Asbestos Survey

Sharonville Fire Station 87
11210 Reading Road
Sharonville, Ohio 45241

May 13, 2019

Terracon Project No. N1197100

Prepared for:
City of Sharonville Fire Department
11210 Reading Road
Sharonville, Ohio 45241

Prepared by:
Terracon Consultants, Inc.
611 Lunken Park Drive
Cincinnati, Ohio 45226

May 13, 2019

City of Sharonville
Fire Department
11210 Reading Road
Sharonville, Ohio 45241

Attn: Mr. Kirk Mousa – Fire Chief
P: 513-563-0252
E: kmousa@cityofsharonville.com

Re: Asbestos Survey Report
Sharonville Fire Station 87
11210 Reading Road
Sharonville, Ohio 45241
Terracon Project No. N1197100

Dear Mr. Mousa:

Terracon Consultants, Inc. (Terracon) is pleased to submit the attached report for the above-referenced site to City of Sharonville (Client). The purpose of this report is to present the results of an asbestos survey which was performed at the site on April 26, 2019 in general accordance with our proposal April 1, 2019. We understand that this survey was requested for the purpose of potential planned renovations to the Sharonville Fire Station 87.

Asbestos-containing materials (ACMs) were identified as a result of the survey. Please see the attached report for detail.

Terracon appreciates the opportunity to provide this service to City of Sharonville. If you have any questions regarding this report please contact the undersigned at 513-321-5816.

Sincerely,
Terracon Consultants, Inc.

Joshua Vogel
Project Manager
OH AHES #35291

Joseph A. Tussey, CIHMM
Senior Associate/Group Manager
Ohio AHES #32388

TABLE OF CONTENTS

EXECUTIVE SUMMARY ..... **i**
1.0 INTRODUCTION **1**
1.1 Project Objective 1
1.2 Reliance 1
2.0 BUILDING DESCRIPTION **2**
3.0 FIELD ACTIVITIES **2**
3.1 Visual Assessment 2
3.2 Physical Assessment 2
3.3 Sample Collection 2
3.4 Sample Analysis 3
4.0 REGULATORY OVERVIEW **3**
5.0 FINDINGS AND RECOMMENDATIONS **4**
6.0 LIMITATIONS/GENERAL COMMENTS **6**

APPENDIX A IDENTIFIED ASBESTOS-CONTAINING MATERIALS BY HOMOGENEOUS AREA (HA)

APPENDIX B ASBESTOS SURVEY SAMPLE & RESULTS SUMMARY

APPENDIX C ASBESTOS ANALYTICAL LABORATORY DATA

APPENDIX D LICENSES AND CERTIFICATIONS

APPENDIX E PHOTOS

APPENDIX F SAMPLE LOCATION DRAWINGS

EXECUTIVE SUMMARY

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of the Sharonville Fire Station 87 located at 11210 Reading Road in Sharonville, Ohio. The survey was requested for the purpose of potential planned renovations. The United States Environmental Protection Agency (USEPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) regulation 40 CFR Part 61, Subpart M and the state-equivalent NESHAP regulation requires an asbestos survey be conducted prior to renovation and demolition projects. The survey included identifying and sampling suspect asbestos-containing materials (ACM) for laboratory analysis, and providing information regarding the identity, location, condition, and approximate quantities of ACM in accessible interior and exterior building components.

The survey was performed on April 26, 2019 by USEPA-accredited asbestos building inspectors / Ohio Environmental Protection Agency (OEPA)-certified Asbestos Hazard Evaluation Specialists (AHES) in general accordance with our proposal dated April 1, 2019, and the sampling protocols established in 40 Code of Federal Regulations (CFR) Part 763, Subpart E, known as the Asbestos Hazard Emergency Response Act (AHERA). Terracon collected a total of 113 bulk samples from 37 homogeneous areas of suspect ACM.

Based on the results of laboratory analysis by polarized light microscopy (PLM) and point count (PC; where applicable) in regard to the samples collected, the materials listed below were identified to contain asbestos.

Material Description	Material Location(s)	% and Type Asbestos	EPA NESHAP Material Classification	Estimated Quantity*
Exterior White Vent Caulking	Associated with Vent at the Southeast Corner of Garage Roof	1.2% Chrysotile	Category II Non-Friable	5 Square Feet (SF)
Exterior Brown Wall Expansion Caulking	Exterior Wall	1.3% Chrysotile	Category II Non-Friable	75 SF
Brown Exterior Door Caulking	Hatch Door Frame (exterior side) to Garage Roof	1.4% Chrysotile	Category II Non-Friable	2 SF
Black Mastic Beneath Non-Asbestos-Containing 12” x 12” White Floor Tile with Grey Flashes	Floor Throughout Facility	1.5% Chrysotile	Category I Non-Friable	3,100 SF
Black Interior Window Frame Caulking	Garage Southeast Window	5.0% Chrysotile	Category II Non-Friable	1 Window or 5 SF
Interior White Wall Expansion Caulking	Interior Corners of Garage Walls	2.3% Chrysotile	Category II Non-Friable	50 SF
White Interior Door Frame Caulking	Door Frames Throughout Interior of the Facility	1.3% Chrysotile	Category II Non-Friable	30 SF

Material Description	Material Location(s)	% and Type Asbestos	EPA NESHAP Material Classification	Estimated Quantity*
12" x 12" Tan Floor Tile and Black Mastic	1st Floor Hallway Closet Floor	Floor Tile: 1.2% Chrysotile, Mastic: 1.3% Chrysotile	Category I Non-Friable	50 SF
White Pipe Fitting Insulation Associated with Non-Asbestos-Containing Fiberglass Insulated Water Lines	2nd Floor Laundry Room, Mechanical room, and Above Ceiling Tiles Throughout Facility	7.3% Chrysotile	Regulated Asbestos-Containing Material (RACM)	~150 Fittings or ~150 Linear Feet (LF) (Additional Quantities May Be Concealed in Walls and Above Ceilings)
Brown Mastic Behind Non-Asbestos-Containing 4" Yellow Cove Base	2nd Floor IT Closet – Wall Bottoms	0.25% Chrysotile	Not regulated by EPA NESHAP (<1% asbestos By PC); however, regulation under OSHA 1926.1101 if disturbed	25 SF
Interior White Stair Stringer Caulking	Along Juncture of Wall and Stair Stringer - Steps to 2nd Floor	1.3% Chrysotile	Category II Non-Friable	15 SF
Brown Exterior Door Frame Caulking	Exterior Side of Entry Doors to Building	0.25% Chrysotile	Not regulated by EPA NESHAP (<1% asbestos By PC); however, regulation under OSHA 1926.1101 if disturbed	6 Doors or 12 SF
Grey Exterior Window Frame Caulking	Exterior Side of Window Frames	1.3% Chrysotile	Category II Non-Friable	18 Windows or 90 SF

***Estimated quantities** are based on a cursory field evaluation, and actual quantities may vary significantly, especially if ACMs are present in hidden and/or inaccessible areas not evaluated as part of this survey. This is not a bidding document, contractors must make their own judgement on actual quantities they believe to be present.

A summary of materials sampled including analytical results is included in Appendix B. The laboratory analytical report is included as Appendix C. A photo log with example photos of identified ACM is included as Appendix E.

If the above identified ACMs (>1% asbestos) will be impacted by the renovation, a state-licensed asbestos abatement contractor must be retained to properly remove, handle, and disposed of those ACMs prior to renovation. Please note that materials containing 1% or less asbestos are not regulated by EPA NESHAP; however, they are regulated under the Occupational Safety and Health Administration (OSHA). Terracon recommends that any materials containing 1% or less asbestos still be removed (if to be impacted by the renovation), handled, and disposed properly by a state-licensed asbestos abatement contractor with accredited asbestos workers. For any ACMs not impacted by renovation, it is recommended that they be managed in-place in good condition with the development and implementation of an asbestos Operations and Maintenance (O&M) Plan.

ASBESTOS SURVEY
Sharonville Fire Station 87
11210 Reading Road
Sharonville, Ohio 45241

Terracon Project No. N1197100
May 13, 2019

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of the Sharonville Fire Station 87 located at 11210 Reading Road in Sharonville, Ohio. The survey included identifying and sampling accessible suspect asbestos-containing materials (ACM) for laboratory analysis, and providing information regarding the identity, location, condition, and approximate quantities of ACM in interior and exterior building components. The survey was conducted at the site on April 26, 2019 by United States Environmental Protection Agency (USEPA)-accredited building inspectors / Ohio Environmental Protection Agency (OEPA)-certified Asbestos Hazard Evaluation Specialists (AHES) in general accordance with Terracon proposal number PN1197100, dated April 1, 2019. Accessible interior and exterior building components were surveyed. Homogeneous areas of suspect ACM were visually identified and documented. Although reasonable effort was made to survey accessible suspect materials, additional suspect but un-sampled materials could be located in walls, in voids, or in other concealed areas. Suspect ACM samples were collected in general accordance with the sampling protocols outlined in 40 Code of Federal Regulations (CFR) Part 763, Subpart E, known as the Asbestos Hazard Emergency Response Act (AHERA). Samples were delivered to an accredited laboratory for analysis by Polarized Light Microscopy (PLM).

1.1 Project Objective

Terracon understood that the survey was requested for the purpose of potential planned renovations. The EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) regulation 40 CFR Part 61, Subpart M and the state-equivalent NESHAP regulation requires an asbestos survey be conducted prior to renovation and demolition projects.

1.2 Reliance

This report is for the exclusive use of City of Sharonville (Client) for the project being discussed. Reliance by any other party on this report is prohibited without written authorization of Terracon and City of Sharonville. Reliance on this report by City of Sharonville and all authorized parties will be subject to the terms, conditions, and limitations stated in the proposal, this report, and Terracon's Agreement for Services. The limitations of liability defined in Terracon's Agreement for Services is the aggregate limit of Terracon's liability to City of Sharonville.

2.0 BUILDING DESCRIPTION

The subject building is a two-story structure with an attached garage. The first floor consists of office and garage space. The second floor consists of living space including a common area, bedrooms, showers, and a kitchen. The building was constructed in 1969 and consists of approximately 8,775 square feet of interior floor space.

3.0 FIELD ACTIVITIES

The survey was conducted by Mr. Joshua Vogel and Mr. Lemuel Weyer, USEPA-accredited asbestos inspectors and OEPA-certified AHESs. A copy of Mr. Vogel's and Mr. Weyer's OEPA AHES credential is attached as Appendix D. The survey was conducted in general accordance with the sample collection protocols established in USEPA 40 CFR Part 763, Subpart E, Section 763.86, AHERA. A summary of survey activities is provided below.

3.1 Visual Assessment

Survey activities were initiated with visual observations of the accessible interior and exterior areas of the building to identify homogeneous areas of suspect ACM. A homogeneous area (HA) consists of building materials that appear similar throughout in terms of color and texture with consideration given to the date of application.

3.2 Physical Assessment

A physical assessment of each HA of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the USEPA as a material which can be crumbled, pulverized, or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

3.3 Sample Collection

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance with USEPA AHERA sampling protocols. Samples of suspect materials were collected from randomly selected locations in each homogeneous area. Bulk samples were collected using wet methods as applicable to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker. The selection of sample locations and frequency of sampling were based on Terracon's observations and the assumption that like materials in the same area are homogeneous in content.

Terracon collected a total of 113 bulk samples from 37 homogeneous areas of suspect ACM. A summary of suspect ACM samples collected during the survey is included as Appendix B. Sample location drawings are included as Appendix F.

3.4 Sample Analysis

Bulk samples were submitted under chain of custody to International Asbestos Testing Laboratories (IATL) of Mount Laurel, New Jersey for analysis PLM with dispersion staining techniques per USEPA methodology 600/R-93/116. The percentage of asbestos, where applicable, was determined by microscopic visual estimation. When applicable for samples determined by PLM to have a low asbestos content (<10%), the additional point count (PC) method (400 points) was utilized. IATL is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), accreditation number 101165-0.

4.0 REGULATORY OVERVIEW

The asbestos 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 as a regulated asbestos-containing material (RACM).

The asbestos NESHAP regulation classifies material subject to demolition or renovation as either RACM, Category I non-friable ACM, or Category II non-friable ACM. RACM includes all friable ACM (pre-disturbance), along with Category I non-friable ACM that becomes friable (during disturbance), and Category I non-friable ACM subject to sanding, grinding, cutting, or abrading, or Category II non-friable ACM with a high probability of becoming crumbled, pulverized, or reduced to powder by forces expected to act on the material during disturbance. Category I non-friable ACM are exclusively asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products that contain more than 1% asbestos. Category II non-friable ACM are all other non-friable materials (other than Category I non-friable ACM) that contain more than 1% asbestos. Category II non-friable ACM generally includes (but is not limited to) cementitious material such as: cement pipes, cement siding (Transite™), cement panels, glazing, mortar, and grouts.

The OEPA adopted Chapter 3745-20 of the Ohio Administrative Code and implements the Asbestos NESHAP. The owner or operator must provide the OEPA district office or local air agency with written notification at least 10 business days prior to the commencement of abatement project exceeding certain quantity thresholds and demolition projects. The OEPA also regulates friable asbestos abatement activities, asbestos personnel training, and issuance of asbestos professional certifications under OAC 3745-22. OEPA audits asbestos abatement projects and responds to public health emergencies where friable ACMs has been released;

licensed contractors must submit a 10-business day notification prior to an abatement project where RACM in quantities greater than 50 linear or 50 square feet are being removed. Please note that per OEPA regulations, non-friable Category I floor tile if broken into pieces four (4) square inches or smaller are considered friable, and thus as a RACM.

The United States Occupational Safety and Health Administration (USOSHA) asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The USOSHA standard requires that employee exposure to airborne asbestos must not exceed 0.1 fibers per cubic centimeter of air (0.1 f/cc) as an eight-hour time weighted average (TWA) and not exceed 1.0 fibers per cubic centimeter of air (1.0 f/cc) over a 30-minute time period known as an excursion limit (EL). The TWA and EL are known as USOSHA's asbestos permissible exposure limits (PELs). The USOSHA standard classifies construction and maintenance activities which could disturb ACM and specifies work practices and precautions which employers must follow when engaging in each class of regulated work.

5.0 FINDINGS AND RECOMMENDATIONS

Based on the results of laboratory analysis by polarized light microscopy (PLM) and point count (PC; where applicable) in regard to the samples collected, the materials listed below were identified to contain asbestos.

Material Description	Material Location(s)	% and Type Asbestos	EPA NESHAP Material Classification	Estimated Quantity*
Exterior White Vent Caulking	Associated with Vent at the Southeast Corner of Garage Roof	1.2% Chrysotile	Category II Non-Friable	5 Square Feet (SF)
Exterior Brown Wall Expansion Caulking	Exterior Wall	1.3% Chrysotile	Category II Non-Friable	75 SF
Brown Exterior Door Caulking	Hatch Door Frame (exterior side) to Garage Roof	1.4% Chrysotile	Category II Non-Friable	2 SF
Black Mastic Beneath Non-Asbestos-Containing 12" x 12" White Floor Tile with Grey Flashes	Floor Throughout Facility	1.5% Chrysotile	Category I Non-Friable	3,100 SF
Black Interior Window Frame Caulking	Garage Southeast Window	5.0% Chrysotile	Category II Non-Friable	1 Window or 5 SF
Interior White Wall Expansion Caulking	Interior Corners of Garage Walls	2.3% Chrysotile	Category II Non-Friable	50 SF
White Interior Door Frame Caulking	Door Frames Throughout Interior of the Facility	1.3% Chrysotile	Category II Non-Friable	30 SF
12" x 12" Tan Floor Tile and Black Mastic	1st Floor Hallway Closet Floor	Floor Tile: 1.2% Chrysotile, Mastic: 1.3% Chrysotile	Category I Non-Friable	50 SF

Material Description	Material Location(s)	% and Type Asbestos	EPA NESHAP Material Classification	Estimated Quantity*
White Pipe Fitting Insulation Associated with Non-Asbestos-Containing Fiberglass Insulated Water Lines	2nd Floor Laundry Room, Mechanical room, and Above Ceiling Tiles Throughout Facility	7.3% Chrysotile	Regulated Asbestos-Containing Material (RACM)	~150 Fittings or ~150 Linear Feet (LF) (Additional Quantities May Be Concealed in Walls and Above Ceilings)
Brown Mastic Behind Non-Asbestos-Containing 4" Yellow Cove Base	2nd Floor IT Closet – Wall Bottoms	0.25% Chrysotile	Not regulated by EPA NESHAP (<1% asbestos By PC); however, regulation under OSHA 1926.1101 if disturbed	25 SF
Interior White Stair Stringer Caulking	Along Juncture of Wall and Stair Stringer - Steps to 2nd Floor	1.3% Chrysotile	Category II Non-Friable	15 SF
Brown Exterior Door Frame Caulking	Exterior Side of Entry Doors to Building	0.25% Chrysotile	Not regulated by EPA NESHAP (<1% asbestos By PC); however, regulation under OSHA 1926.1101 if disturbed	6 Doors or 12 SF
Grey Exterior Window Frame Caulking	Exterior Side of Window Frames	1.3% Chrysotile	Category II Non-Friable	18 Windows or 90 SF

***Estimated quantities** are based on a cursory field evaluation, and actual quantities may vary significantly, especially if ACMs are present in hidden and/or inaccessible areas not evaluated as part of this survey. This is not a bidding document, contractors must make their own judgement on actual quantities they believe to be present.

Appendix A includes the above listing with conditions observed at the time of the survey. A summary of materials sampled including analytical results is included in Appendix B. The laboratory analytical report is included as Appendix C. A photo log with example photos of identified ACM is included as Appendix E.

If the above identified ACMs (>1% asbestos) will be impacted by the renovation, a state-licensed asbestos abatement contractor must be retained to properly remove, handle, and disposed of those ACMs prior to renovation. Please note that materials containing 1% or less asbestos are not regulated by EPA NESHAP; however, they are regulated under the Occupational Safety and Health Administration (OSHA). Terracon recommends that any materials containing 1% or less asbestos still be removed (if to be impacted by the renovation), handled, and disposed properly by a state-licensed asbestos abatement contractor with accredited asbestos workers. For any ACMs not impacted by renovation, it is recommended that they be managed in-place in good condition with the development and implementation of an asbestos Operations and Maintenance (O&M) Plan.

6.0 LIMITATIONS/GENERAL COMMENTS

In addition to any limitations indicated in other sections of this report, please note that Terracon did not perform sampling which required demolition or destructive activities such as knocking holes in walls, dismantling of equipment or removal of protective coverings. Reasonable efforts to access suspect materials within known areas of restricted access (e.g., crawl spaces) were made; however, confined spaces or areas which may pose a health or safety risk to Terracon personnel were not sampled. Sampling did not include suspect materials which could not be safely reached with available ladders/man-lifts.

This asbestos survey was 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 of the building. 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 City of Sharonville for specific application to their 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 which may have been used in the preparation of this report. No warranty, express or implied is made.

APPENDIX A

Sharonville Fire Station 87
11210 Reading Road
Sharonville, Ohio 45241

IDENTIFIED ASBESTOS-CONTAINING MATERIALS BY HOMOGENEOUS AREA (HA)

HA No.	Material Description	Material Location(s)	% and Type Asbestos	EPA NESHAP Classification	Condition	Estimated Quantity*
6	Exterior White Vent Caulking	Associated with Vent at the Southeast Corner of Garage Roof	1.2% Chrysotile	Category II Non-Friable	Good	5 Square Feet (SF)
8	Exterior Brown Wall Expansion Caulking	Exterior Wall	1.3% Chrysotile	Category II Non-Friable	Good	75 SF
9	Brown Exterior Door Caulking	Hatch Door Frame (exterior side) to Garage Roof	1.4% Chrysotile	Category II Non-Friable	Good	2 SF
10	Black Mastic Beneath Non-Asbestos-Containing 12” x 12” White Floor Tile with Grey Flashes	Floor Throughout Facility	1.5% Chrysotile	Category I Non-Friable	Good	3,100 SF
14	Black Interior Window Frame Caulking	Garage Southeast Window	5.0% Chrysotile	Category II Non-Friable	Good	1 Window or 5 SF
16	Interior White Wall Expansion Caulking	Interior Corners of Garage Walls	2.3% Chrysotile	Category II Non-Friable	Good	50 SF
17	White Interior Door Frame Caulking	Door Frames Throughout Interior of the Facility	1.3% Chrysotile	Category II Non-Friable	Good	30 SF
18	12” x 12” Tan Floor Tile and Black Mastic	1st Floor Hallway Closet Floor	Floor Tile: 1.2% Chrysotile, Mastic: 1.3% Chrysotile	Category I Non-Friable	Good	50 SF
26	White Pipe Fitting Insulation Associated with Non-Asbestos-Containing Fiberglass Insulated Water Lines	2nd Floor Laundry Room, Mechanical room, and Above Ceiling Tiles Throughout Facility	7.3% Chrysotile	Regulated Asbestos-Containing Material (RACM)	Good	~150 Fittings or ~150 SF (Additional Quantities May Be Concealed in Walls and Above Ceilings)

HA No.	Material Description	Material Location(s)	% and Type Asbestos	EPA NESHAP Classification	Condition	Estimated Quantity*
27	Brown Mastic Behind Non-Asbestos-Containing 4" Yellow Cove Base	2nd Floor IT Closet – Wall Bottoms	0.25% Chrysotile	Not regulated by EPA NESHAP (<1% asbestos By PC); however, regulation under OSHA 1926.1101 if disturbed	Good	25 SF
34	Interior White Stair Stringer Caulking	Along Juncture of Wall and Stair Stringer - Steps to 2nd Floor	1.3% Chrysotile	Category II Non-Friable	Good	15 SF
35	Brown Exterior Door Frame Caulking	Exterior Side of Entry Doors to Building	0.25% Chrysotile	Not regulated by EPA NESHAP (<1% asbestos By PC); however, regulation under OSHA 1926.1101 if disturbed	Good	6 Doors or 12 SF
37	Grey Exterior Window Frame Caulking	Exterior Side of Window Frames	1.3% Chrysotile	Category II Non-Friable	Good	18 Windows or 90 SF

***Estimated quantities** are based on a cursory field evaluation, and actual quantities may vary significantly, especially if ACMs are present in hidden and/or inaccessible areas not evaluated as part of this survey. This is not a bidding document, contractors must make their own judgement on actual quantities they believe to be present.

If the above identified ACMs (>1% asbestos) will be impacted by the renovation, a state-licensed asbestos abatement contractor must be retained to properly remove, handle, and disposed of those ACMs prior to renovation. Please note that materials containing 1% or less asbestos are not regulated by EPA NESHAP; however, they are regulated under the Occupational Safety and Health Administration (OSHA). Terracon recommends that any materials containing 1% or less asbestos still be removed (if to be impacted by the renovation), handled, and disposed properly by a state-licensed asbestos abatement contractor with accredited asbestos workers. For any ACMs not impacted by renovation, it is recommended that they be managed in-place in good condition with the development and implementation of an asbestos Operations and Maintenance (O&M) Plan.

APPENDIX B

Sharonville Fire Station 87
11210 Reading Road
Sharonville, Ohio 45241

ASBESTOS SURVEY SAMPLE & RESULTS SUMMARY

Sample #		Sample Material Description	Sample Location	HA Location(s)	Results (% / Type of Asbestos)
HA #	SEQ. #				
1	001	EPDM Roofing with Black Tar, Black Tar Paper and Foam	Southeast Corner	Main Building Roof	Tar: None Detected (ND), Rubber: ND, Foam: ND, Silver Roof Paint: ND
	002		Northeast Corner		Rubber: ND, Foam: ND, Silver Roof Paint: ND
	003		Northwest Corner		Tar: ND, Rubber: ND, Foam: ND, Silver Roof Paint: ND
2	004	EDPM Flashing with Brown Mastic	Southeast Corner	Main Building Roof	Rubber: ND, Mastic: ND
	005		Northeast Corner		Rubber: ND, Mastic: ND
	006		Northwest Corner		Rubber: ND, Mastic: ND
3	007	White Caulking with Black Tar	Northwest	North Parapet Wall of Main Roof	ND
	008		Center of Wall		ND
	009		Northeast		ND
4	010	EPDM Roofing with Black Tar, Black Tar Paper and Foam	Southeast Corner	Garage Roof	Rubber: ND, Foam: ND, Silver Paint: ND, Paper: ND
	011		Southwest Corner		Rubber: ND, Foam: ND, Silver Paint: ND, Paper: ND
	012		Northwest Corner		Rubber: ND, Foam: ND, Silver Paint: ND, Paper: ND

Sample #		Sample Material Description	Sample Location	HA Location(s)	Results (% / Type of Asbestos)
HA #	SEQ. #				
5	013	EDPM Flashing with Black Tar	Southeast Corner	Garage Roof	Rubber: ND, Tar: ND
	014		Southwest Corner		Rubber: ND, Tar: ND
	015		Northwest Corner		Rubber: ND, Tar: ND
6	016	White Exterior Vent Caulking	North Side	Associated with Vent in Southeast Corner at Garage Roof	**1.1% Chrysotile by Point Count (PC)**
	017		North Side		**1.2% Chrysotile PC**
	018		South Side		**1.2% Chrysotile PC**
7	019	Grey Exterior Duct Mastic	North End	Associated with Duct Work of Garage Roof	ND
	020		North End		ND
	021		South End		ND
8	022	Exterior Brown Wall Expansion Caulking	Northeast Side of Garage Roof	Exterior Wall	ND
	023		Middle North Wall of Garage		**1.2% Chrysotile PC**
	024		Middle South Wall of Main Building		**1.3% Chrysotile PC**
9	025	Brown Exterior Hatch Door Frame Caulking	North Hatch Doorway	Hatch Door Frame to Garage Roof	**1.4% Chrysotile PC**
	026		South Hatch Doorway		**1.3% Chrysotile PC**
	027		South Hatch Doorway		**1.3% Chrysotile PC**
10	028	12” x 12” White Floor Tile with Grey Flashes	Entrance to 1st Floor Laundry Room	Floor Throughout Facility	Floor Tile: ND, **Mastic: 1.5% Chrysotile PC**

Sample #		Sample Material Description	Sample Location	HA Location(s)	Results (% / Type of Asbestos)
HA #	SEQ. #				
	029	and Black and Yellow Mastic	Doorway to IT Closet		Floor Tile: ND, **Mastic: 1.3% Chrysotile PC**
	030		2nd Floor East Exit Doorway		Floor Tile: ND, **Mastic: Trace Chrysotile PC**
11	031	2' x 2' White Small Fissure Ceiling Tile	1st Floor at Doorway to Stairs	Ceilings Throughout Facility	ND
	032		At Doorway to Roof Hatch		ND
	033		Middle Closet near Bedrooms		ND
12	034	4" Blue Cove Base with Tan Mastic	1st Floor Hallway- East of Exit Door	Wall Bottoms Throughout Facility	Cove Base: ND, Mastic: ND
	035		Near 2nd Floor East Exit Door		Cove Base: ND, Mastic: ND
	036		Near 2nd Floor Restroom		Cove Base: ND, Mastic: ND
13	037	2' x 4' Drywall Ceiling Tile	On Platform Near Northeast Bay Door	Garage Ceiling	ND
	038		On Platform Near Northeast Bay Door		ND
	039		On Platform Near Northeast Bay Door		ND
14	040	Black Interior Window Frame Caulking	West Side of Southeast Window	Garage Southeast Window	**4.7% Chrysotile PC**
	041		West Side of Southeast Window		**4.5% Chrysotile PC**
	042		West Side of Southeast Window		**5.0% Chrysotile PC**
15	043	Brown Door Frame Caulking	1st Floor Hallway Exit Door	North Exit Door in Garage, North Exit in 1st Floor Hallway	ND
	044		North Exit Door in Garage		ND

Sample #		Sample Material Description	Sample Location	HA Location(s)	Results (% / Type of Asbestos)
HA #	SEQ. #				
	045		North Exit Door in Garage		ND
16	046	White Wall Expansion Caulking	Northeast Corner	Corners of Garage Walls	**2.0% Chrysotile PC**
	047		Northeast Corner		**2.3% Chrysotile PC**
	048		Northeast Corner		**2.1% Chrysotile PC**
17	049	Interior White Door Frame Caulking	1st Floor Southwest Office Doorway	Interior Door Frames Throughout Facility	**1.3% Chrysotile PC**
	050		At Kitchen Doorway		**Trace Chrysotile PC**
	051		At 2nd Floor Restroom Door		**Trace Chrysotile PC**
18	052	12” x 12” Tan Floor Tile with Black Mastic	Northwest Corner	Floor - 1st Floor Hallway Closet	**Floor Tile: 1.2% Chrysotile PC, Mastic: 1.3% Chrysotile PC**
	053		Northwest Corner		**Floor Tile: 1.2% Chrysotile PC, Mastic: 1.3% Chrysotile PC**
	054		Northwest Corner		**Floor Tile: 1.2% Chrysotile PC, Mastic: 1.3% Chrysotile PC**
19	055	Brown 1” x 1” Ceramic Floor Tile with Mortar and Grout	Southwest Corner of Women’s Restroom	Men’s and Women’s 1st Floor Restroom, 2nd Floor Restroom	Ceramic: ND, Grout: ND, Mortar: ND
	056		Southwest Corner of Women’s Restroom		Ceramic: ND, Grout: ND, Mortar: ND
	057		Southwest Corner of Men’s 1st Floor Restroom		Ceramic: ND, Grout: ND, Mortar: ND
20	058	2”’x 2”’ Brown Ceramic Wall Tile, Mortar and Mastic	Southeast Corner of Men’s 1st Floor Restroom	Men’s 1st Floor Restroom, 2nd Floor Restroom	Ceramic: ND, Grout: ND, Mortar: ND, Mastic: ND
	059		Southeast Corner of Men’s 1st Floor Restroom		Ceramic: ND, Grout: ND, Mortar: ND, Mastic: ND

Sample #		Sample Material Description	Sample Location	HA Location(s)	Results (% / Type of Asbestos)
HA #	SEQ. #				
	060		Southeast Corner of Men's 1st Floor Restroom		Ceramic: ND, Grout: ND, Mortar: ND, Mastic: ND
21	061	2"x 2" Brown Ceramic Wall Tile, Mortar and Mastic	Southeast Corner	Women's 1st Floor Restroom	Ceramic: ND, Grout: ND, Mastic: ND
	062		Southeast Corner		Ceramic: ND, Grout: ND, Mastic: ND
	063		Southeast Corner		Ceramic: ND, Grout: ND, Mastic: ND
22	064	White 2' x 4' Large Fissure Ceiling Tile	Southwest Corner	Workout Room	ND
	065		Northwest Corner		ND
	066		Northeast Corner		ND
23	067	Yellow Carpet Mastic	Entry to Middle Closet Near Bedrooms	2nd Floor Bedrooms and Northeast Storage Closets	ND
	068		Entry to Middle Closet Near Bedrooms		ND
	069		Entry to Northeast Bedroom		ND
24	070	12" x 12" Tan Floor Tile with Yellow Mastic	Behind Refrigerator	Around Cabinets in Kitchen	Floor Tile: ND, Mastic: ND
	071		Behind Refrigerator		Floor Tile: ND, Mastic: ND
	072		Behind Refrigerator		Floor Tile: ND, Mastic: ND
25	073	White Countertop Caulking	Near Southwest Corner of Counter	Around Countertop in Kitchen	ND
	074		Near Southwest Corner of Counter		ND
	075		Near Southwest Corner of Counter		ND

Sample #		Sample Material Description	Sample Location	HA Location(s)	Results (% / Type of Asbestos)
HA #	SEQ. #				
26	076	White Pipe Fitting Insulation (on fiberglass insulated water lines)	Above Hot Water Tank	2nd Fl Laundry Room, Mechanical Room, and Above Ceiling Tiles Throughout Facility	**4.8% Chrysotile PC**
	077		Above Hot Water Tank		**7.3% Chrysotile PC**
	078		Southeast Corner of 2nd Floor Laundry Room		**6.8% Chrysotile PC**
27	079	4" Yellow Cove Base with Brown Mastic	Northeast Corner	2nd Floor IT Closet	Cove Base: ND, **Mastic: 0.25% Chrysotile PC**
	080		Northeast Corner		Cove Base: ND, **Mastic: 0.25% Chrysotile PC**
	081		Northeast Corner		Cove Base: ND, **Mastic: 0.25% Chrysotile PC**
28	082	2" x 2" White Large Fissure Ceiling Tile	At Entry	2nd Floor IT Closet	ND
	083		At Entry		ND
	084		At Entry		ND
29	085	Plaster Ceilings	Southeast Corner	2nd Floor Restroom	ND
	086		Northwest Corner		ND
	087		Near Entry to Shower		ND
30	088	Duct Insulation	Middle of Laundry Room	Laundry Room, HVAC Room	ND
	089		Middle of Laundry Room		ND
	090		Middle of Laundry Room		ND
31	091		Doorway to HVAC Room	Throughout Facility	Joint Compound: ND

Sample #		Sample Material Description	Sample Location	HA Location(s)	Results (% / Type of Asbestos)
HA #	SEQ. #				
	092	Drywall System: Drywall and Joint Compound	Northwest Bedroom Doorway		Drywall: ND, Joint Compound: ND
	093		Northwest Bedroom Doorway		Drywall: ND, Joint Compound: ND
	094		East of Doorway in 1st Floor Southwest Office		Drywall: ND, Joint Compound: ND
	095		Southeast Corner of Exercise Room		Drywall: ND, Joint Compound: ND
32	096	Fiberglass Pipe Insulation with Tan Wrap	On Platform in Garage Near Northeast Bay Door	Throughout Ceilings, HVAC Room	Wrap: ND, Insulation: ND
	097		Above Hot Water Heater		Wrap: ND, Insulation: ND
	098		Above Hot Water Heater		Wrap: ND, Insulation: ND
33	099	Off- White Duct Insulation	1st Floor at Doorway to Stairs	Duct Work Throughout Facility	ND
	100		Northwest End of Living Room		ND
	101		Northwest End of Living Room		ND
34	102	White Stair Stringer Caulking	Top of Stairs	Along Juncture of Wall and Stair Stringer - Steps to 2nd Floor	**1.2% Chrysotile PC**
	103		At Landing		**1.3% Chrysotile PC**
	104		Bottom Step		**1.2% Chrysotile PC**
35	105	Brown Exterior Door Caulking	1st Floor Office Entry	Entry Doors to Building (6 Doors)	**0.25% Chrysotile PC**
	106		1st Floor Garage Entry		**Trace Chrysotile PC**
	107		2nd Floor East Exit Door		**Trace Chrysotile PC**

Sample #		Sample Material Description	Sample Location	HA Location(s)	Results (% / Type of Asbestos)
HA #	SEQ. #				
36	108	Brown Caulking	Northeast Corner of Workout Room	Associated with Garage Doors on Main Garage and Workout Room	ND
	109		Northeast Back Garage Door		ND
	110		Middle – Front Garage Door		ND
37	111	Exterior Window Frame Caulking	Northwest Window on North Side of Building	Exterior Windows	**1.2% Chrysotile PC**
	112		North Middle Window on North Side of Building		**1.3% Chrysotile PC**
	113		Northeast Window on North Side of Building		ND

APPENDIX C

ASBESTOS ANALYTICAL LABORATORY DATA

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ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Terracon
611 Lunken Park Drive
Cincinnati OH 45226

Client: TER940

Report Date: 5/8/2019
Report No.: 588715 - PLM
Project: Sharonville Fire Dept
Project No.: N1197100

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773049
Client No.: 1-001

Analyst Observation: Black Tar
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam

Location: Southeast Corner; Main Building Roof
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773049(L2)
Client No.: 1-001

Analyst Observation: Black Roof Material
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam

Location: Southeast Corner; Main Building Roof
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	25 Synthetic	75

Lab No.: 6773049(L3)
Client No.: 1-001

Analyst Observation: Yellow Foam
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam

Location: Southeast Corner; Main Building Roof
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773049(L4)
Client No.: 1-001

Analyst Observation: Silver Roof Material
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam

Location: Southeast Corner; Main Building Roof
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	40 Cellulose	60

Lab No.: 6773050
Client No.: 1-002

Analyst Observation: Black Roof Material
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam

Location: Northeast Corner; Main Building Roof
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	30 Synthetic	70

Lab No.: 6773050(L2)
Client No.: 1-002

Analyst Observation: Yellow Foam
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam

Location: Northeast Corner; Main Building Roof
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: 4/29/2019
Date Analyzed: 05/07/2019
Signature:
Analyst: Linda Price

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Project No.: N1197100

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773050(L3)
Client No.: 1-002

Analyst Observation: Silver Roof Material
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam

Location: Northeast Corner; Main Building Roof
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	45 Cellulose	55

Lab No.: 6773051
Client No.: 1-003

Analyst Observation: Black Roof Material
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam

Location: NorthwestCorner; Main Building Roof
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	25 Synthetic	75

Lab No.: 6773051(L2)
Client No.: 1-003

Analyst Observation: Yellow Foam
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam

Location: NorthwestCorner; Main Building Roof
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773051(L3)
Client No.: 1-003

Analyst Observation: Silver Roof Material
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam

Location: NorthwestCorner; Main Building Roof
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	40 Cellulose	60

Lab No.: 6773051(L4)
Client No.: 1-003

Analyst Observation: Red/Black Roof Material
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam

Location: NorthwestCorner; Main Building Roof
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773052
Client No.: 2-004

Analyst Observation: Black Roof Material
Client Description: EPDM Flashing With Brown Mastic

Location: Southeast Corner; Main Building Roof
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	25 Synthetic	75

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Project No.: N1197100

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773052(L2)
Client No.: 2-004

Analyst Observation: Brown Mastic
Client Description: EPDM Flashing With Brown Mastic

Location: Southeast Corner; Main Building Roof
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773053
Client No.: 2-005

Analyst Observation: Black Roof Material
Client Description: EPDM Flashing With Brown Mastic

Location: Northeast Corner; Main Building Roof
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
20 Synthetic

Percent Non-Fibrous Material:
80

Lab No.: 6773053(L2)
Client No.: 2-005

Analyst Observation: Brown Mastic
Client Description: EPDM Flashing With Brown Mastic

Location: Northeast Corner; Main Building Roof
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773054
Client No.: 2-006

Analyst Observation: Black Roof Material
Client Description: EPDM Flashing With Brown Mastic

Location: Northwest Corner; Main Building Roof
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
20 Synthetic

Percent Non-Fibrous Material:
80

Lab No.: 6773054(L2)
Client No.: 2-006

Analyst Observation: Brown Mastic
Client Description: EPDM Flashing With Brown Mastic

Location: Northwest Corner; Main Building Roof
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773055
Client No.: 3-007

Analyst Observation: White/Black Caulk
Client Description: White Caulking With Black Tar

Location: Northwest; North Parapet Wall Of Main Roof
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

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Project No.: N1197100

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773056
Client No.: 3-008

Analyst Observation: White/Black Caulk
Client Description: White Caulking With Black Tar

Location: Center Of Wall; North Parapet Wall Of Main Roof
Facility:

Percent Asbestos: *None Detected*

Percent Non-Asbestos Fibrous Material: None Detected

Percent Non-Fibrous Material: 100

Lab No.: 6773057
Client No.: 3-009

Analyst Observation: White/Black Caulk
Client Description: White Caulking With Black Tar

Location: Northeast; North Parapet Wall Of Main Roof
Facility:

Percent Asbestos: *None Detected*

Percent Non-Asbestos Fibrous Material: None Detected

Percent Non-Fibrous Material: 100

Lab No.: 6773058
Client No.: 4-010

Analyst Observation: Black Roof Material
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam

Location: Southeast Corner; Garage Roof
Facility:

Percent Asbestos: *None Detected*

Percent Non-Asbestos Fibrous Material: 30 Synthetic

Percent Non-Fibrous Material: 70

Lab No.: 6773058(L2)
Client No.: 4-010

Analyst Observation: Yellow Foam
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam

Location: Southeast Corner; Garage Roof
Facility:

Percent Asbestos: *None Detected*

Percent Non-Asbestos Fibrous Material: None Detected

Percent Non-Fibrous Material: 100

Lab No.: 6773058(L3)
Client No.: 4-010

Analyst Observation: Silver Roof Material
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam

Location: Southeast Corner; Garage Roof
Facility:

Percent Asbestos: *None Detected*

Percent Non-Asbestos Fibrous Material: 40 Cellulose

Percent Non-Fibrous Material: 60

Lab No.: 6773058(L4)
Client No.: 4-010

Analyst Observation: Black Paper
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam

Location: Southeast Corner; Garage Roof
Facility:

Percent Asbestos: *None Detected*

Percent Non-Asbestos Fibrous Material: 40 Cellulose
30 Cellulose

Percent Non-Fibrous Material: 30

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Date Received: 4/29/2019
Date Analyzed: 05/07/2019
Signature:
Analyst: Linda Price

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773059
Client No.: 4-011
Analyst Observation: Black Roof Material
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam
Location: Southwest Corner; Garage Roof
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	30 Synthetic	70

Lab No.: 6773059(L2)
Client No.: 4-011
Analyst Observation: Yellow Foam
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam
Location: Southwest Corner; Garage Roof
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773059(L3)
Client No.: 4-011
Analyst Observation: Silver Roof Material
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam
Location: Southwest Corner; Garage Roof
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	40 Cellulose	60

Lab No.: 6773059(L4)
Client No.: 4-011
Analyst Observation: Black Paper
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam
Location: Southwest Corner; Garage Roof
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	40 Cellulose 30 Fibrous Glass	30

Lab No.: 6773060
Client No.: 4-012
Analyst Observation: Black Roof Material
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam
Location: Northwest Corner; Garage Roof
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	25 Synthetic	75

Lab No.: 6773060(L2)
Client No.: 4-012
Analyst Observation: Yellow Foam
Client Description: EPDM Roofing With Black Tar, Black Tar Paper And Foam
Location: Northwest Corner; Garage Roof
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: 4/29/2019
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Signature:
Analyst: Linda Price

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Client: Terracon
611 Lunken Park Drive
Cincinnati OH 45226

Client: TER940

Report Date: 5/8/2019
Report No.: 588715 - PLM
Project: Sharonville Fire Dept
Project No.: N1197100

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773060(L3) **Analyst Observation:** Silver Roof Material **Location:** Northwest Corner; Garage Roof
Client No.: 4-012 **Client Description:** EPDM Roofing With Black Tar, Black Tar Paper And Foam **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	40 Cellulose	60

Lab No.: 6773060(L4) **Analyst Observation:** Black Paper **Location:** Northwest Corner; Garage Roof
Client No.: 4-012 **Client Description:** EPDM Roofing With Black Tar, Black Tar Paper And Foam **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	40 Cellulose 30 Fibrous Glass	30

Lab No.: 6773061 **Analyst Observation:** Black Roof Material **Location:** Southeast Corner; Garage Roof
Client No.: 5-013 **Client Description:** EPDM Flashing With Black Tar **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	25 Synthetic	75

Lab No.: 6773061(L2) **Analyst Observation:** Black Tar **Location:** Southeast Corner; Garage Roof
Client No.: 5-013 **Client Description:** EPDM Flashing With Black Tar **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773062 **Analyst Observation:** Black Roof Material **Location:** Southwest Corner; Garage Roof
Client No.: 5-014 **Client Description:** EPDM Flashing With Black Tar **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	30 Synthetic	70

Lab No.: 6773062(L2) **Analyst Observation:** Black Tar **Location:** Southwest Corner; Garage Roof
Client No.: 5-014 **Client Description:** EPDM Flashing With Black Tar **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

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Date Received: 4/29/2019
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Signature:
Analyst: Linda Price

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Client: TER940

Report Date: 5/8/2019
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Project: Sharonville Fire Dept
Project No.: N1197100

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773063
Client No.: 5-015

Analyst Observation: Black Roof Material
Client Description: EPDM Flashing With Black Tar

Location: Northwest Corner; Garage Roof
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
30 Synthetic

Percent Non-Fibrous Material:
70

Lab No.: 6773063(L2)
Client No.: 5-015

Analyst Observation: Black Tar
Client Description: EPDM Flashing With Black Tar

Location: Northwest Corner; Garage Roof
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773064
Client No.: 6-016

Analyst Observation: Silver/Brown Caulk
Client Description: White Caulking

Location: North Side; Associated With Vent In Southeast Corner Of Garage Roof
Facility:

Percent Asbestos:
PC 1.1 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.9

Lab No.: 6773065
Client No.: 6-017

Analyst Observation: Brown Caulk
Client Description: White Caulking

Location: North Side; Associated With Vent In Southeast Corner Of Garage Roof
Facility:

Percent Asbestos:
PC 1.2 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.8

Lab No.: 6773066
Client No.: 6-018

Analyst Observation: Brown Caulk
Client Description: White Caulking

Location: South Side; Associated With Vent In Southeast Corner Of Garage Roof
Facility:

Percent Asbestos:
PC 1.2 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.8

Lab No.: 6773067
Client No.: 7-019

Analyst Observation: Grey Mastic
Client Description: Grey Mastic

Location: North End; Associated With Duck Work Of Garage Roof
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

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

Date Received: 4/29/2019
Date Analyzed: 05/07/2019
Signature:
Analyst: Linda Price

Approved By:
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Laboratory Director

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Project No.: N1197100

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773068 **Client No.:** 7-020	**Analyst Observation:** Grey Mastic **Client Description:** Grey Mastic	**Location:** North End; Associated With Duck Work Of Garage Roof **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 6773069 **Client No.:** 7-021	**Analyst Observation:** Grey Mastic **Client Description:** Grey Mastic	**Location:** South End; Associated With Duck Work Of Garage Roof **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 6773070 **Client No.:** 8-022	**Analyst Observation:** Brown Caulk **Client Description:** Brown Expansion Caulking	**Location:** Northeast Side Of Garage Roof; Exterior Wall **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: 2 Other	Percent Non-Fibrous Material: 98
Lab No.: 6773071 **Client No.:** 8-023	**Analyst Observation:** Brown Caulk **Client Description:** Brown Expansion Caulking	**Location:** Middle North Wall Of Garage; Exterior Wall **Facility:**
Percent Asbestos: ***PC 1.2*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 98.8
Lab No.: 6773072 **Client No.:** 8-024	**Analyst Observation:** Brown Caulk **Client Description:** Brown Expansion Caulking	**Location:** Middle South Wall Of Main Building; Exterior Wall **Facility:**
Percent Asbestos: ***PC 1.3*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 98.7
Lab No.: 6773073 **Client No.:** 9-025	**Analyst Observation:** Brown Caulk **Client Description:** Brown Door Caulking	**Location:** North Hatch Doorway; Hatch To Garage Roof **Facility:**
Percent Asbestos: ***PC 1.4*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 98.6

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Date Analyzed: 05/07/2019
Signature:
Analyst: Linda Price

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Terracon
611 Lunken Park Drive
Cincinnati OH 45226

Client: TER940

Report Date: 5/8/2019
Report No.: 588715 - PLM
Project: Sharonville Fire Dept
Project No.: N1197100

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773074 **Client No.:** 9-026	**Analyst Observation:** Brown Caulk **Client Description:** Brown Door Caulking	**Location:** South Hatch Doorway; Hatch To Garage Roof **Facility:**
Percent Asbestos: ***PC 1.3*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 98.7
Lab No.: 6773075 **Client No.:** 9-027	**Analyst Observation:** Brown Caulk **Client Description:** Brown Door Caulking	**Location:** South Hatch Doorway; Hatch To Garage Roof **Facility:**
Percent Asbestos: ***PC 1.3*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 98.7
Lab No.: 6773076 **Client No.:** 10-028	**Analyst Observation:** White/Grey Floor Tile **Client Description:** 12"x12" White Floor Tile With Grey Flashes And Black And Yellow Mastic	**Location:** Entrance To 1st Floor Laundry Room **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 6773076(L2) **Client No.:** 10-028	**Analyst Observation:** Black/Yellow Mastic **Client Description:** 12"x12" White Floor Tile With Grey Flashes And Black And Yellow Mastic	**Location:** Entrance To 1st Floor Laundry Room **Facility:**
Percent Asbestos: ***PC 1.5*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 98.5
Lab No.: 6773077 **Client No.:** 10-029	**Analyst Observation:** White/Grey Floor Tile **Client Description:** 12"x12" White Floor Tile With Grey Flashes And Black And Yellow Mastic	**Location:** Doorway To IT Closet **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 6773077(L2) **Client No.:** 10-029	**Analyst Observation:** Black/Yellow Mastic **Client Description:** 12"x12" White Floor Tile With Grey Flashes And Black And Yellow Mastic	**Location:** Doorway To IT Closet **Facility:**
Percent Asbestos: ***PC 1.3*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 98.7

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Project No.: N1197100

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773078
Client No.: 10-030

Analyst Observation: White/Grey Floor Tile
Client Description: 12"x12" White Floor Tile With Grey Flashes And Black And Yellow Mastic

Location: 2nd Floor East Exit Doorway
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773078(L2)
Client No.: 10-030

Analyst Observation: Yellow/Black Mastic
Client Description: 12"x12" White Floor Tile With Grey Flashes And Black And Yellow Mastic

Location: 2nd Floor East Exit Doorway
Facility:

Percent Asbestos:
PC Trace *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773079
Client No.: 11-031

Analyst Observation: White/Tan Ceiling Tile
Client Description: 2'x2' With Small Fissure Ceiling Tile

Location: 1st Floor At Doorway To Stairs
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
40 Cellulose
30 Mineral Wool

Percent Non-Fibrous Material:
30

Lab No.: 6773080
Client No.: 11-032

Analyst Observation: White/Tan Ceiling Tile
Client Description: 2'x2' With Small Fissure Ceiling Tile

Location: At Doorway To Roof Hatch
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
40 Cellulose
30 Mineral Wool

Percent Non-Fibrous Material:
30

Lab No.: 6773081
Client No.: 11-033

Analyst Observation: White/Tan Ceiling Tile
Client Description: 2'x2' With Small Fissure Ceiling Tile

Location: Middle Closet Near Bedrooms
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
30 Cellulose
30 Mineral Wool

Percent Non-Fibrous Material:
40

Lab No.: 6773082
Client No.: 12-034

Analyst Observation: Blue Cove Base
Client Description: 4" Blue Cove Base With Tan Mastic

Location: 1st Floor Hallway-East Of Exit Door
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773082(L2)
Client No.: 12-034

Analyst Observation: Tan Mastic
Client Description: 4" Blue Cove Base With Tan Mastic

Location: 1st Floor Hallway-East Of Exit Door
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773083
Client No.: 12-035

Analyst Observation: Blue Cove Base
Client Description: 4" Blue Cove Base With Tan Mastic

Location: Near 2nd Floor East Exit Door
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773083(L2)
Client No.: 12-035

Analyst Observation: Tan Mastic
Client Description: 4" Blue Cove Base With Tan Mastic

Location: Near 2nd Floor East Exit Door
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773084
Client No.: 12-036

Analyst Observation: Blue Cove Base
Client Description: 4" Blue Cove Base With Tan Mastic

Location: Near 2nd Floor Restroom
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773084(L2)
Client No.: 12-036

Analyst Observation: Tan Mastic
Client Description: 4" Blue Cove Base With Tan Mastic

Location: Near 2nd Floor Restroom
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773085
Client No.: 13-037

Analyst Observation: White/Brown Drywall
Client Description: 2'x4' Drywall Ceiling Tile

Location: On Platform Near Northeast Bay Door; Garage Ceiling
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
10 Cellulose
2 Fibrous Glass

Percent Non-Fibrous Material:
88

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773086
Client No.: 13-038

Analyst Observation: White/Brown Drywall
Client Description: 2'x4' Drywall Ceiling Tile

Location: On Platform Near Northeast Bay Door; Garage Ceiling
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
8 Cellulose
2 Fibrous Glass

Percent Non-Fibrous Material:
90

Lab No.: 6773087
Client No.: 13-039

Analyst Observation: White/Brown Drywall
Client Description: 2'x4' Drywall Ceiling Tile

Location: On Platform Near Northeast Bay Door; Garage Ceiling
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
10 Cellulose
2 Fibrous Glass

Percent Non-Fibrous Material:
88

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Client: TER940

Report Date: 5/8/2019
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Project No.: N1197100

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773088
Client No.: 14-040

Analyst Observation: Black Caulk
Client Description: Black Interior Window Caulking

Location: Garage West Side Of Southeast Window
Facility:

Percent Asbestos:
PC 4.7 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
95.3

Lab No.: 6773089
Client No.: 14-041

Analyst Observation: Black Caulk
Client Description: Black Interior Window Caulking

Location: Garage West Side Of Southeast Window
Facility:

Percent Asbestos:
PC 4.5 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
95.5

Lab No.: 6773090
Client No.: 14-042

Analyst Observation: Black Caulk
Client Description: Black Interior Window Caulking

Location: Garage West Side Of Southeast Window
Facility:

Percent Asbestos:
PC 5.0 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
95

Lab No.: 6773091
Client No.: 15-043

Analyst Observation: Brown Caulk
Client Description: Brown Door Caulking

Location: 1st Floor Hallway Exit
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773092
Client No.: 15-044

Analyst Observation: Brown Caulk
Client Description: Brown Door Caulking

Location: North Exit Door In Garage
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773093
Client No.: 15-045

Analyst Observation: Brown Caulk
Client Description: Brown Door Caulking

Location: North Exit Door In Garage
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773094
Client No.: 16-046

Analyst Observation: Lt Tan Caulk
Client Description: White Expansion Caulk

Location: Garage Northeast Corner
Facility:

Percent Asbestos:
PC 2.0 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98

Lab No.: 6773095
Client No.: 16-047

Analyst Observation: Lt Tan Caulk
Client Description: White Expansion Caulk

Location: Garage Northeast Corner
Facility:

Percent Asbestos:
PC 2.3 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
97.7

Lab No.: 6773096
Client No.: 16-048

Analyst Observation: Lt Tan Caulk
Client Description: White Expansion Caulk

Location: Garage Northeast Corner
Facility:

Percent Asbestos:
PC 2.1 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
97.9

Lab No.: 6773097
Client No.: 17-049

Analyst Observation: Lt Tan Caulk
Client Description: White Door Caulking

Location: 1st Floor Southwest Office Doorway
Facility:

Percent Asbestos:
PC 1.3 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.7

Lab No.: 6773098
Client No.: 17-050

Analyst Observation: Off-White Caulk
Client Description: White Door Caulking

Location: At Kitchen Doorway
Facility:

Percent Asbestos:
PC Trace *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773099
Client No.: 17-051

Analyst Observation: Off-White Caulk
Client Description: White Door Caulking

Location: At 2nd Floor Restroom Door
Facility:

Percent Asbestos:
PC Trace *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

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Client: TER940

Report Date: 5/8/2019
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Project: Sharonville Fire Dept
Project No.: N1197100

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773100
Client No.: 18-052

Analyst Observation: Off-White Floor Tile
Client Description: 12x12 Tan Floor Tile With Black Mastic

Location: 1st Floor Hallway Closet Northwest Corner
Facility:

Percent Asbestos:
PC 1.2 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.8

Lab No.: 6773100(L2)
Client No.: 18-052

Analyst Observation: Black Mastic
Client Description: 12x12 Tan Floor Tile With Black Mastic

Location: 1st Floor Hallway Closet Northwest Corner
Facility:

Percent Asbestos:
PC 1.3 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
1 Cellulose

Percent Non-Fibrous Material:
97.7

Lab No.: 6773101
Client No.: 18-053

Analyst Observation: Off-White Floor Tile
Client Description: 12x12 Tan Floor Tile With Black Mastic

Location: 1st Floor Hallway Closet Northwest Corner
Facility:

Percent Asbestos:
PC 1.2 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.8

Lab No.: 6773101(L2)
Client No.: 18-053

Analyst Observation: Black Mastic
Client Description: 12x12 Tan Floor Tile With Black Mastic

Location: 1st Floor Hallway Closet Northwest Corner
Facility:

Percent Asbestos:
PC 1.3 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
1 Cellulose

Percent Non-Fibrous Material:
97.7

Lab No.: 6773102
Client No.: 18-054

Analyst Observation: Off-White Floor Tile
Client Description: 12x12 Tan Floor Tile With Black Mastic

Location: 1st Floor Hallway Closet Northwest Corner
Facility:

Percent Asbestos:
PC 1.2 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.8

Lab No.: 6773102(L2)
Client No.: 18-054

Analyst Observation: Black Mastic
Client Description: 12x12 Tan Floor Tile With Black Mastic

Location: 1st Floor Hallway Closet Northwest Corner
Facility:

Percent Asbestos:
PC 1.3 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
1 Cellulose

Percent Non-Fibrous Material:
97.7

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Project No.: N1197100

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773103
Client No.: 19-055

Analyst Observation: Brown Ceramic
Client Description: Brown 1x1 Ceramic Floor Tile With Mortar And Grout

Location: Southwest Corner Of Women's Restroom
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6773103(L2)
Client No.: 19-055

Analyst Observation: Dk Grey Grout
Client Description: Brown 1x1 Ceramic Floor Tile With Mortar And Grout

Location: Southwest Corner Of Women's Restroom
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6773103(L3)
Client No.: 19-055

Analyst Observation: Grey Mortar
Client Description: Brown 1x1 Ceramic Floor Tile With Mortar And Grout

Location: Southwest Corner Of Women's Restroom
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6773104
Client No.: 19-056

Analyst Observation: Brown Ceramic
Client Description: Brown 1x1 Ceramic Floor Tile With Mortar And Grout

Location: Southwest Corner Of Women's Restroom
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6773104(L2)
Client No.: 19-056

Analyst Observation: Dk Grey Grout
Client Description: Brown 1x1 Ceramic Floor Tile With Mortar And Grout

Location: Southwest Corner Of Women's Restroom
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6773104(L3)
Client No.: 19-056

Analyst Observation: Grey Mortar
Client Description: Brown 1x1 Ceramic Floor Tile With Mortar And Grout

Location: Southwest Corner Of Women's Restroom
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773104(L4)
Client No.: 19-056
Analyst Observation: Lt Green Ceramic
Client Description: Brown 1x1 Ceramic Floor Tile With Mortar And Grout
Location: Southwest Corner Of Women's Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773105
Client No.: 19-057
Analyst Observation: Brown Ceramic
Client Description: Brown 1x1 Ceramic Floor Tile With Mortar And Grout
Location: Southwest Corner Of Men's 1st Floor Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773105(L2)
Client No.: 19-057
Analyst Observation: Dk Grey Grout
Client Description: Brown 1x1 Ceramic Floor Tile With Mortar And Grout
Location: Southwest Corner Of Men's 1st Floor Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773105(L3)
Client No.: 19-057
Analyst Observation: Grey Mortar
Client Description: Brown 1x1 Ceramic Floor Tile With Mortar And Grout
Location: Southwest Corner Of Men's 1st Floor Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773106
Client No.: 20-058
Analyst Observation: Tan Ceramic
Client Description: 2x2 Brown Ceramic Wall Tile, Mortar And Mastic
Location: Southeast Corner Of Men's 1st Floor Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773106(L2)
Client No.: 20-058
Analyst Observation: Dk Grey Grout
Client Description: 2x2 Brown Ceramic Wall Tile, Mortar And Mastic
Location: Southeast Corner Of Men's 1st Floor Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773106(L3)
Client No.: 20-058

Analyst Observation: Grey Mortar
Client Description: 2x2 Brown Ceramic Wall Tile, Mortar And Mastic

Location: Southeast Corner Of Men's 1st Floor Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773106(L4)
Client No.: 20-058

Analyst Observation: Dk Beige Mastic
Client Description: 2x2 Brown Ceramic Wall Tile, Mortar And Mastic

Location: Southeast Corner Of Men's 1st Floor Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773107
Client No.: 20-059

Analyst Observation: Tan Ceramic
Client Description: 2x2 Brown Ceramic Wall Tile, Mortar And Mastic

Location: Southeast Corner Of Men's 1st Floor Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773107(L2)
Client No.: 20-059

Analyst Observation: Grey Mortar
Client Description: 2x2 Brown Ceramic Wall Tile, Mortar And Mastic

Location: Southeast Corner Of Men's 1st Floor Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773107(L3)
Client No.: 20-059

Analyst Observation: Dk Beige Mastic
Client Description: 2x2 Brown Ceramic Wall Tile, Mortar And Mastic

Location: Southeast Corner Of Men's 1st Floor Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773107(L4)
Client No.: 20-059

Analyst Observation: Dk Grey Grout
Client Description: 2x2 Brown Ceramic Wall Tile, Mortar And Mastic

Location: Southeast Corner Of Men's 1st Floor Restroom
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: 4/29/2019
Date Analyzed: 05/08/2019
Signature:
Analyst: Ellen Smith

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Terracon
611 Lunken Park Drive
Cincinnati OH 45226

Client: TER940

Report Date: 5/8/2019
Report No.: 588715 - PLM
Project: Sharonville Fire Dept
Project No.: N1197100

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773108
Client No.: 20-060

Analyst Observation: Tan Ceramic
Client Description: 2x2 Brown Ceramic Wall Tile, Mortar And Mastic

Location: Southeast Corner Of Men's 1st Floor Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773108(L2)
Client No.: 20-060

Analyst Observation: Grey Mortar
Client Description: 2x2 Brown Ceramic Wall Tile, Mortar And Mastic

Location: Southeast Corner Of Men's 1st Floor Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773108(L3)
Client No.: 20-060

Analyst Observation: Dk Beige Mastic
Client Description: 2x2 Brown Ceramic Wall Tile, Mortar And Mastic

Location: Southeast Corner Of Men's 1st Floor Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773109
Client No.: 21-061

Analyst Observation: Lt Green Ceramic
Client Description: 2x2 Brown Ceramic Wall Tile, Mortar And Mastic

Location: Women's 1st Floor Restroom Southeast Corner
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773109(L2)
Client No.: 21-061

Analyst Observation: Grey Mortar
Client Description: 2x2 Brown Ceramic Wall Tile, Mortar And Mastic

Location: Women's 1st Floor Restroom Southeast Corner
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773109(L3)
Client No.: 21-061

Analyst Observation: Dk Beige Mastic
Client Description: 2x2 Brown Ceramic Wall Tile, Mortar And Mastic

Location: Women's 1st Floor Restroom Southeast Corner
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

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Project: Sharonville Fire Dept
Project No.: N1197100

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773110 **Client No.:** 21-062 Percent Asbestos: *None Detected*	**Analyst Observation:** Lt Green Ceramic **Client Description:** 2x2 Brown Ceramic Wall Tile, Mortar And Mastic Percent Non-Asbestos Fibrous Material: None Detected	**Location:** Women's 1st Floor Restroom Southeast Corner **Facility:** Percent Non-Fibrous Material: 100
Lab No.: 6773110(L2) **Client No.:** 21-062 Percent Asbestos: *None Detected*	**Analyst Observation:** Grey Mortar **Client Description:** 2x2 Brown Ceramic Wall Tile, Mortar And Mastic Percent Non-Asbestos Fibrous Material: None Detected	**Location:** Women's 1st Floor Restroom Southeast Corner **Facility:** Percent Non-Fibrous Material: 100
Lab No.: 6773110(L3) **Client No.:** 21-062 Percent Asbestos: *None Detected*	**Analyst Observation:** Dk Beige Mastic **Client Description:** 2x2 Brown Ceramic Wall Tile, Mortar And Mastic Percent Non-Asbestos Fibrous Material: None Detected	**Location:** Women's 1st Floor Restroom Southeast Corner **Facility:** Percent Non-Fibrous Material: 100
Lab No.: 6773111 **Client No.:** 21-063 Percent Asbestos: *None Detected*	**Analyst Observation:** Lt Green Ceramic **Client Description:** 2x2 Brown Ceramic Wall Tile, Mortar And Mastic Percent Non-Asbestos Fibrous Material: None Detected	**Location:** Women's 1st Floor Restroom Southeast Corner **Facility:** Percent Non-Fibrous Material: 100
Lab No.: 6773111(L2) **Client No.:** 21-063 Percent Asbestos:	**Analyst Observation:** Lt Green Ceramic **Client Description:** 2x2 Brown Ceramic Wall Tile, Mortar And Mastic Percent Non-Asbestos Fibrous Material:	**Location:** Women's 1st Floor Restroom Southeast Corner **Facility:** Percent Non-Fibrous Material:
Lab No.: 6773111(L3) **Client No.:** 21-063 Percent Asbestos:	**Analyst Observation:** Lt Green Ceramic **Client Description:** 2x2 Brown Ceramic Wall Tile, Mortar And Mastic Percent Non-Asbestos Fibrous Material:	**Location:** Women's 1st Floor Restroom Southeast Corner **Facility:** Percent Non-Fibrous Material:

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773112
Client No.: 22-064

Analyst Observation: Tan Ceiling Tile
Client Description: White 2x4 Large Fissure Ceiling Tile

Location: Workout Rm Southwest Corner
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
30 Cellulose
15 Fibrous Glass

Percent Non-Fibrous Material:
55

Lab No.: 6773113
Client No.: 22-065

Analyst Observation: Tan Ceiling Tile
Client Description: White 2x4 Large Fissure Ceiling Tile

Location: Workout Rm Northwest Corner
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
30 Cellulose
15 Fibrous Glass

Percent Non-Fibrous Material:
55

Lab No.: 6773114
Client No.: 22-066

Analyst Observation: Tan Ceiling Tile
Client Description: White 2x4 Large Fissure Ceiling Tile

Location: Workout Rm Northeast Corner
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
30 Cellulose
15 Fibrous Glass

Percent Non-Fibrous Material:
55

Lab No.: 6773115
Client No.: 23-067

Analyst Observation: Tan Mastic
Client Description: Yellow Carpet Mastic

Location: Entry To Middle Closet Near Bedrooms
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
1 Cellulose

Percent Non-Fibrous Material:
99

Lab No.: 6773116
Client No.: 23-068

Analyst Observation: Tan Mastic
Client Description: Yellow Carpet Mastic

Location: Entry To Middle Closet Near Bedrooms
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
2 Cellulose

Percent Non-Fibrous Material:
98

Lab No.: 6773117
Client No.: 23-069

Analyst Observation: Tan Mastic
Client Description: Yellow Carpet Mastic

Location: Entry To Northeast Bedroom
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
2 Cellulose

Percent Non-Fibrous Material:
98

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773118
Client No.: 24-070

Analyst Observation: Off-White Floor Tile
Client Description: 12x12 Tan Floor Tile With Yellow Mastic

Location: Around Cabinets In Kitchen Behind Refrigerator
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773118(L2)
Client No.: 24-070

Analyst Observation: Tan Mastic
Client Description: 12x12 Tan Floor Tile With Yellow Mastic

Location: Around Cabinets In Kitchen Behind Refrigerator
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773119
Client No.: 24-071

Analyst Observation: Off-White Floor Tile
Client Description: 12x12 Tan Floor Tile With Yellow Mastic

Location: Around Cabinets In Kitchen Behind Refrigerator
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773119(L2)
Client No.: 24-071

Analyst Observation: Tan Mastic
Client Description: 12x12 Tan Floor Tile With Yellow Mastic

Location: Around Cabinets In Kitchen Behind Refrigerator
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773120
Client No.: 24-072

Analyst Observation: Off-White Floor Tile
Client Description: 12x12 Tan Floor Tile With Yellow Mastic

Location: Around Cabinets In Kitchen Behind Refrigerator
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773120(L2)
Client No.: 24-072

Analyst Observation: Tan Mastic
Client Description: 12x12 Tan Floor Tile With Yellow Mastic

Location: Around Cabinets In Kitchen Behind Refrigerator
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773121 **Client No.:** 25-073	**Analyst Observation:** Off-White Caulk **Client Description:** White Caulking	**Location:** Kitchen Near Southwest Corner Of Counter **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 6773122 **Client No.:** 25-074	**Analyst Observation:** Off-White Caulk **Client Description:** White Caulking	**Location:** Kitchen Near Southwest Corner Of Counter **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 6773123 **Client No.:** 25-075	**Analyst Observation:** Off-White Caulk **Client Description:** White Caulking	**Location:** Kitchen Near Southwest Corner Of Counter **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 6773124 **Client No.:** 26-076	**Analyst Observation:** Off-White Insulation **Client Description:** White Pipe Fittings	**Location:** Above Hot Water Tank **Facility:**
Percent Asbestos: ***PC 4.8*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: 20 Cellulose 10 Fibrous Glass	Percent Non-Fibrous Material: 65.2
Lab No.: 6773125 **Client No.:** 26-077	**Analyst Observation:** Off-White Insulation **Client Description:** White Pipe Fittings	**Location:** Above Hot Water Tank **Facility:**
Percent Asbestos: ***PC 7.3*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: 20 Cellulose 10 Fibrous Glass	Percent Non-Fibrous Material: 62.7
Lab No.: 6773126 **Client No.:** 26-078	**Analyst Observation:** Off-White Insulation **Client Description:** White Pipe Fittings	**Location:** Southeast Corner Of 2nd Floor Laundry Rm **Facility:**
Percent Asbestos: ***PC 6.8*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: 15 Cellulose 15 Fibrous Glass	Percent Non-Fibrous Material: 63.2

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773127
Client No.: 27-079

Analyst Observation: Off-White Cove Base
Client Description: 4" Yellow Cove Base With Brown Mastic

Location: 2nd Floor IT Closet Northeast Corner
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773127(L2)
Client No.: 27-079

Analyst Observation: Brown Mastic
Client Description: 4" Yellow Cove Base With Brown Mastic

Location: 2nd Floor IT Closet Northeast Corner
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
PC 0.25 *Chrysotile*	None Detected	99.75

Lab No.: 6773128
Client No.: 27-080

Analyst Observation: Off-White Cove Base
Client Description: 4" Yellow Cove Base With Brown Mastic

Location: 2nd Floor IT Closet Northeast Corner
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773128(L2)
Client No.: 27-080

Analyst Observation: Brown Mastic
Client Description: 4" Yellow Cove Base With Brown Mastic

Location: 2nd Floor IT Closet Northeast Corner
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
PC 0.25 *Chrysotile*	None Detected	99.75

Lab No.: 6773129
Client No.: 27-081

Analyst Observation: Off-White Cove Base
Client Description: 4" Yellow Cove Base With Brown Mastic

Location: 2nd Floor IT Closet Northeast Corner
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773129(L2)
Client No.: 27-081

Analyst Observation: Brown Mastic
Client Description: 4" Yellow Cove Base With Brown Mastic

Location: 2nd Floor IT Closet Northeast Corner
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
PC 0.25 *Chrysotile*	None Detected	99.75

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773130
Client No.: 28-082

Analyst Observation: White/Yellow Ceiling Tile
Client Description: 2x2 White Large Fissure Ceiling Tile

Location: 2nd Floor IT Closet At Entry
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
90 Fibrous Glass

Percent Non-Fibrous Material:
10

Lab No.: 6773131
Client No.: 28-083

Analyst Observation: White/Yellow Ceiling Tile
Client Description: 2x2 White Large Fissure Ceiling Tile

Location: 2nd Floor IT Closet At Entry
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
98 Fibrous Glass

Percent Non-Fibrous Material:
2

Lab No.: 6773132
Client No.: 28-084

Analyst Observation: White/Yellow Ceiling Tile
Client Description: 2x2 White Large Fissure Ceiling Tile

Location: 2nd Floor IT Closet At Entry
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
95 Fibrous Glass

Percent Non-Fibrous Material:
5

Lab No.: 6773133
Client No.: 29-085

Analyst Observation: Grey/White Plaster
Client Description: Plaster Ceilings

Location: 2nd Floor Restroom Southeast Corner
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773134
Client No.: 29-086

Analyst Observation: Grey/White Plaster
Client Description: Plaster Ceilings

Location: 2nd Floor Restroom Northwest Corner
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773135
Client No.: 29-087

Analyst Observation: Grey/White Plaster
Client Description: Plaster Ceilings

Location: 2nd Floor Restroom Near Entry To Shower
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773136
Client No.: 30-088
Analyst Observation: Grey/White Non-Fibrous
Client Description: Duct Insulation
Location: Middle Of Laundry Rm
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773136(L2)
Client No.: 30-088
Analyst Observation: Silver/Tan Fibrous
Client Description: Duct Insulation
Location: Middle Of Laundry Rm
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
3 Fibrous Glass

Percent Non-Fibrous Material:
97

Lab No.: 6773137
Client No.: 30-089
Analyst Observation: Grey/White Non-Fibrous
Client Description: Duct Insulation
Location: Middle Of Laundry Rm
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773137(L2)
Client No.: 30-089
Analyst Observation: Silver/Tan Fibrous
Client Description: Duct Insulation
Location: Middle Of Laundry Rm
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
3 Fibrous Glass

Percent Non-Fibrous Material:
97

Lab No.: 6773138
Client No.: 30-090
Analyst Observation: Grey/White Non-Fibrous
Client Description: Duct Insulation
Location: Middle Of Laundry Rm
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773138(L2)
Client No.: 30-090
Analyst Observation: Silver/Tan Fibrous
Client Description: Duct Insulation
Location: Middle Of Laundry Rm
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
3 Fibrous Glass

Percent Non-Fibrous Material:
97

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773139
Client No.: 31-091

Analyst Observation: White Joint Compound
Client Description: Drywall System: Drywall And Joint Compound

Location: Doorway To HVAC Rm
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6773140
Client No.: 31-092

Analyst Observation: Lt Tan Drywall
Client Description: Drywall System: Drywall And Joint Compound

Location: Northwest Bedroom Doorway
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 10 Cellulose
Percent Non-Fibrous Material: 90

Lab No.: 6773140(L2)
Client No.: 31-092

Analyst Observation: White Joint Compound
Client Description: Drywall System: Drywall And Joint Compound

Location: Northwest Bedroom Doorway
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6773140(L3)
Client No.: 31-092

Analyst Observation: Composite
Client Description: Drywall System: Drywall And Joint Compound

Location: Northwest Bedroom Doorway
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 10 Cellulose
Percent Non-Fibrous Material: 90

Lab No.: 6773141
Client No.: 31-093

Analyst Observation: Lt Tan Drywall
Client Description: Drywall System: Drywall And Joint Compound

Location: Northwest Bedroom Doorway
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 10 Cellulose
Percent Non-Fibrous Material: 90

Lab No.: 6773141(L2)
Client No.: 31-093

Analyst Observation: White Joint Compound
Client Description: Drywall System: Drywall And Joint Compound

Location: Northwest Bedroom Doorway
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773141(L3)
Client No.: 31-093
Analyst Observation: Composite
Client Description: Drywall System: Drywall And Joint Compound
Location: Northwest Bedroom Doorway
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	10 Cellulose	90

Lab No.: 6773142
Client No.: 31-094
Analyst Observation: Lt Tan Drywall
Client Description: Drywall System: Drywall And Joint Compound
Location: East Of Doorway In 1st Floor Southwest Office
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	10 Cellulose	90

Lab No.: 6773142(L2)
Client No.: 31-094
Analyst Observation: White Joint Compound
Client Description: Drywall System: Drywall And Joint Compound
Location: East Of Doorway In 1st Floor Southwest Office
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 6773142(L3)
Client No.: 31-094
Analyst Observation: Composite
Client Description: Drywall System: Drywall And Joint Compound
Location: East Of Doorway In 1st Floor Southwest Office
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	10 Cellulose	90

Lab No.: 6773143
Client No.: 31-095
Analyst Observation: Lt Tan Drywall
Client Description: Drywall System: Drywall And Joint Compound
Location: Southeast Corner Of Exercise Rm
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	10 Cellulose	90

Lab No.: 6773143(L2)
Client No.: 31-095
Analyst Observation: White Joint Compound
Client Description: Drywall System: Drywall And Joint Compound
Location: Southeast Corner Of Exercise Rm
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: 4/29/2019
Date Analyzed: 05/08/2019
Signature:
Analyst: Ellen Smith

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Terracon
611 Lunken Park Drive
Cincinnati OH 45226

Client: TER940

Report Date: 5/8/2019
Report No.: 588715 - PLM
Project: Sharonville Fire Dept
Project No.: N1197100

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773143(L3)
Client No.: 31-095

Analyst Observation: Composite
Client Description: Drywall System: Drywall And Joint Compound

Location: Southeast Corner Of Exercise Rm
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
10 Cellulose

Percent Non-Fibrous Material:
90

Lab No.: 6773144
Client No.: 32-096

Analyst Observation: Yellow Insulation
Client Description: Fiberglass Pipe Insulation With Tan Wrap

Location: On Platform In Garage Near Northeast Bay Door
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
100 Fibrous Glass

Percent Non-Fibrous Material:
None Detected

Lab No.: 6773144(L2)
Client No.: 32-096

Analyst Observation: Off-White/Silver Insulation
Client Description: Fiberglass Pipe Insulation With Tan Wrap

Location: On Platform In Garage Near Northeast Bay Door
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
65 Cellulose
3 Fibrous Glass

Percent Non-Fibrous Material:
32

Lab No.: 6773145
Client No.: 32-097

Analyst Observation: Yellow Insulation
Client Description: Fiberglass Pipe Insulation With Tan Wrap

Location: Above Hot Water Heater
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
100 Fibrous Glass

Percent Non-Fibrous Material:
None Detected

Lab No.: 6773145(L2)
Client No.: 32-097

Analyst Observation: Off-White/Silver Insulation
Client Description: Fiberglass Pipe Insulation With Tan Wrap

Location: Above Hot Water Heater
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
55 Cellulose
3 Fibrous Glass

Percent Non-Fibrous Material:
42

Lab No.: 6773146
Client No.: 32-098

Analyst Observation: Yellow Insulation
Client Description: Fiberglass Pipe Insulation With Tan Wrap

Location: Above Hot Water Heater
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
100 Fibrous Glass

Percent Non-Fibrous Material:
None Detected

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

Date Received: 4/29/2019
Date Analyzed: 05/08/2019
Signature:
Analyst: Ellen Smith

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Terracon
611 Lunken Park Drive
Cincinnati OH 45226

Client: TER940

Report Date: 5/8/2019
Report No.: 588715 - PLM
Project: Sharonville Fire Dept
Project No.: N1197100

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773146(L2)
Client No.: 32-098

Analyst Observation: Off-White/Silver Insulation
Client Description: Fiberglass Pipe Insulation With Tan Wrap

Location: Above Hot Water Heater
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
55 Cellulose
3 Fibrous Glass

Percent Non-Fibrous Material:
42

Lab No.: 6773147
Client No.: 33-099

Analyst Observation: Off-White/Silver Insulation
Client Description: Off-White Duct Insulation

Location: 1st Floor To Doorway To Stairs
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773148
Client No.: 33-100

Analyst Observation: Off-White/Silver Insulation
Client Description: Off-White Duct Insulation

Location: Northwest End Of Living Rm
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773149
Client No.: 33-101

Analyst Observation: Off-White/Silver Insulation
Client Description: Off-White Duct Insulation

Location: Northwest End Of Living Rm
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773150
Client No.: 34-102

Analyst Observation: White Caulk
Client Description: White Caulking

Location: Along Steps To 2nd Floor Top Of Stairs
Facility:

Percent Asbestos:
PC 1.2 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.8

Lab No.: 6773151
Client No.: 34-103

Analyst Observation: Lt Tan Caulk
Client Description: White Caulking

Location: Along Steps To 2nd Floor At Landing
Facility:

Percent Asbestos:
PC 1.3 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.7

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

Date Received: 4/29/2019
Date Analyzed: 05/08/2019
Signature:
Analyst: Ellen Smith

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Terracon
611 Lunken Park Drive
Cincinnati OH 45226

Client: TER940

Report Date: 5/8/2019
Report No.: 588715 - PLM
Project: Sharonville Fire Dept
Project No.: N1197100

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773152 **Client No.:** 34-104	**Analyst Observation:** Lt Tan Caulk **Client Description:** White Caulking	**Location:** Along Steps To 2nd Floor Bottom Of Stairs **Facility:**
Percent Asbestos: ***PC 1.2*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 98.8
Lab No.: 6773153 **Client No.:** 35-105	**Analyst Observation:** Brown Caulk **Client Description:** Brown Exterior Door Caulking	**Location:** 1st Floor Office Entry **Facility:**
Percent Asbestos: ***PC 0.25*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 99.75
Lab No.: 6773154 **Client No.:** 35-106	**Analyst Observation:** Brown Caulk **Client Description:** Brown Exterior Door Caulking	**Location:** 1st Floor Garage Entry **Facility:**
Percent Asbestos: ***PC Trace*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 6773155 **Client No.:** 35-107	**Analyst Observation:** Brown Caulk **Client Description:** Brown Exterior Door Caulking	**Location:** 2nd Floor East Exit Door **Facility:**
Percent Asbestos: ***PC Trace*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 6773156 **Client No.:** 36-108	**Analyst Observation:** Tan Caulk **Client Description:** Brown Caulking	**Location:** Northeast Corner Of Workout Rm **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 6773157 **Client No.:** 36-109	**Analyst Observation:** Tan Caulk **Client Description:** Brown Caulking	**Location:** Northeast Back Garage Door **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100

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

Date Received: 4/29/2019
Date Analyzed: 05/08/2019
Signature:
Analyst: Ellen Smith

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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ASBESTOS TESTING LABORATORIES

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Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Terracon
611 Lunken Park Drive
Cincinnati OH 45226

Client: TER940

Report Date: 5/8/2019
Report No.: 588715 - PLM
Project: Sharonville Fire Dept
Project No.: N1197100

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6773158
Client No.: 36-110

Analyst Observation: Tan Caulk
Client Description: Brown Caulking

Location: Middle-Front Garage Door
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6773159
Client No.: 37-111

Analyst Observation: Grey Caulk
Client Description: Exterior Window Caulking

Location: Northwest Window On North Side Of Bldg
Facility:

Percent Asbestos:
PC 1.2 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.8

Lab No.: 6773160
Client No.: 37-112

Analyst Observation: Grey Caulk
Client Description: Exterior Window Caulking

Location: North Middle Window On North Side Of Bldg
Facility:

Percent Asbestos:
PC 1.3 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.7

Lab No.: 6773161
Client No.: 37-113

Analyst Observation: White Caulk
Client Description: Exterior Window Caulking

Location: Northeast Window On North Side Of Bldg
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

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

Date Received: 4/29/2019
Date Analyzed: 05/08/2019
Signature:
Analyst: Ellen Smith

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	5/8/2019
	611 Lunken Park Drive	Report No.:	588715 - PLM
	Cincinnati OH 45226	Project:	Sharonville Fire Dept
		Project No.:	N1197100
Client:	TER940		

Appendix to Analytical Report

Customer Contact:
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 ir 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)

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Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	5/8/2019
	611 Lunken Park Drive	Report No.:	588715 - PLM
	Cincinnati OH 45226	Project:	Sharonville Fire Dept
		Project No.:	N1197100
Client:	TER940		

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.

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CERTIFICATE OF ANALYSIS

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Cincinnati OH 45226

Client: TER940

Report Date: 5/8/2019
Report No.: 588715 - PLM
Project: Sharonville Fire Dept
Project No.: N1197100

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).

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ASBESTOS TESTING LABORATORIES

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Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Chain of Custody

–Bulk Asbestos –

Contact Information

Client Company:	Terracon Consultants, Inc.	**Project Number:**	N1197100
Office Address:	611 Lunken Park Drive	**Project Name:**	Sharonville Fire Dept.
City, State, Zip:	Cincinnati, OH 45226	**Primary Contact:**	Joshua Vogel
Fax Number:	513-321-0294	**Office Phone:**	513-612-9085
Email Address:	joshua.vogel@terracon.com	**Cell Phone:**	513-332-5034

PLM Instructions:

- ■ PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993
- ☐ PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982
- ☐ PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985
- ☐ PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002
- ☐ PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010
- ☐ TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009

- ■ PLM: Point Counting
  - ☐ PC: via ELAP 198.1
  - ■ PC: 400 Points
  - ☐ PC: 800 Points *
  - ☐ PC: 1600 Points *
- ■ PLM: Instructions for Multi-Layered Samples
  - ■ Analyze and Report All Separable Layers per EPA 600
  - ■ Report Composite for Drywall Systems per NESHAP
  - ☐ Report All Layers and Composite Where Applicable
  - ☐ Only Analyze and Report Specifically Noted Layer

- ☐ PLM: Analyze Until Positive (Positive Stop)
  - ☐ AUP: by Homogenous Area as Noted
  - ☐ AUP: by Material Type as Noted
- ☐ PLM: NOB via 198.6
  - ☐ PLM: Friable via EPA 600 2.3
  - ☐ If <1% by PLM, to TEM via 198.4 *
  - ☐ If <1% by PLM, Hold for Instructions
- ☐ PLM: Non-Building Material*,** (Dust, Wipe, Tape)
  - ☐ Soil or Vermiculite Analysis*
  - ☐ CARB 435

Special Instructions: _____

** Additional charge and turnaround may be required* *** Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory*

Turnaround Time

Preliminary Results Requested Date: _____ (Specific date / time)

☐ Verbal ■ Email ☐ Fax

☐ 10 Day ■ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day* ☐ 12 Hour** ☐ 6 Hour** ☐ RUSH**

* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***

Chain of Custody

Relinquished (Name/Organization):	[signature]	Date:	4/26/19	Time:	
Received (Name / iATL):		Date:		Time:	
Sample Login (Name / iATL):		Date:		Time:	
Analysis(Name(s) / iATL):	LSC 5-7-19	Date:		Time:	
QA/QC Review (Name / iATL):		Date:	5/9/19	Time:	
Archived / Released: _____	QA/QC InterLAB Use: _____	Date:		Time:	

APR 29 2019

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Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Chain of Custody

–Bulk Asbestos –

Contact Information

Client Company:	Terracon Consultants, Inc.	**Project Number:**	N1197100
Office Address:	611 Lunken Park Drive	**Project Name:**	Sharonville Fire Dept.
City, State, Zip:	Cincinnati, OH 45226	**Primary Contact:**	Joshua Vogel
Fax Number:	513-321-0294	**Office Phone:**	513-612-9085
Email Address:	joshua.vogel@terracon.com	**Cell Phone:**	513-332-5034

PLM Instructions:

- ■ PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993
- ☐ PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982
- ☐ PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985
- ☐ PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002
- ☐ PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010
- ☐ TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009

- ■ PLM: Point Counting
  - ☐ PC: via ELAP 198.1
  - ■ PC: 400 Points
  - ☐ PC: 800 Points *
  - ☐ PC: 1600 Points *
- ■ PLM: Instructions for Multi-Layered Samples
  - ■ Analyze and Report All Separable Layers per EPA 600
  - ■ Report Composite for Drywall Systems per NESHAP
  - ☐ Report All Layers and Composite Where Applicable
  - ☐ Only Analyze and Report Specifically Noted Layer
- ☐ PLM: Analyze Until Positive (Positive Stop)
  - ☐ AUP: by Homogenous Area as Noted
  - ☐ AUP: by Material Type as Noted
- ☐ PLM: NOB via 198.6
  - ☐ PLM: Friable via EPA 600 2.3
  - ☐ If <1% by PLM, to TEM via 198.4 *
  - ☐ If <1% by PLM, Hold for Instructions
- ☐ PLM: Non-Building Material*,** (Dust, Wipe, Tape)
  - ☐ Soil or Vermiculite Analysis*
  - ☐ CARB 435

Special Instructions: _____

** Additional charge and turnaround may be required* *** Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory*

Turnaround Time

Preliminary Results Requested Date: _____ (Specific date / time) ☐ Verbal ■ Email ☐ Fax

☐ 10 Day ■ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day* ☐ 12 Hour** ☐ 6 Hour** ☐ RUSH**

* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***

Chain of Custody

Relinquished (Name/Organization):	[signature]	Date: 4/26/19	Time:
Received (Name / iATL):		Date:	Time:
Sample Login (Name / iATL):		Date:	Time:
Analysis(Name(s) / iATL):	[signature]	Date: 5/8/19	Time:
QA/QC Review (Name / iATL):		Date: 5/9/19	Time:
Archived / Released: _____ QA/QC InterLAB Use: _____		Date:	Time:

SUSPECT ACM - BULK MATERIAL SAMPLE LOG

Date: April 26, 2019
Inspector: Joshua Vogel and Lemuel Weyer
Project: Sharonville Fire Department
Project # N1197100

Terracon
611 Lunken Park Drive
Cincinnati, Ohio 45226
(513) 321.5816

Sample #		Sample Material Description	Sample Location	HA Location(s)	Results (% / Type of Asbestos)
HA #	SEQ. #				
1	001	EPDM Roofing with Black Tar, Black Tar Paper and Foam	Southeast Corner	Main Building Roof	6773049
	002		Northeast Corner		6773050
	003		Northwest Corner		6773051
2	004	EDPM Flashing with Brown Mastic	Southeast Corner	Main Building Roof	
	005		Northeast Corner		6773053
	006		Northwest Corner		6773054
3	007	White Caulking with Black Tar	Northwest	North Parapet Wall of Main Roof	6773055
	008		Center of Wall		6773056
	009		Northeast		6773057
4	010	EPDM Roofing with Black Tar, Black Tar Paper and Foam	Southeast Corner	Garage Roof	6773058
	011		Southwest Corner		6773059
	012		Northwest Corner		6773060
5	013	EDPM Flashing with Black Tar	Southeast Corner	Garage Roof	6773061
	014		Southwest Corner		6773062
	015		Northwest Corner		6773063

LSP 5-7-19

Sample #		Sample Material Description	Sample Location	HA Location(s)	Results (% / Type of Asbestos)
HA #	SEQ. #				
6	016	White Caulking	North Side	Associated with Vent in Southeast Corner of Garage Roof	6773064
	017		North Side		6773065
	018		South Side		6773066
7	019	Grey Mastic	North End	Associated with Duct Work of Garage Roof	6773067
	020		North End		6773068
	021		South End		6773069
8	022	Brown Expansion Caulking	Northeast Side of Garage Roof	Exterior Wall	6773070
	023		Middle North Wall of Garage		6773071
	024		Middle South Wall of Main Building		6773072
9	025	Brown Door Caulking	North Hatch Doorway	Hatch to Garage Roof	6773073
	026		South Hatch Doorway		6773074
	027		South Hatch Doorway		6773075
10	028	12" x 12" White Floor Tile with Grey Flashes and Black and Yellow Mastic	Entrance to 1st Floor Laundry Room	Throughout Facility	6773076
	029		Doorway to IT Closet		6773077
	030		2nd Floor East Exit Doorway		6773078
11	031	2' x 2' White Small Fissure Ceiling Tile	1st Floor at Doorway to Stairs	Throughout Facility	6773079
	032		At Doorway to Roof Hatch		6773080
	033		Middle Closet near Bedrooms		6773081

LSP S-7118

Sample #		Sample Material Description	Sample Location	HA Location(s)	Results (% / Type of Asbestos)
HA #	SEQ. #				
12	034	4" Blue Cove Base with Tan Mastic	1st Floor Hallway- East of Exit Door	Throughout Facility	6773084
	035		Near 2nd Floor East Exit Door		6773085
	036		Near 2nd Floor Restroom		6773084
13	037	2' x 4' Drywall Ceiling Tile	On Platform Near Northeast Bay Door	Garage Ceiling	6773085
	038		On Platform Near Northeast Bay Door		6773086
	039		On Platform Near Northeast Bay Door		6773087
14	040	Black Interior Window Caulking	West Side of Southeast Window	Garage Southeast Window	6773088
	041		West Side of Southeast Window		6773089
	042		West Side of Southeast Window		6773090
15	043	Brown Door Caulking	1st Floor Hallway Exit Door	North Exit Door in Garage, North Exit in 1st Floor Hallway	6773091
	044		North Exit Door in Garage		6773092
	045		North Exit Door in Garage		6773093
16	046	White Expansion Caulking	Northeast Corner	Corners of Garage Walls	
	047		Northeast Corner		6773094 6773095
	048		Northeast Corner		6773096
17	049	White Door Caulking	1st Floor Southwest Office Doorway	Throughout Facility	6773097
	050		At Kitchen Doorway		6773098
	051		At 2nd Floor Restroom Door		6773099

Sample #		Sample Material Description	Sample Location	HA Location(s)	Results (% / Type of Asbestos)
HA #	SEQ. #				
18	052	12" x 12" Tan Floor Tile with Black Mastic	Northwest Corner	1st Floor Hallway Closet	6773100
	053		Northwest Corner		677310_
	054		Northwest Corner		6773104
19	055	Brown 1" x 1" Ceramic Floor Tile with Mortar and Grout	Southwest Corner of Women's Restroom	Men's and Women's 1st Floor Restroom, 2nd Floor Restroom	6773103
	056		Southwest Corner of Women's Restroom		6773104
	057		Southwest Corner of Men's 1st Floor Restroom		6773105
20	058	2"'x 2"' Brown Ceramic Wall Tile, Mortar and Mastic	Southeast Corner of Men's 1st Floor Restroom	Men's 1st Floor Restroom, 2nd Floor Restroom	6773106
	059		Southeast Corner of Men's 1st Floor Restroom		6773107
	060		Southeast Corner of Men's 1st Floor Restroom		6773108
21	061	2"x 2" Brown Ceramic Wall Tile, Mortar and Mastic	Southeast Corner	Women's 1st Floor Restroom	6773109
	062		Southeast Corner		6773110
	063		Southeast Corner		6773111
22	064	White 2' x 4' Large Fissure Ceiling Tile	Southwest Corner	Workout Room	6773112
	065		Northwest Corner		6773113
	066		Northeast Corner		6773114
23	067	Yellow Carpet Mastic	Entry to Middle Closet Near Bedrooms	2nd Floor Bedrooms and Northeast Storage Closets	6773115
	068		Entry to Middle Closet Near Bedrooms		6773116
	069		Entry to Northeast Bedroom		6773117

Sample #		Sample Material Description	Sample Location	HA Location(s)	Results (% / Type of Asbestos)
HA #	SEQ. #				
24	070	12" x 12" Tan Floor Tile with Yellow Mastic	Behind Refrigerator	Around Cabinets in Kitchen	6773118
	071		Behind Refrigerator		6773119
	072		Behind Refrigerator		6773120
25	073	White Caulking	Near Southwest Corner of Counter	Around Countertop in Kitchen	6773121
	074		Near Southwest Corner of Counter		6773122
	075		Near Southwest Corner of Counter		6773123
26	076	White Pipe Fittings	Above Hot Water Tank	Ceilings, Above Ceiling Tiles Throughout Facility	6773124
	077		Above Hot Water Tank		6773125
	078		Southeast Corner of 2nd Floor Laundry Room		6773126
27	079	4" Yellow Cove Base with Brown Mastic	Northeast Corner	2nd Floor IT Closet	6773127
	080		Northeast Corner		6773128
	081		Northeast Corner		6773129
28	082	2" x 2" White Large Fissure Ceiling Tile	At Entry	2nd Floor IT Closet	6773130
	083		At Entry		6773131
	084		At Entry		6773132
29	085	Plaster Ceilings	Southeast Corner	2nd Floor Restroom	6773133
	086		Northwest Corner		6773134
	087		Near Entry to Shower		6773135

Sample #		Sample Material Description	Sample Location	HA Location(s)	Results (% / Type of Asbestos)
HA #	SEQ. #				
30	088	Duct Insulation	Middle of Laundry Room	Laundry Room, HVAC Room	6773136
	089		Middle of Laundry Room		6773137
	090		Middle of Laundry Room		6773138
31	091	Drywall System: Drywall and Joint Compound	Doorway to HVAC Room	Throughout Facility	6773139
	092		Northwest Bedroom Doorway		6773140
	093		Northwest Bedroom Doorway		6773142
	094		East of Doorway in 1st Floor Southwest Office		6773142
	095		Southeast Corner of Exercise Room		6773143
32	096	Fiberglass Pipe Insulation with Tan Wrap	On Platform in Garage Near Northeast Bay Door	Throughout Ceilings, HVAC Room	6773144
	097		Above Hot Water Heater		6773145
	098		Above Hot Water Heater		6773146
33	099	Off- White Duct Insulation	1st Floor at Doorway to Stairs	Duct Work Throughout Facility	6773147
	100		Northwest End of Living Room		6773148
	101		Northwest End of Living Room		6773149
34	102	White Caulking	Top of Stairs	Along Steps to 2nd Floor	6773150
	103		At Landing		6773151
	104		Bottom Step		6773152
35	105	Brown Exterior Door Caulking	1st Floor Office Entry	Entry Doors to Building (6 Doors)	6773153

Sample #		Sample Material Description	Sample Location	HA Location(s)	Results (% / Type of Asbestos)
HA #	SEQ. #				
	106		1st Floor Garage Entry		6773154
	107		2nd Floor East Exit Door		6773155
36	108	Brown Caulking	Northeast Corner of Workout Room	Associated with Garage Doors on Main Garage and Workout Room	6773156
	109		Northeast Back Garage Door		6773157
	110		Middle – Front Garage Door		6773158
37	111	Exterior Window Caulking	Northwest Window on North Side of Building	Exterior Windows	6773159
	112		North Middle Window on North Side of Building		6773160
	113		Northeast Window on North Side of Building		6773161

APPENDIX D

LICENSES AND CERTIFICATIONS

Ohio Environmental Protection Agency

Mike DeWine, Governor
Jon Husted, Lt. Governor
Laurie A. Stevenson, Director

January 31, 2019

Joshua Vogel
Terracon
611 Lunken Park Drive
Cincinnati OH 45226

RE: Asbestos Hazard Evaluation Specialist
Certification Number: ES35291
Expiration Date: 03/03/2020

Dear Joshua Vogel:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Environmental Protection Agency for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

If you have any questions, please call 614-644-0226.

Sincerely,

Joshua S. Koch
Manager, Business Operations Support Section
Division of Air Pollution Control

State of Ohio
Environmental Protection Agency
Asbestos Program

Asbestos Hazard Evaluation Specialist

Lemuel Wever

3756 West Fork Rd.
Cincinnati OH 45247

Ohio Environmental Protection Agency

DOB: 12/14/1994

Certification Number
ES36337

Expiration Date
08/03/2019

This certification is issued pursuant to Revised Code Chapter 3710 and Administrative Code Chapter 3745-22.

This card is not valid if altered.

APPENDIX E

PHOTOS

Photo 1 HA6: Asbestos-Containing Exterior White Vent Caulking.	**Photo 2 HA8:** Asbestos-Containing Brown Wall Expansion Caulking.
Photo 3 HA9: Asbestos-Containing Exterior Brown Hatch Door Caulking.	**Photo 4 HA10:** Asbestos-Containing Black Mastic Beneath Non-Asbestos-Containing 12” x 12” White Floor Tile with Grey Flashes
Photo 5 HA14: Asbestos-Containing Black Interior Window Frame Caulking.	**Photo 6 HA16:** Asbestos-Containing Interior White Expansion Caulking.

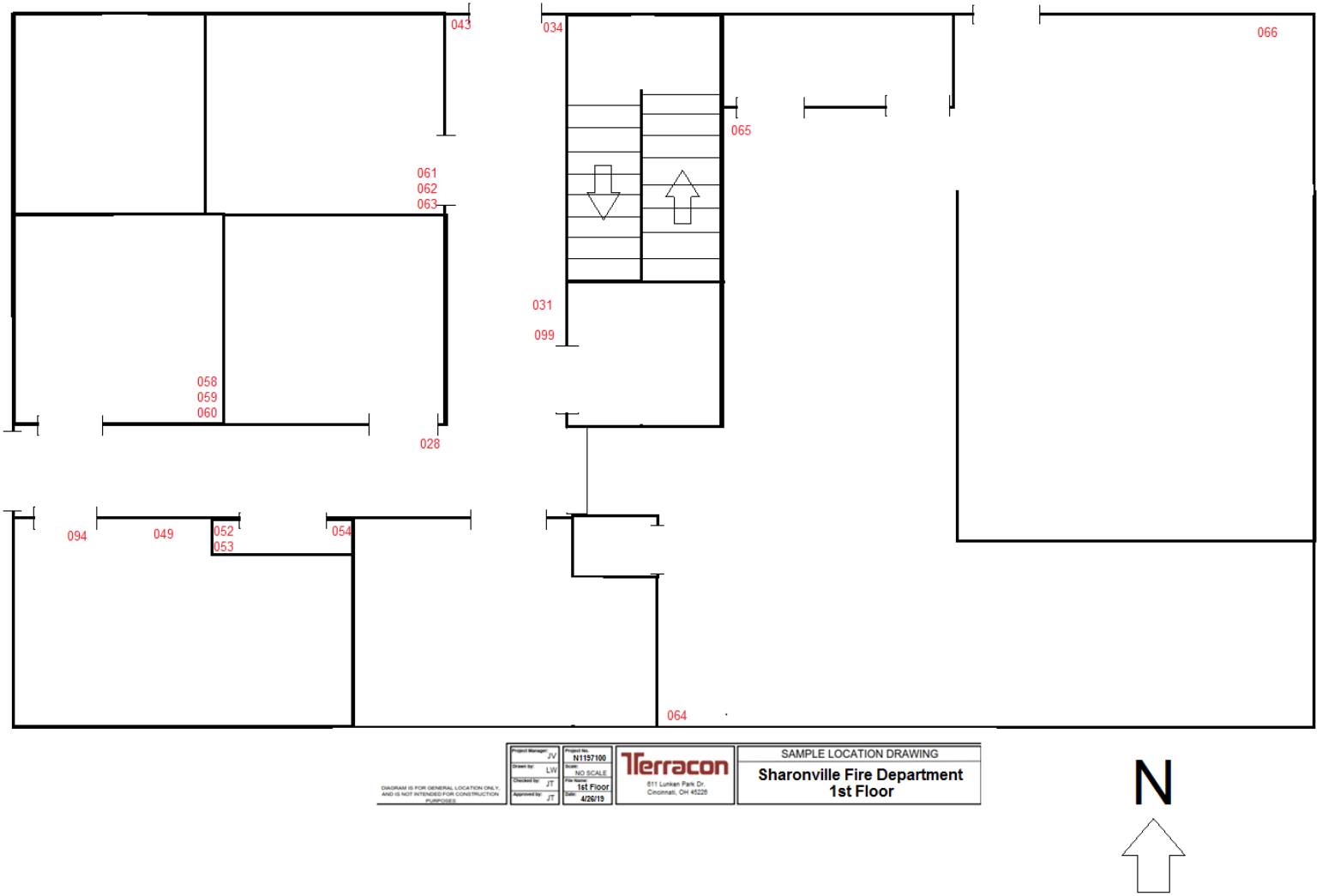
Photo 7 HA17: Asbestos-Containing White Interior Door Frame Caulking.	**Photo 8 HA18:** Asbestos-Containing 12” x 12” Tan Floor Tile and Asbestos-Containing Black Mastic.
Photo 9 HA26: Asbestos-Containing White Pipe Fitting Insulation Associated with Non-Asbestos-Containing Fiberglass Insulated Water Lines.	**Photo 10 HA27:** Asbestos-Containing Brown Mastic (<1%) Behind Non-Asbestos-Containing 4” Yellow Cove Base.
Photo 11 HA34: Asbestos-Containing Interior White Stair Stringer Caulking.	**Photo 12 HA35:** Asbestos-Containing Brown Exterior Door Frame Caulking.

Photo 13 HA37: Asbestos-Containing Grey Exterior Window Frame Caulking

APPENDIX F

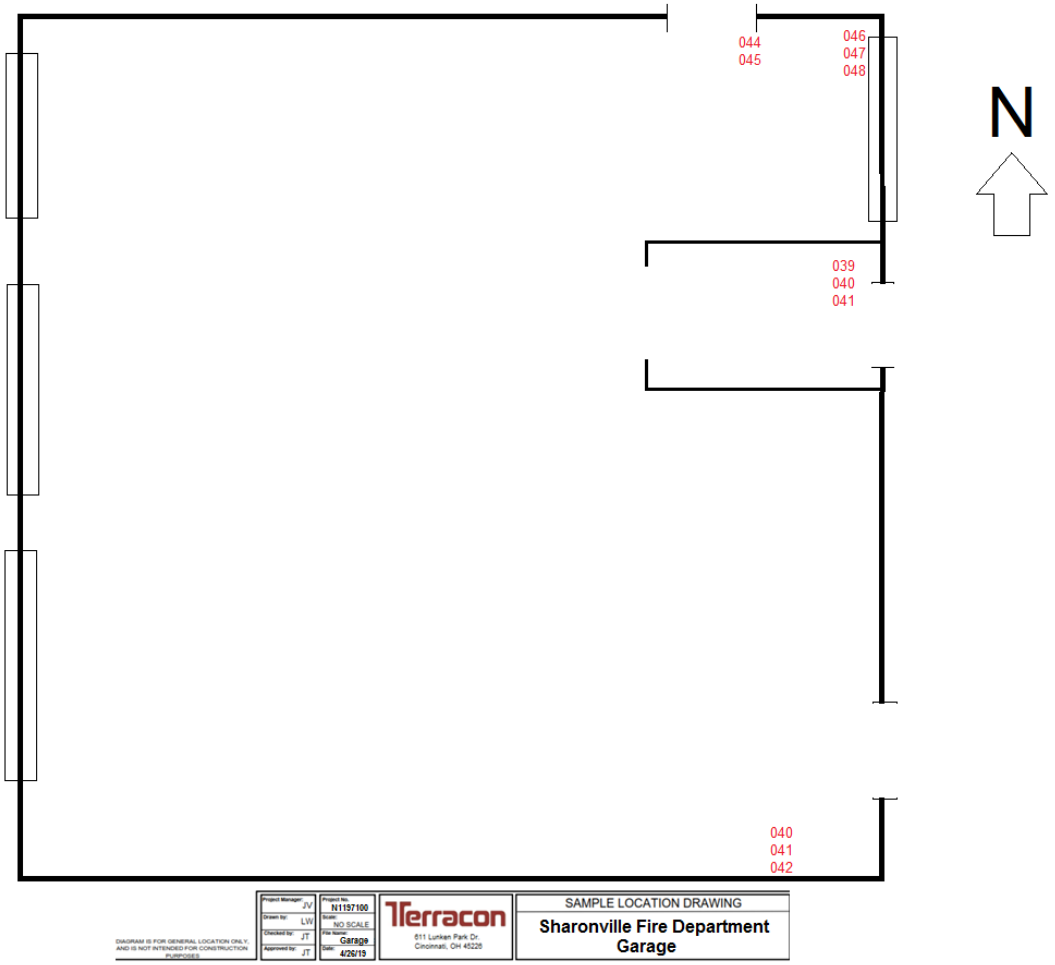
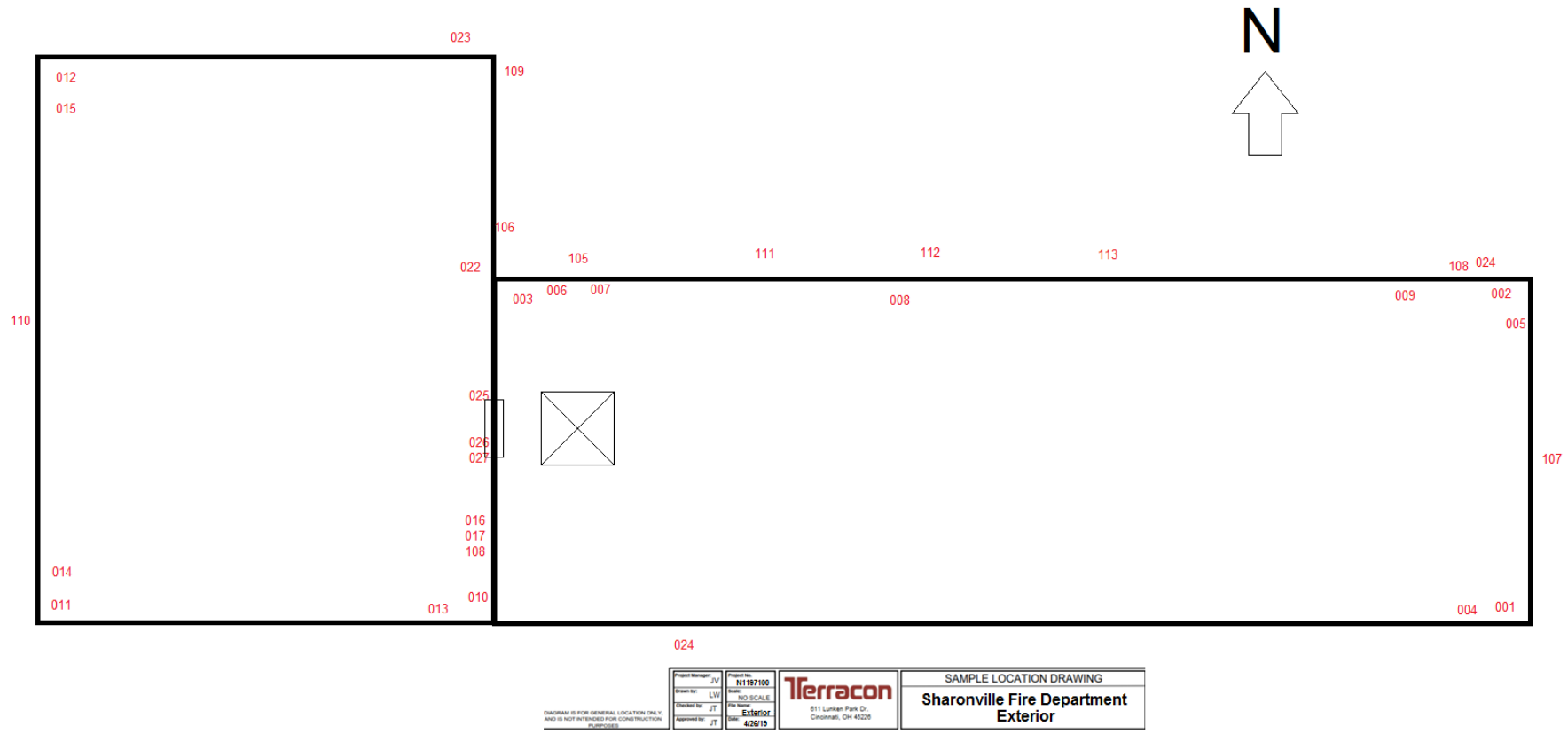
SAMPLE LOCATION DRAWINGS

Sample Location Drawing – 1st Floor



Sample Location Drawing – 2nd Floor

Sample Location Drawing - Garage



Sample Location Drawing – Exterior