of the entire building and is limited to only areas as defined here-in. Materials in the building that are not considered building materials, are unusual or *de minimis*, or were inaccessible, due to common construction techniques, to the inspector were excluded from the inspection. As a result, additional suspect hazardous materials may be present in inaccessible areas (e.g. between walls, ceiling spaces enclosed by wallboard, interior of fire doors, etc.) of the structure that were not observed during the survey.

This inspection report is designed to assist the client in the understanding of the regulations regarding hazardous materials. However, it should not be used as a substitution for obtaining and familiarizing yourself with, including the compliance of, all federal, state, and local regulations prior to the start of any renovation or demolition activity that will disturb or dislodge hazardous materials.

This report has been prepared for the exclusive use of the intended client, for the specific application to the defined property as addressed in this report. Any additional user of this report shall determine the suitability of the material contained herein for their intended use, and any such user assumes all risks and liability in connection therewith. No claim is made that these findings will remain applicable to future site activities and conditions. Interpretations by any such user from information contained in this report or the drawing of conclusions by any such user from information contained in this report shall be undertaken solely at the risk of said party.

At all times during the performance of the inspection, safety was a priority. Due to the emphasis on safety, there were no injuries, and there were no exposures to either EDI personnel or building occupants.

The survey was conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the environmental profession under similar conditions. No other warranty or guarantee, express or implied, is included or intended in this Report or otherwise.

7.0 References & Definitions

Illinois Department of Public Health (IDPH)

77 Illinois Administrative Code Part 855

Illinois Lead Regulations

77 Illinois Administrative Code 845

United States Environmental Protection Agency (USEPA)

Asbestos Hazard Emergency Response Act (AHERA), 40 CFR, Part 763

National Emission Standards for Hazardous Air Pollutants (NESHAP), Asbestos, 40 CFR, Part 61, November 20, 1990

Guidance for Controlling Asbestos-Containing Materials in Buildings (EPA 560/5-85/024), June 1985

EPA Lead Regulations

40 CFR Part 745

United States Occupational Safety and Health Administration (OSHA)

29 CFR, Parts 1910 and 1926

29 CFR 1926.62

DEFINITIONS

Asbestos-containing material or “ACM” means a material or product that contains more than 1% of asbestos, as determined using the method specified in 40 CFR Part 763, Appendix E to Subpart E, Section I, “Polarized Light Microscopy,” and a material meeting the definition of suspect asbestos-containing material.

Asbestos Containing Products means, according to the U.S. EPA Method 600/R-93/116, Regulated Asbestos Containing Materials (RACM) are those materials found to contain greater than 1% asbestos per volume of bulk material sampled, by PLM. The term is not intended to include *de minimis* or inaccessible materials that do not present a risk of harm to public health and that generally would not be the subject of enforcement actions if brought to the attentions of appropriated regulatory agencies.

Asbestos Types are Chrysotile (white asbestos making up approximately 95% of all asbestos used in the United States), Amosite (brown asbestos making up approximately 5% of all asbestos used in the United States), Crocidolite (blue asbestos making up approximately less than 5% of all asbestos used in the United States), and rarely found in buildings are Anthophyllite, Tremolite & Actinolite.

Category I Non-Friable Asbestos-Containing Material (ACM) means asbestos-containing packing, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 percent asbestos as determined using the method specified in appendix E, subpart E, 40 CFR part 763, section 1, Polarized Light Microscopy.

Category II Non-Friable ACM means any material, excluding Category I nonfriable ACM containing more than 1 percent asbestos as determined using the methods specified in appendix E, subpart E, 40 CFR part 763, section 1, Polarized Light Microscopy that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Demolition means the wrecking or taking out of any load-supporting structural member of a facility together with any related handling operations or the intentional burning (i.e. practice burns) of any facility.

Facility means any institutional, commercial, public, industrial, or residential structure, installation, or building (including any structure, installation, or building containing condominiums or individual dwelling units operated as a residential cooperative, but excluding residential buildings having four or fewer dwelling units); any ship; and any active or inactive waste disposal site. For purposes of this definition, any building, structure, or installation that contains a loft used as a dwelling is not considered a residential structure, installation, or building. Any structure, installation, or building that was previously subject to the Asbestos NESHAP is not excluded, regardless of its current use or function.

Friable Asbestos Material means any material containing more than 1 percent asbestos as determined using the method specified in appendix E, subpart E, 40 CFR part 763 section 1, Polarized Light Microscopy, that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

Homogeneous Area means an area of surfacing materials, thermal surface insulation, or miscellaneous material that is uniform in color and texture and has the same installation date.

Lead-Based Paint

Paint or surface coatings that contain lead levels greater than or equal to 1.0 milligram per square centimeter, or more than 0.5% lead by weight.

Miscellaneous Material means interior building material on structural components, structural members or fixtures, such as floor and ceiling tiles, and does not include surfacing material or thermal system insulation.

Multi-layered Material means a material that has a presence of discrete individual layers. EPA does not regard a sheet of "plasterboard," sheetrock," "wallboard," or "gypsum board" by itself a multi-layered material.

Polarized Light Microscopy means an optical microscopy technique for analyzing bulk samples for asbestos in which the sample is illuminated with polarized light (light which vibrates in only one plane) to distinguish between different types of asbestos fibers by their shape and unique optical properties.

Presumed Asbestos Containing Material (PACM), as defined in 29 CFR 1910 & 1926, means thermal system insulation and surfacing material found in buildings constructed no later than 1980.

Regulated Asbestos-Containing Material (RACM), as defined in 40 CFR 61.141, means

- (a) Friable asbestos material,
- (b) Category I non-friable ACM that has become friable,
- (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or
- (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material during demolition or renovation operations.

Renovation means altering a facility or one or more facility components in any way, including the stripping or removal of Regulated Asbestos Containing Materials (RACM) from a facility component. A renovation could be, but not limited to, any interior renovation or remodel not affecting load-supporting structural members or a roof replacement.

Surfacing means any material that was sprayed-on or troweled-on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes.

Thermal Systems Insulation means material applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat loss or gain, or water condensation, or for other purposes.

Transmission Electron Microscopy means a method of microscopic analysis, which utilizes an electron beam that is focused onto a thin sample. As the beam penetrates (transmits) through the sample, the difference densities produce an image on a fluorescent screen from which samples can be identified and counted. Also, used for analyzing air samples for asbestos.

Key to Common Asbestos Related Abbreviations

- ACM** Asbestos-Containing Material
- ACBM** Asbestos-Containing Building Material
- AHERA**.....Asbestos Hazard Emergency Response Act
- CFR**Code of Federal Regulations
- DOT** Department of Transportation
- EPA** Environmental Protection Agency
- FR** Federal Register
- HEPA** High Efficiency Particulate Air
- HVAC** Heating, Ventilating and Air Conditioning Systems
- NESHAP**..... National Emission Standards for Hazardous Air Pollutants



NIOSHNational Institute of Occupational Safety and Health
NISTNational Institute for Standards and Technology
NVLAPNational Voluntary Laboratory Accreditation Program
OSHAOccupational Safety and Health Administration
PACMPresumed Asbestos Containing Material
PLMPolarized Light Microscopy
RACMRegulated Asbestos Containing Material
TEMTransmission Electron Microscopy
TSIThermal Systems Insulation

APPENDIX A

Table I - Asbestos Laboratory Results, Laboratory Certification and Chain-of-Custody

CERTIFICATE OF ANALYSIS

Client: Environmental Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 1/17/2020
Report No.: 607578 - PLM
Project: Truman - 1145 W. Wilson, Chicago IL
Project No.:

Client: ENV374

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6948478	Analyst Observation: Off-White Spray-On Fireproofing With Vermiculite	Location: Room 2161
Client No.: TC-1	Client Description: Spray On Fireproofing	Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Cellulose 15 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 70

Surfacing material contains greater than 10% vermiculite.

Lab No.: 6948479	Analyst Observation: Off-White Spray-On Fireproofing With Vermiculite	Location: Room 2175
Client No.: TC-2	Client Description: Spray On Fireproofing	Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Cellulose 15 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 70

Surfacing material contains greater than 10% vermiculite.

Lab No.: 6948480	Analyst Observation: Off-White Spray-On Fireproofing With Vermiculite	Location: Room 2960
Client No.: TC-3	Client Description: Spray On Fireproofing	Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Cellulose 15 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 70

Surfacing material contains greater than 10% vermiculite.

Lab No.: 6948481	Analyst Observation: Brown Cove Base	Location: Room 2161 East
Client No.: TC-4	Client Description: Brown Baseboard And Mastic	Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 6948481(L2)	Analyst Observation: Brown Mastic	Location: Room 2161 East
Client No.: TC-4	Client Description: Brown Baseboard And Mastic	Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/10/2020
Date Analyzed: 01/17/2020
Signature:
Analyst: Sarah Lipiecki

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Environmental Design International
33 W Monroe, Suite 1825
Chicago IL 60603


Client: ENV374


Report Date: 1/17/2020
Report No.: 607578 - PLM
Project: Truman - 1145 W. Wilson, Chicago IL
Project No.:

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6948482 Client No.: TC-5	Analyst Observation: Brown Cove Base Client Description: Brown Baseboard And Mastic	Location: Central Lab West Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 6948482(L2) Client No.: TC-5	Analyst Observation: Brown Mastic Client Description: Brown Baseboard And Mastic	Location: Central Lab West Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 6948483 Client No.: TC-6	Analyst Observation: Brown Cove Base Client Description: Brown Baseboard And Mastic	Location: Central Lab-Central South Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 6948483(L2) Client No.: TC-6	Analyst Observation: Brown Mastic Client Description: Brown Baseboard And Mastic	Location: Central Lab-Central South Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 6948484 Client No.: TC-7	Analyst Observation: White Drywall Client Description: Drywall And Joint Compound	Location: Room 2161 East Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 7 Cellulose	<u>Percent Non-Fibrous Material:</u> 93
Lab No.: 6948484(L2) Client No.: TC-7	Analyst Observation: White Joint Compound Client Description: Drywall And Joint Compound	Location: Room 2161 East Facility:
<u>Percent Asbestos:</u> PC 2.8 Chrysotile	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 97.2

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Date Received: 1/10/2020
Date Analyzed: 01/17/2020
Signature: 
Analyst: Sarah Lipiecki

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Environmental Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 1/17/2020
Report No.: 607578 - PLM
Project: Truman - 1145 W. Wilson, Chicago IL
Project No.:

Client: ENV374

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6948485
Client No.: TC-8
Analyst Observation: White Drywall
Client Description: Drywall And Joint Compound
Location: Room 2175 SE
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 5 Cellulose 95

Lab No.: 6948485(L2)
Client No.: TC-8
Analyst Observation: White Joint Compound
Client Description: Drywall And Joint Compound
Location: Room 2175 SE
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
PC 3.6 Chrysotile None Detected 96.4

Lab No.: 6948486
Client No.: TC-9
Analyst Observation: White Drywall
Client Description: Drywall And Joint Compound
Location: Room 2976 SW
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 5 Cellulose 95

Lab No.: 6948486(L2)
Client No.: TC-9
Analyst Observation: White Joint Compound
Client Description: Drywall And Joint Compound
Location: Room 2976 SW
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
PC 4.9 Chrysotile None Detected 95.1

Lab No.: 6948487
Client No.: TC-10
Analyst Observation: White Ceiling Tile
Client Description: 2'x5' Solid Ceiling Tile
Location: Room 2161
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 10 Cellulose 70
20 Fibrous Glass

Lab No.: 6948488
Client No.: TC-11
Analyst Observation: White Ceiling Tile
Client Description: 2'x5' Solid Ceiling Tile
Location: Room 2175
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 10 Cellulose 70
20 Fibrous Glass

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/10/2020
Date Analyzed: 01/17/2020
Signature:
Analyst: Sarah Lipiecki

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Environmental Design International
33 W Monroe, Suite 1825
Chicago IL 60603


Client: ENV374


Report Date: 1/17/2020
Report No.: 607578 - PLM
Project: Truman - 1145 W. Wilson, Chicago IL
Project No.:

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6948489 Client No.: TC-12	Analyst Observation: White Ceiling Tile Client Description: 2'x5' Solid Ceiling Tile	Location: Room 2976 Facility:
Percent Asbestos: <i>None Detected</i>	Percent Non-Asbestos Fibrous Material: 10 Cellulose 20 Fibrous Glass	Percent Non-Fibrous Material: 70
Lab No.: 6948490 Client No.: TC-13	Analyst Observation: Beige Floor Tile Client Description: Beige 12"x12" Ft And Mastic	Location: Room 2161 South Central Facility:
Percent Asbestos: <i>PC 1.6 Chrysotile</i>	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 98.4
Lab No.: 6948490(L2) Client No.: TC-13	Analyst Observation: Black Mastic Client Description: Beige 12"x12" Ft And Mastic	Location: Room 2161 South Central Facility:
Percent Asbestos: <i>PC 3 Chrysotile</i>	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 97
Lab No.: 6948491 Client No.: TC-14	Analyst Observation: Beige Floor Tile Client Description: Beige 12"x12" Ft And Mastic	Location: Room 2161 East Facility:
Percent Asbestos: <i>PC 1.5 Chrysotile</i>	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 98.5
Lab No.: 6948491(L2) Client No.: TC-14	Analyst Observation: Black Mastic Client Description: Beige 12"x12" Ft And Mastic	Location: Room 2161 East Facility:
Percent Asbestos: <i>PC 3 Chrysotile</i>	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 97
Lab No.: 6948492 Client No.: TC-15	Analyst Observation: Beige Floor Tile Client Description: Beige 12"x12" Ft And Mastic	Location: Room 2161 West Facility:
Percent Asbestos: <i>PC 1.5 Chrysotile</i>	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 98.5

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/10/2020
Date Analyzed: 01/17/2020
Signature: 
Analyst: Sarah Lipiecki

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Environmental Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 1/17/2020
Report No.: 607578 - PLM
Project: Truman - 1145 W. Wilson, Chicago IL
Project No.:

Client: ENV374

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6948492(L2)	Analyst Observation: Black Mastic	Location: Room 2161 West
Client No.: TC-15	Client Description: Beige 12"x12" Ft And Mastic	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 3 Chrysotile</i>	None Detected	97

Lab No.: 6948493	Analyst Observation: Beige Floor Tile	Location: Wets Side 2161
Client No.: TC-16	Client Description: 9"x9" Beige Floor Tile And Mastic	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6948493(L2)	Analyst Observation: Black/Tan Mastic	Location: Wets Side 2161
Client No.: TC-16	Client Description: 9"x9" Beige Floor Tile And Mastic	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1 Chrysotile</i>	None Detected	99

Lab No.: 6948493(L3)	Analyst Observation: Tan Leveling Compound	Location: Wets Side 2161
Client No.: TC-16	Client Description: 9"x9" Beige Floor Tile And Mastic	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	1 Cellulose	99

Lab No.: 6948494	Analyst Observation: Beige Floor Tile	Location: Wets Side 2161
Client No.: TC-17	Client Description: 9"x9" Beige Floor Tile And Mastic	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6948494(L2)	Analyst Observation: Black/Tan Mastic/Leveling Compound	Location: Wets Side 2161
Client No.: TC-17	Client Description: 9"x9" Beige Floor Tile And Mastic	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1.5 Chrysotile</i>	1 Cellulose	97.5

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/10/2020
Date Analyzed: 01/17/2020
Signature:
Analyst: Sarah Lipiecki

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Environmental Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Client: ENV374

Report Date: 1/17/2020
Report No.: 607578 - PLM
Project: Truman - 1145 W. Wilson, Chicago IL
Project No.:

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6948495 **Analyst Observation:** Beige Floor Tile **Location:** Wets Side 2161
Client No.: TC-18 **Client Description:** 9"x9" Beige Floor Tile And Mastic **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 6948495(L2) **Analyst Observation:** Black/Tan Mastic/Leveling Compound **Location:** Wets Side 2161
Client No.: TC-18 **Client Description:** 9"x9" Beige Floor Tile And Mastic **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
PC 1.5 Chrysotile 1 Cellulose 97.5


Lab No.: 6948496 **Analyst Observation:** White Vinyl Sheet Flooring **Location:** Room 2960 SW
Client No.: TC-19 **Client Description:** Vinyl Sheet Flooring **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

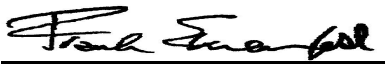
Lab No.: 6948496(L2) **Analyst Observation:** Off-White Mastic **Location:** Room 2960 SW
Client No.: TC-19 **Client Description:** Vinyl Sheet Flooring **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 6948497 **Analyst Observation:** White Vinyl Sheet Flooring **Location:** Room 2960 NW
Client No.: TC-20 **Client Description:** Vinyl Sheet Flooring **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 6948497(L2) **Analyst Observation:** Off-White Mastic **Location:** Room 2960 NW
Client No.: TC-20 **Client Description:** Vinyl Sheet Flooring **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/10/2020
Date Analyzed: 01/17/2020
Signature: 
Analyst: Sarah Lipiecki

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Environmental Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Client: ENV374

Report Date: 1/17/2020
Report No.: 607578 - PLM
Project: Truman - 1145 W. Wilson, Chicago IL
Project No.:

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6948498 Client No.: TC-21 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White Vinyl Sheet Flooring Client Description: Vinyl Sheet Flooring <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Room 2175 Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 6948498(L2) Client No.: TC-21 <u>Percent Asbestos:</u> <i>PC 2 Chrysotile</i>	Analyst Observation: Black Mastic Client Description: Vinyl Sheet Flooring <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Room 2175 Facility: <u>Percent Non-Fibrous Material:</u> 98
Lab No.: 6948499 Client No.: TC-22 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Grey Cove Base Client Description: Grey Baseboard And Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Room 2960 SW Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 6948499(L2) Client No.: TC-22 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Off-White Mastic Client Description: Grey Baseboard And Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Room 2960 SW Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 6948499(L3) Client No.: TC-22 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White Joint Compound Client Description: Grey Baseboard And Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Room 2960 SW Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 6948500 Client No.: TC-23 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Grey Cove Base Client Description: Grey Baseboard And Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Room 2960 NW Facility: <u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/10/2020
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Signature:
Analyst: Sarah Lipiecki

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Environmental Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 1/17/2020
Report No.: 607578 - PLM
Project: Truman - 1145 W. Wilson, Chicago IL
Project No.:

Client: ENV374

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6948500(L2)	Analyst Observation: Off-White Mastic	Location: Room 2960 NW
Client No.: TC-23	Client Description: Grey Baseboard And Mastic	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6948500(L3)	Analyst Observation: White Joint Compound	Location: Room 2960 NW
Client No.: TC-23	Client Description: Grey Baseboard And Mastic	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


Lab No.: 6948500(L4)	Analyst Observation: Off-White Joint Compound	Location: Room 2960 NW
Client No.: TC-23	Client Description: Grey Baseboard And Mastic	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

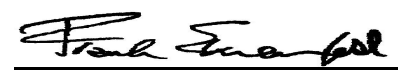
Lab No.: 6948501	Analyst Observation: Grey Cove Base	Location: Room 2175 NE
Client No.: TC-24	Client Description: Grey Baseboard And Mastic	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6948501(L2)	Analyst Observation: Off-White Mastic	Location: Room 2175 NE
Client No.: TC-24	Client Description: Grey Baseboard And Mastic	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6948501(L2)	Analyst Observation: Off-White Mastic	Location: Room 2175 NE
Client No.: TC-24	Client Description: Grey Baseboard And Mastic	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/10/2020
Date Analyzed: 01/17/2020
Signature: 
Analyst: Sarah Lipiecki

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Environmental Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Client: ENV374

Report Date: 1/17/2020
Report No.: 607578 - PLM
Project: Truman - 1145 W. Wilson, Chicago IL
Project No.:

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6948501(L3)	Analyst Observation: White Joint Compound	Location: Room 2175 NE
Client No.: TC-24	Client Description: Grey Baseboard And Mastic	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 6948502	Analyst Observation: White Wrap	Location: Room 2960F
Client No.: TC-25	Client Description: Hard Pack Fitting (TSI)	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	50 Cellulose	50

Lab No.: 6948502(L2)	Analyst Observation: Off-White Insulation	Location: Room 2960F
Client No.: TC-25	Client Description: Hard Pack Fitting (TSI)	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	15 Fibrous Glass	85

Lab No.: 6948503	Analyst Observation: White Wrap	Location: South
Client No.: TC-26	Client Description: Hard Pack Fitting (TSI)	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	50 Cellulose	50

Lab No.: 6948503(L2)	Analyst Observation: Off-White Insulation	Location: South
Client No.: TC-26	Client Description: Hard Pack Fitting (TSI)	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	15 Fibrous Glass	85

Lab No.: 6948504	Analyst Observation: White Wrap	Location: SE
Client No.: TC-27	Client Description: Hard Pack Fitting (TSI)	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	50 Cellulose	50

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/10/2020
Date Analyzed: 01/17/2020
Signature:
Analyst: Sarah Lipiecki

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Environmental Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Client: ENV374

Report Date: 1/17/2020
Report No.: 607578 - PLM
Project: Truman - 1145 W. Wilson, Chicago IL
Project No.:

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6948504(L2) **Analyst Observation:** Off-White Insulation **Location:** SE
Client No.: TC-27 **Client Description:** Hard Pack Fitting (TSI) **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected 15 Fibrous Glass 85

Lab No.: 6948505 **Analyst Observation:** Black Countertop **Location:** Room 2175 West
Client No.: TC-28 **Client Description:** Black Sink Countertop **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected None Detected 100


Lab No.: 6948505(L2) **Analyst Observation:** Black Caulk **Location:** Room 2175 West
Client No.: TC-28 **Client Description:** Black Sink Countertop **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected None Detected 100

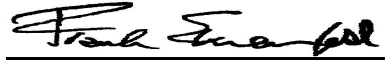
Lab No.: 6948506 **Analyst Observation:** Black Countertop **Location:** Room 2175 SW
Client No.: TC-29 **Client Description:** Black Sink Countertop **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected None Detected 100

Lab No.: 6948507 **Analyst Observation:** Black Countertop **Location:** Room 2960 East
Client No.: TC-30 **Client Description:** Black Sink Countertop **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected None Detected 100

Lab No.: 6948507(L2) **Analyst Observation:** Black Caulk **Location:** Room 2960 East
Client No.: TC-30 **Client Description:** Black Sink Countertop **Facility:**
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:** **Percent Non-Fibrous Material:**
None Detected None Detected 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/10/2020
Date Analyzed: 01/17/2020
Signature: 
Analyst: Sarah Lipiecki

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Environmental Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Client: ENV374

Report Date: 1/17/2020
Report No.: 607578 - PLM
Project: Truman - 1145 W. Wilson, Chicago IL
Project No.:

Appendix to Analytical Report

Customer Contact: Jose Aguilera

Method: 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, and USEPA 600, R93-116 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: wchampion@iatl.com

iATL Account Representative: Cassie Doherty

Sample Login Notes: See Batch Sheet Attached

Sample Matrix: Bulk Building Materials

Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

CERTIFICATE OF ANALYSIS

Client: Environmental Design International
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Project No.:

Client: ENV374

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1) **Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.

2) **Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

CERTIFICATE OF ANALYSIS

Client: Environmental Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 1/17/2020
Report No.: 607578 - PLM
Project: Truman - 1145 W. Wilson, Chicago IL
Project No.:

Client: ENV374

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

*With advance notice and confirmation by the laboratory.

**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).



Environmental Design
International inc.

33 W. Monroe Street, Suite 1825
Chicago, Illinois 60603
Phone: 312-345-1400
Fax: 312-345-0529

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No. PAUL KYBARIAS /		2. Sampling Site Address/Contact Telephone No. TRUMAN - 1145 W. WILSON, CHICAGO IL		Indicate Analysis Requested		Laboratory Number							
3. Sampled by (Signature) <i>[Signature]</i>		4. # of Samples in Shipment 30		5. Date of Sample Shipment 1-9-20			6. Date Results Needed 5 DAY						
Item No	Sample Number	Sample Location/Description	COMP	GRAB	Matrix	Method Preserved		Sampling	VOLUME (L)	TIME (Minutes)	# of Containers		
1	TC-1	Spray on Fireproofing RM 2161											
2	2	" "											
3	3	" "											
4	4	Brown Baseboard + Mastic RM 2161 EAST											
5	5	" " Central LBS web											
6	6	" " Central LBS - central south											
7	7	Drywall joint compound RM 2161 east											
8	8	" " RM 2175 SE											
9	9	" " RM 2976 SW											
10	10	2x5' Solis ceiling tile RM 2161											
Time In:			Time Out:			Total Hours:		Signature:					
Released by (Signature) <i>[Signature]</i>		Date/Time Released 1-9-20		Delivery Method FED EX		Released by (Signature)		Date/Time Released		Company/Agency Affiliation		Condition/Noted	
11720		11720				To Archive/Disposal				JAN 10 2020			

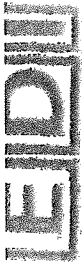
Comments:

PA. KYBARIAS 117120

White - Client/Customer Copy
Yellow - Billing Copy
Pink - In-House File Copy

Report Number:

Page 1 of 3



Environmental Design
International inc.

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 W. Monroe Street, Suite 1825
Chicago, Illinois 60603
Phone: 312-345-1400
Fax: 312-345-0529

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.		2. Sampling Site Address/Contact Telephone No.										Indicate Analysis Requested		Laboratory Number						
PAUL HY BANTAS / 30		TRUMAN - 1145 W. Wilson, Chicago, IL																		
3. Sampled by (Signature)		4. # of Samples in Shipment		5. Date of Sample Shipment			6. Date Results Needed					# of Containers		TIME (Minutes)		VOLUME (L)				
[Signature]		30		1-9-20			5 DAY													
Item No	Sample Number	Sample Location/Description		COMP	GRAB	WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ O ₂	ICE		NONE	OTHER	Date	Time	
1	11	2'x5' studio ceiling tile															1-9			6943485
2	12	16" RM 2976															1-9			6943489
3	13	2'x12" FT + MASTIC															1-9			6943490
4	14	Beige RM 2161 South control															1-9			6943491
5	15	RM 2161 EAST															1-9			6943492
6	16	9'x9' Beige FT + MASTIC															1-9			6943493
7	17	West side 2161															1-9			6943494
8	18	Vinyl Sheet + leaning															1-9			6943495
9	19	RM 2960 SW															1-9			6943496
10	20	RM 2960 NW															1-9			6943497
Time In:		Time Out:		Total Hours:		Signature:					Print Name:									
Released by (Signature)		Date/Time Released		Delivery Method		Released by (Signature)					Date/Time Released					Company/Agency Affiliation		Condition Noted		
[Signature]		1-9-20		FED EX																

Comments:

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CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 W. Monroe Street, Suite 1825
Chicago, Illinois 60603
Phone: 312-345-1400
Fax: 312-345-0529

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No. PAUL KHBANTOS /		2. Sampling Site Address/Contact Telephone No. TRUMAN - 1145 W. Wilson, Chicago IL										Indicate Analysis Requested						
3. Sampled by (Signature) <i>[Signature]</i>		4. # of Samples in Shipment 30		5. Date of Sample Shipment 1-9-20										6. Date Results Needed 5 DAY				
Item No.	Sample Number	Sample Location/Description	Matrix						Method Preserved				SAMPLING Date	TIME (Minutes)	VOLUME (L)	# of Containers	Laboratory Number	
			WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ O ₂	ICE	NONE						OTHER
1	TC-21	Vinyl Sheet flooring RM 2175													✓			6943498
2	22	Grey BASEBOARD MASTIC RM 2160 SW													✓			6943499
3	23	4" RM 2160 NW													✓			6943500
4	24	4" RM 2175 NE													✓			6943501
5	25	HARD pack fitting (TSI) RM 2160 F													✓			6943502
6	26	4" south													✓			6943503
7	27	4" SE													✓			6943504
8	28	BACKSINK Counter top RM 2175 west													✓			6943505
9	29	4" RM 2175 SW													✓			6943506
10	30	4" RM 2160 east													✓			6943507
Time In:		Time Out:		Total Hours:		Signature:										Print Name:		
Released by (Signature) <i>[Signature]</i>		Date/Time Released 1-9-20		Delivery Method FED EX		Released by (Signature)				Date/Time Released				Company/Agency Affiliation		Condition Noted		
To Archive/Disposal																		

Comments:

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Report Number:

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APPENDIX B

Lead Based Paint XRF Results



Index	Time	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	SITE	FLOOR	INSPECTOR	ROOM	Results
1	2020-01-09 08:16										
2	2020-01-09 08:35			calibrate			Truman college	SECOND	PAUL KYBARTAS		Null
3	2020-01-09 08:36			calibrate			Truman college	SECOND	PAUL KYBARTAS		Positive
4	2020-01-09 08:36			calibrate			Truman college	SECOND	PAUL KYBARTAS		Positive
5	2020-01-09 08:36			calibrate			Truman college	SECOND	PAUL KYBARTAS		Positive
6	2020-01-09 11:05	WALL	DRYWALL	A	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
7	2020-01-09 11:06	WALL	DRYWALL	B	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
8	2020-01-09 11:06	WALL	DRYWALL	C	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
9	2020-01-09 11:07	WALL	DRYWALL	D	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
10	2020-01-09 11:07	WALL	DRYWALL	D	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
11	2020-01-09 11:07	WALL	DRYWALL	C	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
12	2020-01-09 11:08	WALL	DRYWALL	C	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
13	2020-01-09 11:09	DOOR	METAL	A	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
14	2020-01-09 11:09	DOOR	METAL	A	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
15	2020-01-09 11:09	DOOR FRAME	METAL	A	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
16	2020-01-09 11:10	DOOR FRAME	METAL	D	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
17	2020-01-09 11:10	DOOR FRAME	METAL	D	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
18	2020-01-09 11:10	DOOR	WOOD	D	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
19	2020-01-09 11:11	DOOR	WOOD	D	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
20	2020-01-09 11:11	DOOR	WOOD	B	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
21	2020-01-09 11:12	DOOR FRAME	METAL	B	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
22	2020-01-09 11:12	DOOR FRAME	METAL	D	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
23	2020-01-09 11:13	DOOR	WOOD	D	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
24	2020-01-09 11:13	WINDOW FRAME	METAL	B	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
25	2020-01-09 11:14	WINDOW FRAME	METAL	B	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
26	2020-01-09 11:14	WINDOW TRANSOM	METAL	B	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
27	2020-01-09 11:14	WINDOW TRANSOM	METAL	B	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2960	Negative
28	2020-01-09 11:16	WALL	DRYWALL	A	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2175	Negative
29	2020-01-09 11:16	WALL	DRYWALL	A	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2175	Negative
30	2020-01-09 11:16	WALL	DRYWALL	B	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2175	Negative
31	2020-01-09 11:17	WALL	DRYWALL	B	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2175	Negative
32	2020-01-09 11:17	WALL	DRYWALL	C	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2175	Negative
33	2020-01-09 11:17	WALL	DRYWALL	C	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2175	Negative
34	2020-01-09 11:18	WALL	DRYWALL	D	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2175	Negative



Index	Time	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	SITE	FLOOR	INSPECTOR	ROOM	Results
35	2020-01-09 11:18	WALL	DRYWALL	D	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2175	Negative
36	2020-01-09 11:19	DOOR FRAME	METAL	A	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2175	Negative
37	2020-01-09 11:19	DOOR FRAME	METAL	A	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2175	Negative
38	2020-01-09 11:19	DOOR	WOOD	A	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2175	Negative
39	2020-01-09 11:20	DOOR	WOOD	B	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2175	Negative
40	2020-01-09 11:20	DOOR	WOOD	B	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2175	Negative
41	2020-01-09 11:21	DOOR FRAME	METAL	B	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2175	Negative
42	2020-01-09 11:21	DOOR FRAME	METAL	B	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2175	Negative
43	2020-01-09 11:22	DOOR FRAME	METAL	A	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2976	Negative
44	2020-01-09 11:22	DOOR FRAME	METAL	A	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2976	Negative
45	2020-01-09 11:23	DOOR	WOOD	A	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2976	Negative
46	2020-01-09 11:23	DOOR	WOOD	D	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2976	Negative
47	2020-01-09 11:24	DOOR	WOOD	D	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2976	Negative
48	2020-01-09 11:24	DOOR FRAME	METAL	D	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2976	Negative
49	2020-01-09 11:25	DOOR FRAME	METAL	D	INTACT	BROWN	Truman college	SECOND	PAUL KYBARTAS	2976	Negative
50	2020-01-09 11:26	WALL	DRYWALL	A	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2976	Negative
51	2020-01-09 11:26	WALL	DRYWALL	B	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2976	Negative
52	2020-01-09 11:26	WALL	DRYWALL	B	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2976	Negative
53	2020-01-09 11:27	WALL	DRYWALL	C	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2976	Negative
54	2020-01-09 11:27	WALL	DRYWALL	C	INTACT	BEIGE	Truman college	SECOND	PAUL KYBARTAS	2976	Negative
55	2020-01-09 11:48			calibrate			Truman college		PAUL KYBARTAS		Positive
56	2020-01-09 11:48			calibrate			Truman college		PAUL KYBARTAS		Positive
57	2020-01-09 11:49			calibrate			Truman college		PAUL KYBARTAS		Positive

APPENDIX C

EDI Employee Certifications



**ASBESTOS
PROFESSIONAL
LICENSE**

ID NUMBER	ISSUED	EXPIRES
100 - 08451	4/4/2019	05/15/2020

PAUL S KYBARTAS
7663 WALNUT AVENUE
WOODRIDGE, IL 60517

Environmental Health



ENDORSEMENTS

TC EXPIRES

INSPECTOR	3/8/2020
MANAGEMENT PLANNER	2/28/2020
PROJECT MANAGER	11/1/2019
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.

2019



OCCUPATIONAL TRAINING & SUPPLY, INC.
7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900 ♦ www.otssafety.com

Asbestos Building Inspector Refresher

Occupational Training & Supply, Inc. certifies that

Paul Steven Kybartas

has successfully completed the Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. The course is accredited by the Illinois Department of Public Health and Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency response Act (AHERA) and TSCA Title II.

Course Date: 3/8/2019

Exam Date: 3/8/2019

Expiration Date: 3/8/2020

Certificate Number: BIR1903080794

Kathy DeSalvo, Director



**LEAD RISK
ASSESSOR LICENSE**

LEAD ID	ISSUED	EXPIRES
006379	2/1/2019	1/31/2020

**Paul S Kybartas
7663 Walnut Ave
Woodridge, IL 60517**



ILLINOIS LEAD PROGRAM
Environmental Health

2017



OCCUPATIONAL TRAINING & SUPPLY, INC.

7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900 ♦ www.otssafety.com

Lead Risk Assessor Refresher

Occupational Training & Supply, Inc. certifies that

Paul Steven Kybartas

has successfully completed the Lead Risk Assessor Refresher course and has passed the competency exam with a minimum score of 70%.
This course is accredited by the Illinois Department of Public Health in accordance with the Illinois Lead Poisoning Prevention Code.

Course Date: 2/16/2017

Exam Date: 2/16/2017

Expiration Date: 2/16/2020

Certificate Number: LRAR1702160644

Kathy DeSalvo, Director