



**REPORT OF THE NESHAP DEMOLITION SURVEY, SAMPLING AND
EVALUATION OF ASBESTOS-CONTAINING MATERIALS**

at the

**COMMERCIAL BUILDING
195 ROWE STREET
AVON PARK, FLORIDA**

**July 7, 2020
GE Project Number 4049-0100.2**

Submitted to:

**City Of Avon Park
Mr. Robert Trevino
Public Works Superintendent
119 East Main Street
Avon Park, Florida 33825**

Prepared by:

**Greenfield Environmental, Inc.
432 3rd Street North
St. Petersburg, Florida 33701**

EXECUTIVE SUMMARY

The survey and laboratory analysis conducted at the commercial building located at 195 Rowe Street in Avon Park, Florida indicated that one (1) of the materials sampled was found to contain asbestos in amounts greater than one (1) percent. This material is a friable (Regulated) vinyl floor sheeting.

This asbestos containing material must be properly removed by a Florida Licensed Asbestos Abatement Contractor prior to demolition activities that will impact the material. Proper notification must be provided to the local regulatory agency prior to asbestos abatement and demolition activities.

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1.0 INTRODUCTION

A survey for asbestos-containing materials (ACMs) was conducted by Greenfield Environmental, Inc. (GE) at the commercial building located at 195 Rowe Street in Avon Park, Florida. The survey was performed on June 25, 2020 by Nicholas Barron, Accredited EPA Inspector for GE., GE is a Florida Licensed Asbestos Consulting Firm with a corresponding license number of ZA-0000268.

The survey was conducted in order to identify any asbestos-containing materials which may exist prior to demolition activities in accordance with the National Emissions Standard for Hazardous Air Pollutants (NESHAP) Regulation.

More specifically, our scope of services for this project consisted of the five following steps:

- Site Walk-Through and Observations,
- Bulk Sampling of Suspect ACMs,
- Polarized Light Microscopy (PLM) Analysis of Bulk Samples,
- Hazard Assessment and Evaluation, and
- Final Report Development.

The findings of this report represent GE's best professional judgement and no other warranty is expressed or implied. This report is intended only for the use of the **CITY OF AVON PARK** and its agents. The contents should not be relied upon by any other parties without the expressed written consent of GE.

2.0 FACILITY DESCRIPTION

The commercial building was observed to be a two-story structure constructed of concrete, wood, and brick on a concrete slab foundation. The interior finishes consist of plaster systems, drywall systems, brick and mortar, ceiling tile, wall panels, wood panel, carpet, vinyl floor sheeting, and bare concrete floors. The doors were observed to be solid wood. The HVAC system consisted of a split system with metal duct, flexduct and fiberglass ductboard. The building exterior is finished with stucco and brick and mortar. The roof is finished with a flat asphalt rolled roof system and roofing mastic. The roof is collapsed and significant water damaged exists in the interior areas. Samples were collected from debris piles where necessary.

3.0 SURVEY METHODS AND LABORATORY ANALYSIS

The sampling conducted in this asbestos survey was performed in accordance with Title 40, Code of Federal Regulations (CFR), Part 763 for suspect ACMs. The EPA regulations require that sample locations be randomly selected. All suspect asbestos-containing materials and PACM (materials presumed to contain asbestos under the OSHA Asbestos Rule, 29 CFR 1910) were identified and samples of each different material were obtained.

The bulk sampling procedure utilized for collection of suspect samples required the establishment of homogeneous sampling areas. A homogeneous sampling area is defined as an area of friable or non-friable material of similar type that appeared to be applied or installed during the same general period of time. All sample locations were identified with numbers corresponding to those listed in Section 5.0 "Description of Materials" of this report.

Samples which were collected from these pre-determined homogeneous sampling areas were labeled and transported to Air Quality Environmental, Inc. (NVLAP No. 200759-0) for analysis. All samples were analyzed using EPA approved Polarized Light Microscopy (PLM) coupled with dispersion staining. Properties such as refractive indices, birefringence, sign of elongation and extinction angle are unique to crystalline asbestos forms and are used to identify the type of asbestos mineral as chrysotile, amosite, crocidolite, anthophyllite, tremolite or actinolite. Percentages of the identified types of asbestos are determined by visual estimation. Attempts are made to mix the sample thoroughly to provide a more accurate percentage. Any material containing greater than one percent (1%) by weight of any type of asbestos is considered by the EPA to be an ACM and if disturbed must be handled according to specific regulations.

4.0 SUSPECTED ASBESTOS-CONTAINING MATERIALS

The following is a summary of the materials sampled during the survey and evaluation of the structure:

- Plaster Systems
- Drywall Systems
- Fiberboard
- Ceiling Tile
- Vinyl Floor Sheeting with Mastic
- Wall Mastic
- Caulking
- Concrete
- Brick and Mortar
- Stucco
- Asphalt Rolled Roofing
- Roofing Mastic

5.0 DESCRIPTION OF MATERIALS

The following is a description of the materials assessed at the commercial building:

Homo. Area	Sample Number	Description/ Location	Asbestos Content	Friability	Condition	Approx. Quantity
01	01 02 03 04 05	Drywall System Located at Select Wall Areas and Debris Piles	No Asbestos Detected	Friable	Fair	----
02	06 07 08	White and Blue Tile Patterned Vinyl Floor Sheeting Located at the First Floor Bathroom Floor Areas	Vinyl - 30% Chrysotile Asbestos Yellow Mastic - No Asbestos Detected Tan Thinset - No Asbestos Detected	Friable	Good	75 Square Feet
03	09 10 11	White and Gold Laminate Wall Coverings with Brown Mastic Located at the First Floor Bathroom Wall Areas	No Asbestos Detected	Non-Friable	Good	----
04	12 13 14	White Dot and Worm Ceiling Tile Located at the First Floor Ceiling Areas, Second Floor Ceiling Areas, and Debris Piles	No Asbestos Detected	Friable	Fair	----
05	15 16 17	Tan Brick and White Mortar Located at the Fireplace	No Asbestos Detected	Non-Friable	Good	----
06	18 19 20	Tan Brick and White Mortar Located at the Chimney Structure and Perimeter Wall Areas	No Asbestos Detected	Non-Friable	Good	----

Homo. Area	Sample Number	Description/ Location	Asbestos Content	Friability	Condition	Approx. Quantity
07	21 22 23	Orange Brick and White Mortar Located at the East Building Sub Wall under Stucco Areas	No Asbestos Detected	Non-Friable	Good	----
08	24 25 26	Pegboard Located at the Southwest Second Floor Room Wall Areas	No Asbestos Detected	Non-Friable	Good	----
09	27 28 29	Drywall System Located at the Second Floor Central Wall Areas and First Floor Storage Closet under the Stairwell	No Asbestos Detected	Friable	Good	----
10	30 31 32	Roof Debris with Silver and Black Mastic Located at the Second Floor Throughout	No Asbestos Detected	Non-Friable	Poor	----
11	33 34 35	Insulated Duct Wrap with Black Mastic and Brown Backing Located at the Second Floor South Closet Ceiling Area	No Asbestos Detected	Friable	Good	----
12	36 37 38	Insulation Located at the Second Floor Floor Areas and Staircase Area	No Asbestos Detected	Friable	Fair	----
13	39 40 41	Brick Patterned Wall Paneling Located at the First Floor Southwest Room Wall Areas	No Asbestos Detected	Non-Friable	Good	----
14	42 43 44 45 46	Grey Stucco Located at the Exterior Wall Areas	No Asbestos Detected	Friable	Good	----
15	47 48 49	Plaster Located at the Second Floor Upper Wall Areas	No Asbestos Detected	Friable	Good	----

Homo. Area	Sample Number	Description/ Location	Asbestos Content	Friability	Condition	Approx. Quantity
16	50 51 52	Pink Insulation with Black Mastic and Tan Backing Located at the Wall Interior Areas	No Asbestos Detected	Friable	Good	-----
17	53 54 55	Carpet Mastic with Vinyl Floor Sheeting Remnants and Yellow Mastic Located at the Carpeted Floor Areas	No Asbestos Detected	Non-Friable	Good	-----
18	56 57 58	Grey Concrete Located at the Slab	No Asbestos Detected	Non-Friable	Good	-----
19	59 60 61	Brown Asphalt Shingle Roof System with Black Mastic Located at the North Entryway Awning Area	No Asbestos Detected	Non-Friable	Good	-----

Note - Quantities are provided for convenience and should not be used for asbestos removal contractor bidding purposes.

6.0 CONCLUSIONS

The survey and laboratory analysis conducted at the commercial building located at 198 Rowe Street in Avon Park, Florida indicated that of the sixty-one (61) samples collected, one (1) of the materials sampled was found to contain asbestos in amounts greater than one (1) percent. This material is a friable (Regulated) material in the form of vinyl floor sheeting.

A friable (Regulated) material was discovered during our inspection in the form of vinyl floor sheeting. Friable ACMs are materials that which contain 1% asbestos or greater and when dry may be crumbled or reduced to powder by hand pressure. Friable ACMs pose the greatest threat to human health because of the tendency to release harmful asbestos fibers into the air when disturbed.

This asbestos containing material must be properly removed by a Florida Licensed Asbestos Abatement Contractor prior to demolition activities that will impact the material. Proper notification must be provided to the local regulatory agency prior to asbestos abatement and demolition activities.

PROFESSIONAL CERTIFICATIONS

The discussions and conclusions contained in this asbestos survey have been prepared and reviewed by the following certified professionals.



Nicholas E. Barron
Project Manager
AHERA Inspector #06082004PM



Michael W. Rothenburg, PE
Florida Licensed Asbestos Consultant
#EA0000041

APPENDIX A

PLM LABORATORY ANALYTICAL RESULTS



Air Quality Environmental, Inc.

Laboratory Services

9325 Seminole Boulevard, Seminole, Florida 33772 (727) 398-0900 FAX (727) 398-0996

Client Name: Greenfield Environmental
432 3rd Street North
St. Petersburg, Florida 33701

Project Name: City of Avon Park #4049-0100
198 Rowe Street, Avon Park, FL
Date Analyzed: June 30, 2020

Asbestos, Bulk Sample Analysis Test Method: PLM / DS - EPA Method - 600/R-93/116 - EPA Appx E to Subpart E of Part 763

Lab #	Client #	Sample Type	Description	% Asbestos	% Other Fibers	% Binders
485465	1	Drywall System	wht compound	NAD		100% Binders
			drywall mat	NAD	100% Cellulose	
			drywall powder	NAD	3% Glass Fibers 2% Cellulose	95% Gypsum and Binders
485466	2	Drywall System	wht compound	NAD		100% Binders
			drywall mat	NAD	100% Cellulose	
			drywall powder	NAD	3% Glass Fibers 2% Cellulose	95% Gypsum and Binders
485467	3	Drywall System	wht compound	NAD		100% Binders
			drywall mat	NAD	100% Cellulose	
			drywall powder	NAD	3% Glass Fibers 2% Cellulose	95% Gypsum and Binders
485468	4	Drywall System	wht compound	NAD		100% Binders
			drywall mat	NAD	100% Cellulose	
			drywall powder	NAD	3% Glass Fibers 2% Cellulose	95% Gypsum and Binders
485469	5	Drywall System	wht compound	NAD		100% Binders
			drywall mat	NAD	100% Cellulose	
			drywall powder	NAD	3% Glass Fibers 2% Cellulose	95% Gypsum and Binders
485470	6	Sheet Vinyl	brown vinyl	30% Chrysotile	10% Cellulose	60% Carbonates and Binders
			yellow mastic	NAD		
			tan thinset	NAD		
485471	7	Sheet Vinyl	Not Analyzed, Stop At First Positive			
485472	8	Sheet Vinyl	Not Analyzed, Stop At First Positive			
485473	9	Fiberboard	tan board	NAD	60% Cellulose	40% Carbonates and Binders
			brown mastic	NAD		100% Binders

†These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than 1% asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials which are friable or may become friable, be further analyzed by point counting when the results indicate less than 10% asbestos by CVAE. Air Quality Environmental utilizes CVAE on a routine basis and does not include point counting unless specifically requested. Additionally, these results may not be reproduced except in full. This report data is to be interpreted only by the person (s) whom have collected the samples. Furthermore, this report may not be used as a claim to product certification, approval or endorsement by NVLAP, NIST or any other agency of the Federal Government.

†Floor Tile and other resinously bound materials, when analyzed by EPA method, may yield false negative results because of limitations in separating closely bound fibers and in detecting fibers of small length and diameter. When a definitive result is required, AQE recommends utilizing alternative methods of identification, including Transmission Electron Microscopy.

Analyzed by:

Giancarlo Aramburo
Microscopist

Client Name: Greenfield Environmental
 432 3rd Street North
 St. Petersburg, Florida 33701

Project Name: City of Avon Park #4049-0100
 198 Rowe Street, Avon Park, FL
 Date Analyzed: June 30, 2020

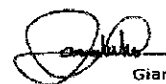
Asbestos, Bulk Sample Analysis Test Method: PLM / DS - EPA Method - 600/R-93/116 - EPA Appx E to Subpart E of Part 763

Lab #	Client #	Sample Type	Description	% Asbestos	% Other Fibers	% Binders
485474	10	Fiberboard	tan board brown mastic	NAD NAD	60% Cellulose	40% Carbonates and Binders 100% Binders
485475	11	Fiberboard	tan board brown mastic	NAD NAD	60% Cellulose	40% Carbonates and Binders 100% Binders
485476	12	Ceiling Tile	white	NAD	50% Cellulose 20% Mineral Wool	30% Perlite and Binders
485477	13	Ceiling Tile	white	NAD	50% Cellulose 20% Mineral Wool	30% Perlite and Binders
485478	14	Ceiling Tile	white	NAD	50% Cellulose 20% Mineral Wool	30% Perlite and Binders
485479	15	Brick and Mortar	tan brick white mortar	NAD NAD		100% Quartz and Binders 100% Quartz and Binders
485480	16	Brick and Mortar	tan brick white mortar	NAD NAD		100% Quartz and Binders 100% Quartz and Binders
485481	17	Brick and Mortar	tan brick white mortar	NAD NAD		100% Quartz and Binders 100% Quartz and Binders
485482	18	Brick and Mortar	tan brick white mortar	NAD NAD		100% Quartz and Binders 100% Quartz and Binders
485483	19	Brick and Mortar	tan brick white mortar	NAD NAD		100% Quartz and Binders 100% Quartz and Binders
485484	20	Brick and Mortar	tan brick white mortar	NAD NAD		100% Quartz and Binders 100% Quartz and Binders
485485	21	Building Material	orange white	NAD NAD		100% Quartz and Binders 100% Quartz and Binders
485486	22	Building Material	orange white	NAD NAD		100% Quartz and Binders 100% Quartz and Binders
485487	23	Building Material	orange white	NAD NAD		100% Quartz and Binders 100% Quartz and Binders

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Lab #	Client #	Sample Type	Description	% Asbestos	% Other Fibers	% Binders
485488	24	Fiberboard	tan	NAD	100% Cellulose	
485489	25	Fiberboard	tan	NAD	100% Cellulose	
485490	26	Fiberboard	tan	NAD	100% Cellulose	
485491	27	Drywall System	wht compound drywall mat drywall powder	NAD NAD NAD	100% Cellulose 5% Cellulose	100% Carbonates and Binders 95% Gypsum and Binders
485492	28	Drywall System	wht compound drywall mat drywall powder	NAD NAD NAD	100% Cellulose 5% Cellulose	100% Carbonates and Binders 95% Gypsum and Binders
485493	29	Drywall System	wht compound drywall mat drywall powder	NAD NAD NAD	100% Cellulose 5% Cellulose	100% Carbonates and Binders 95% Gypsum and Binders
485494	30	Building Material	silver mastic black mastic tan material	NAD NAD NAD		100% Bitumen and Binders 100% Bitumen and Binders 100% Quartz and Binders
485495	31	Building Material	silver mastic black mastic tan material	NAD NAD NAD		100% Bitumen and Binders 100% Bitumen and Binders 100% Quartz and Binders
485496	32	Building Material	black shingle black mastic tan material	NAD NAD NAD	30% Glass Fibers	70% Bitumen and Binders 100% Bitumen and Binders 100% Quartz and Binders
485497	33	Insulation	yellow insulate black mastic brown backing	NAD NAD NAD	100% Mineral Wool 100% Cellulose	100% Bitumen and Binders
485498	34	Insulation	yellow insulate black mastic brown backing	NAD NAD NAD	100% Mineral Wool 100% Cellulose	100% Bitumen and Binders
485499	35	Insulation	yellow insulate black mastic brown backing	NAD NAD NAD	100% Mineral Wool 100% Cellulose	100% Bitumen and Binders

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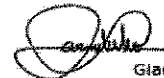
Asbestos, Bulk Sample Analysis Test Method: PLM / DS - EPA Method - 600/R-93/116 - EPA Appx E to Subpart E of Part 763

Lab #	Client #	Sample Type	Description	% Asbestos	% Other Fibers	% Binders
485500	36	Ceiling Tile	white	NAD	75% Mineral Wool 5% Cellulose	20% Binders
485501	37	Ceiling Tile	white	NAD	75% Mineral Wool 5% Cellulose	20% Binders
485502	38	Ceiling Tile	white	NAD	75% Mineral Wool 5% Cellulose	20% Binders
485503	39	Fiberboard	tan	NAD	80% Cellulose	20% Binders
485504	40	Fiberboard	tan	NAD	80% Cellulose	20% Binders
485505	41	Fiberboard	tan	NAD	80% Cellulose	20% Binders
485506	42	Stucco	grey	NAD		100% Quartz and Binders
485507	43	Stucco	grey	NAD		100% Quartz and Binders
485508	44	Stucco	grey	NAD		100% Quartz and Binders
485509	45	Stucco	grey	NAD		100% Quartz and Binders
485510	46	Stucco	grey	NAD		100% Quartz and Binders
485511	47	Building Material	white tan	NAD NAD		100% Quartz and Binders 100% Quartz and Binders
485512	48	Building Material	white tan	NAD NAD		100% Quartz and Binders 100% Quartz and Binders
485513	49	Building Material	white tan	NAD NAD		100% Quartz and Binders 100% Quartz and Binders
485514	50	Insulation	pink insulate black mastic brown backing	NAD NAD NAD	100% Mineral Wool 100% Cellulose	100% Bitumen and Binders
485515	51	Insulation	pink insulate black mastic brown backing	NAD NAD NAD	100% Mineral Wool 100% Cellulose	100% Bitumen and Binders

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Lab #	Client #	Sample Type	Description	% Asbestos	% Other Fibers	% Binders
485516	52	Insulation	pink insulate	NAD	100% Mineral Wool	100% Bitumen and Binders
			black mastic	NAD		
			brown backing	NAD		
485517	53	Sheet Vinyl	yellow mastic	NAD	25% Cellulose 5% Glass Fibers	100% Binders
			tan vinyl	NAD		70% Carbonates and Binders
			yellow mastic	NAD		100% Binders
485518	54	Sheet Vinyl	yellow mastic	NAD	25% Cellulose 5% Glass Fibers	100% Binders
			tan vinyl	NAD		70% Carbonates and Binders
			yellow mastic	NAD		100% Binders
485519	55	Sheet Vinyl	yellow mastic	NAD	25% Cellulose 5% Glass Fibers	100% Binders
			tan vinyl	NAD		70% Carbonates and Binders
			yellow mastic	NAD		100% Binders
485520	56	Building Material	grey	NAD		100% Quartz and Binders
485521	57	Building Material	grey	NAD		100% Quartz and Binders
485522	58	Building Material	grey	NAD		100% Quartz and Binders
485523	59	Roofing Material	tan shingle	NAD	30% Glass Fibers	70% Bitumen and Binders
			black mastic	NAD		100% Bitumen and Binders
485524	60	Roofing Material	tan shingle	NAD	30% Glass Fibers	70% Bitumen and Binders
			black mastic	NAD		100% Bitumen and Binders
485525	61	Roofing Material	tan shingle	NAD	30% Glass Fibers	70% Bitumen and Binders
			black mastic	NAD		100% Bitumen and Binders
			vapor barrier	NAD		40% Cellulose

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Analyzed by:



Giancarlo Arambulo
 Microscopist

APPENDIX B
CERTIFICATIONS

Vern Roberts Environmental Training, Inc.
13987 94th Avenue N Seminole, FL 33776
727-239-1445
Asbestos Survey & Mechanical (Inspector) Refresher
Training

This is to Certify that
Nicholas Barron

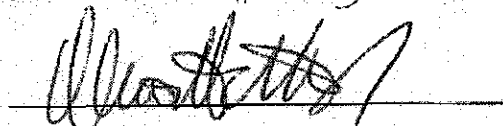
Has completed the requisite training for asbestos accreditation
under TSCA TITLE II

Date of Examination 6/8/2020

Date of Course: 6/8/2020 Expiration Date 6/8/2021

Certificate # 06082004PM

Course # FL49-0006322 Provider # FL49-0003810



Instructor



Ron DeSantis, Governor

Halsey Beshears, Secretary



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

ASBESTOS LICENSING UNIT

THE ASBESTOS BUSINESS ORGANIZATION HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 469, FLORIDA STATUTES

GREENFIELD ENVIRONMENTAL INC

MICHAEL ROTHENBURG
432 3RD STREET NORTH
ST. PETERSBURG FL 33701

LICENSE NUMBER: ZA0000268

EXPIRATION DATE: NOVEMBER 30, 2021

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