

## Demolition Scope of Work for property at 5538 Glass Drive.

### Contractor Services Required by Escambia County Engineering

Contractor services required from a certified or registered contractor, licensed by the State of Florida and properly insured to residential property demolition, site restoration, and stabilization activities. Services will be procured through competitive bids consistent with Escambia County procurement policy. All contractors desiring to bid on the advertised project must meet minimum qualifications, as established by the Escambia County Board of Commissioners, to be deemed responsive.

### Project Summary

Contractors will provide their competitive bid to demolish and remove residential structure located specifically at 5538 Glass Drive recently acquired by Escambia County. Improved elements are to include, but not be limited to primary structures, outbuildings and accessory units, fences, sidewalks and driveways, utilities, underground appurtenances such as pools and basements, tanks, and any other non-vegetative improvements on the property. The site shall be returned to a graded, stabilized condition that is properly leveled and sodded to encourage vegetative growth. Refer to *Appendix B* for property specifications known by Escambia County as of the date of this invitation to bid. All activities performed under the resultant contract shall be completed in accordance with applicable federal, state and local laws, regulations, policies, and procedures.

Contractors must consider the following items in their competitive bid:

1. Disposal of all project debris must be properly disposed of at an appropriately permitted facility. Burying or burning of any materials is not allowed. Include the following costs in the bid:
  - a. Base Bid Costs of removal, disposal, and restoration of specific properties listed in *Table 1*, Landfill fees must be included.
  - b. Provide lump sum costs to demolish and remove property improvements based upon home size of 776 square feet.
  - c. No asbestos containing materials have been identified. See Appendix C for report.
2. The selected contractor must discontinue, turn off, remove, abandon, and/or cap utilities. The selected contractor is responsible to coordinate with utility companies, and only licensed contractors may handle underground utilities. All utilities shall be removed and capped at the right of way. This includes, but is not limited to:
  - a. Physically capping water service and sewer lines.
  - b. Turning off electricity and natural gas and removing service lines.
  - c. Water wells must be closed using the "full grout" system as required by the Northwest Florida Water Management District and stipulated in Florida Administrative Code, Chapter 40A-3. Well closures are to be performed by a Florida Licensed Water Well Contractor. Proof of a final inspection must be provided with the selected contractor's invoice.
  - d. Septic tanks must be removed, and the area filled with compacted clean fill. Septic tanks must be pumped and demolished according to the requirements of the Escambia County Health Department as stipulated in Florida Administrative Code, Chapter 64E-6. Septic tank closures must be performed by a Florida Licensed Plumbing contractor or a Licensed Septic Tank Contractor. Proof of a final inspection must be provided with the selected contractor's invoice.

- e. Underground oil tanks must be removed, along with small quantity of soil around the fill pipe if there is any contamination.
  - f. Above-ground oil tanks and propane tanks must be removed.
- 3. Underground appurtenances, such as pools and basements, must be removed to at least 1 foot below the ground. Openings must be made in the bottom of the structure to allow for drainage, and the excavated area must be backfilled with compacted clean fill to be level with the surrounding ground. If natural drainage is insufficient, pool water pumping must meet local, state, and federal regulations and shall not impact adjacent properties and their owners.
- 4. Once improvements and debris are removed, the land must be prepared to minimize erosion and encourage vegetative cover. If demolition results in excavation, holes, or unusual contours, grading and/or fill may be required to return the site to a natural state, including appropriate vegetation. All disturbed areas must be graded, leveled, and sodded. The top twelve inches of soil should be capable of supporting vegetation. No removal of trees will be allowed unless necessary for improvement demolition or removal as determined by County officials.
- 5. All permits and associated fees are to be obtained for and paid by the selected contractor and must be posted appropriately. Permits include but not limited to building permits for demolition, central sewer closure, septic tank closure permits, well closure permits, and other permits required by County, State, Federal, and community regulations.
- 6. Appendix A contains the boundary survey for 5538 Glass Drive. Appendix A contains the boundary survey for 5538 Glass Dr. Appendix B contains Chris Jones property appraiser information. Appendix C contains the asbestos survey information previously performed at the location.

#### Contract Time and Liquidated Damages

The Work shall be fully complete within **Sixty (60) consecutive calendar days** from the date of the Notice to Proceed Commencement date.

**Liquidated damages of \$1000.00 each day will be assessed for each day that completion of the project is delayed.**

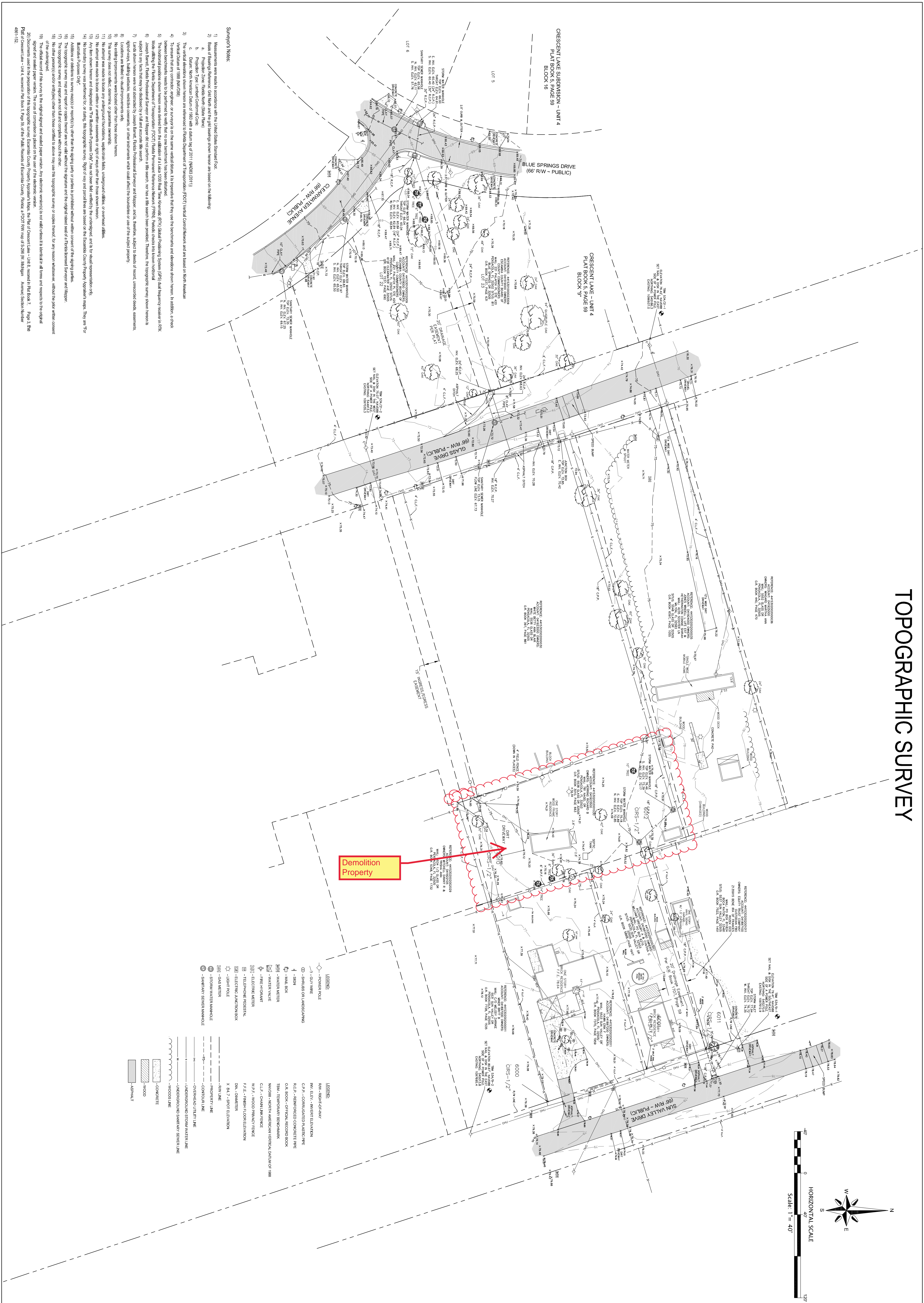
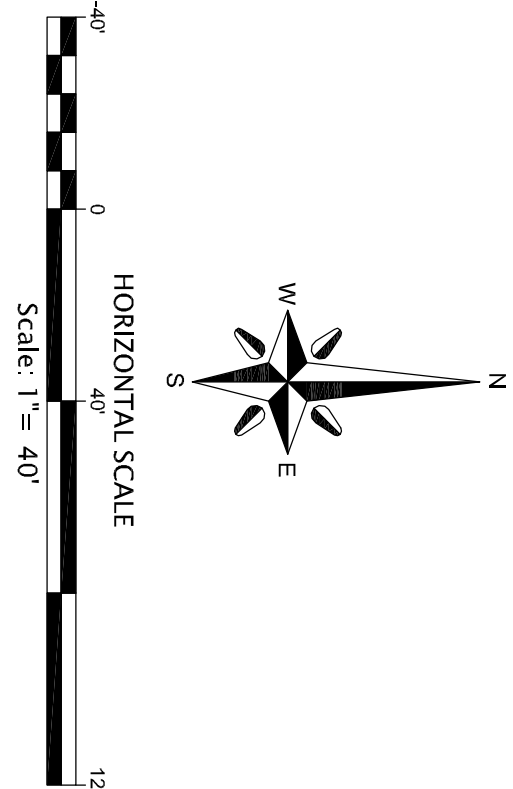
#### Bidder Qualifications

All contractors responding to the Bid Request must demonstrate the following qualifications to be considered eligible: Provide a copy of Certification or Registration as a contractor issued by the State of Florida;

## APPENDIX A



TOPOGRAPHIC SURVEY



Surveyor's Notes:

- Measurements were made in accordance with the United States Standard Foot.
- Basins of Bearings Reference: Grid North and the grid bearings shown herein are based on the following:
  - Reference: Zone 18 North (State Plane)
  - Datum: North American Datum of 1983
  - Projection: Universal Transverse Mercator
- The vertical elevations shown herein are referenced to Florida Department of Transportation (FDOT) Vertical Control Network and are based on North American Vertical Datum of 1988 (NAVD83).
- To ensure that any contractor, engineer, or surveyor on the same vertical datum, it is important that they use the benchmarks as elevations shown herein. In addition, a check of the benchmarks is required.
- The horizontal positions shown herein were derived from a Global Positioning System (GPS) and are based on the Florida Department of Transportation (FDOT) Florida Permanent Reference Network (FPRN). The FPRN is a network of permanent reference points (PRPs) located throughout the state of Florida. The FPRN is used to provide a common reference for all surveying work in the state.
- Joseph Barrett, Florida Professional Surveyor and Mapper did not perform a title search nor has a title search been provided. Therefore, the topographic survey shown herein is subject to any claims that may be discovered by a title search.
- This survey was conducted in accordance with the Florida Professional Surveyor and Mapper Act, Chapter 461, Florida Statutes, and the rules and regulations of the Florida Board of Professional Surveyors and Mappers.
- agreed-upon, mutually beneficial, and/or other arrangements with the owner of the subject property.
- Locations are limited to the subject property only.
- No existing improvements were located other than those shown herein.
- This survey does not depict, determine, or guarantee ownership.
- This survey does not depict, determine, or guarantee easements or rights of way.
- No survey was made to locate utility or easement lines or rights of way other than those shown herein.
- Any items shown herein and designated as "For Informational Purposes Only" have not been field verified by the undersigned, and are for informational purposes only.
- No boundary survey was performed for, or carried, the topographic survey. Right of way and parcel lines are based on the Escambia County Property Appraiser's maps. They are "For Informational Purposes Only".
- Any items shown herein and designated as "For Informational Purposes Only" have not been field verified by the undersigned, and are for informational purposes only.
- No boundary survey was performed for, or carried, the topographic survey. Right of way and parcel lines are based on the Escambia County Property Appraiser's maps. They are "For Informational Purposes Only".
- The topographic survey was made and report or copies thereof are not valid without the signature and the original dates and of a Florida Licensed Surveyor and Mapper.
- No other persons (and/or entities) other than those certified to above may use this topographic survey or copies thereof for any reason whatsoever, without the prior written consent of the undersigned.
- This survey is the original signed and sealed survey map. Any photocopies or reproductions of this survey map are not valid without the signature and the original dates and of a Florida Licensed Surveyor and Mapper.
- 20 documents used in the preparation of this topographic survey: Escambia County Property Appraiser's Maps, the Plat of Crescent Lake - Unit 4, located in Plat Book 7, Page 3, the Plat of Crescent Lake - Unit 4, located in Plat Book 5, Page 56, of the Public Records of Escambia County, Florida a FDOT RW map of S-298 W. Michigan Avenue Section Number 4881-102.

DRAWING NUMBER L-6013			MEASUREMENTS MADE IN ACCORDANCE WITH UNITED STATES STANDARD FOOT			DRAWING FILE LOCATION: L:\Drafting\SUN VALLEY DRIVE\20180120.dwg\SUN VALLEY DRIVE POND 20180102		
SHEET 1			TYPE OF SURVEY: TOPOGRAPHIC			PROJECT NO. 20180028		
OF 1 SHEETS			DISTRICT ONE					
DRAWN BY: M. KIRKLAND			DESIGNED BY:			CHECKED BY: J. BARRETT		
FIELD DATE: March 20, 2018			SECTION-TOWNSHIP-RANGE 44-1S-30W			APPROVED BY:		
DRAWING DATE: March 28, 2018			FIELD BOOK 538			PAGE 5-34		
						REGISTERED FL ENGINEER NO.		
						PROFESSIONAL SURVEYOR AND MAPPER NO. 6260		
						DATE:		
						I hereby certify that the survey shown hereon was made under my responsible charge and meets the Standards of Practice as set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 5J-17.050, 5J-17.051, and 5J-17.052, pursuant to Section 472.027 Florida Statutes.		
						Revisions:		
						Joseph Barrett, Professional Surveyor and Mapper No. 6260		
						State of Florida		
						DATE:		



## APPENDIX B

Source: Escambia County Property Appraiser

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[● Account](#)
[○ Reference](#)
[→](#)

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General Information		Assessments				
Reference:	441S302002001030	Year	Land	Imprv	Total	<a href="#">Cap Val</a>
Account:	041923500	2016	\$12,236	\$15,549	\$27,785	\$27,785
Owners:	HERRING RICHARD B	2015	\$12,236	\$16,056	\$28,292	\$28,292
Mail:	781 NAGEL DR PENSACOLA, FL 32503	2014	\$12,236	\$15,063	\$27,299	\$27,299
Situs:	5538 GLASS DR 32505	<a href="#">Disclaimer</a>				
Use Code:	SINGLE FAMILY RESID	<a href="#">Amendment 1/Portability Calculations</a>				
Taxing Authority:	COUNTY MSTU					
Tax Inquiry:	<a href="#">Open Tax Inquiry Window</a>					
Tax Inquiry link courtesy of Scott Lunsford Escambia County Tax Collector						

Sales Data							2016 Certified Roll Exemptions	
Sale Date	Book	Page	Value	Type	Official Records (New Window)		None	
05/1991	3010	663	\$11,600	WD	<a href="#">View Instr</a>		<b>Legal Description</b> BEG AT INTER OF W LI OF UNITED GAS LINE PIPE CO 30 FT R/W AND N LI OF MICHIGAN AVE W ALG N LI OF MICHIGAN AVE...	
03/1991	2984	927	\$100	QC	<a href="#">View Instr</a>			
11/1984	1983	192	\$1,500	WD	<a href="#">View Instr</a>			
01/1977	1720	852	\$100	WD	<a href="#">View Instr</a>			
Official Records Inquiry courtesy of Pam Childers Escambia County Clerk of the Circuit Court and Comptroller							<b>Extra Features</b>	
							None	

**Parcel Information**

**Section**

**Map Id:**  
[44-1S-30-2](#)

**Approx. Acreage:**  
0.4600

**Zoned:**  
HDMU

**Evacuation & Flood Information**  
[Open Report](#)

**Launch Interactive Map**

[View Florida Department of Environmental Protection\(DEP\) Data](#)

Buildings	
Address: 5538 GLASS DR, Year Built: 1965, Effective Year: 1965	
<b>Structural Elements</b> <b>DECOR/MILLWORK</b> -BELOW AVERAGE <b>DWELLING UNITS</b> -1 <b>EXTERIOR WALL</b> -SIDING-SHT.AVG. <b>FLOOR COVER</b> -PINE/SOFTWOOD <b>FOUNDATION</b> -WOOD/NO SUB FLR <b>HEAT/AIR</b> -UNIT HEATERS <b>INTERIOR WALL</b> -WOOD/WALLBOARD <b>NO. PLUMBING FIXTURES</b> -3 <b>NO. STORIES</b> -1 <b>ROOF COVER</b> -COMPOSITION SHG <b>ROOF FRAMING</b> -GABLE <b>STORY HEIGHT</b> -0 <b>STRUCTURAL FRAME</b> -WOOD FRAME	
<b>Areas</b> - 776 Total SF <b>BASE AREA</b> - 666 <b>OPEN PORCH UNF</b> - 110	
<b>Images</b> None	

The primary use of the assessment data is for the preparation of the current year tax roll. No responsibility or liability is assumed for inaccuracies or errors.

## APPENDIX C



Mr. John Rosenau  
Board of County Commissioners  
Engineering Department  
3363 West Park Place  
Pensacola, FL 32505

August 21, 2019  
Project No.: M19-313

Re: Pre-Demolition Asbestos Survey  
Former Residential Structure  
5538 Glass Drive  
Pensacola, Florida 32505

Dear Mr. Rosenau:

**Southern Earth Sciences, Inc. (SESI)** is pleased to inform you of the results of the above referenced project.

## 1.0 INTRODUCTION

The pre-demolition asbestos survey included the former residential structure located at 5538 Glass Drive in Pensacola, Florida. Mr. Adam Beasley of SESI completed the survey on August 14, 2019. A total of eighteen (18) bulk samples of suspect asbestos-containing building materials were collected for analysis. The bulk samples were sent to Eurofins CEI, a National Voluntary Laboratory Accreditation Program (NVLAP) accredited analytical laboratory in Cary, NC. Bulk samples were analyzed by Polarized Light Microscopy (PLM), E.P.A. Method 600/R-93/116. Test results are attached.

## 2.0 DEFINITIONS

**Asbestos Containing Materials (ACM):** Building materials used for construction of a structure that are known or are suspect for containing asbestos.

**Asbestos:** Asbestos is the asbestiform varieties of chrysotile, crocidolite, amosite, anthophyllite, tremolite, and actinolite.

**Asbestos Inspection:** An evaluation performed by a trained and E.P.A. certified inspector to determine the presence or absence of Asbestos-containing materials. Asbestos inspectors engage in the survey and assessment of ACBM.

**Category I non-friable ACM:** asbestos-containing packings, gaskets, resilient floor covering and asphalt roofing products.

**Category II non-friable ACM:** any material, excluding Category I ACM, that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Demolition: the removal of load-bearing walls or structural components.

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

Renovation: the removal of any other building components other than load-bearing walls or structural components.

### **3.0 PHYSICAL SURVEY**

According to data obtained from the Escambia County Property Appraiser website, the structure is approximately 776 square feet in size and was constructed in approximately 1965. The subject structure is a single-story, wood frame, above-grade building with wood exterior walls and a sloped shingle roof. Interior finishes in the structure consist of vinyl sheet flooring, floor tile, gypsum board walls and ceilings, and popcorn ceiling texture.

### **4.0 SUMMARY OF FINDINGS**

The E.P.A. definition for an asbestos-containing material is a building material that contains more than 1 percent asbestos when analyzed by PLM and is placed into two categories; friable and non-friable. Friable ACM is a material that can be easily pulverized with hand pressure as opposed to non-friable ACM.

#### **4.1 FRIABLE ACM**

No Friable ACMs were found during this survey.

#### **4.2 NON-FRIABLE ACM**

No Non-Friable ACMs were found during this survey.

If additional suspect materials are discovered that were not assessed during this survey, work should be stopped, and the materials tested by a Florida licensed asbestos consultant.

### **5.0 CONCLUSIONS AND RECOMMENDATIONS**

NESHAPS requires a 10-working day notification to the Florida Department of Environmental Protection (FDEP) Division of Air Management prior to the start date of a demolition project even if no asbestos was discovered during the asbestos survey.

## 6.0 GENERAL COMMENTS

This asbestos survey has been performed to identify asbestos containing materials in the existing building and is not intended as abatement specifications and drawings.

Comments and observations given above reflect an opinion as to the various materials and conditions visually observed during the inspection and should not be construed as a representation or warranty expressed or implied, as to scope, thoroughness or accuracy of the inspection.

A conscious effort is made to identify all suspect materials. There is a possibility that conditions or materials may exist which could not be identified during our survey due to physical inaccessibility and the use of nondestructive sampling methods. Materials that typically do not contain asbestos have not been sampled. These materials include but are not limited to rubber, fiberglass, etc.

Conclusions and recommendations given in this report are based upon our interpretation of current regulatory standards. Changes in regulatory standards may require changes in our conclusions and recommendations.

We appreciate the opportunity to be of service to you on this project. Should you have any questions or require additional information, please contact our office.

Sincerely,  
**SOUTHERN EARTH SCIENCES, INC.**



Adam P. Beasley  
AHERA Accredited Asbestos Inspector  
Certificate No.: 200031-7862



Mark E. Wilson, P.E.  
Asbestos Consultant No. AX 85  
State of Florida

Attachments: Table 1: Asbestos Bulk Sample Analytical Results Summary  
Laboratory Analytical Report/Bulk Sample Log/Sample Chain of Custody  
Photographs  
Inspector's Training Certificate

**TABLE 1: Asbestos Bulk Sample Analytical Results Summary**

Project Name: **5538 Glass Drive**

Project Number: **M19-313**

Sample Number	Material Description	Location	Estimated Quantity	Condition	Friable	Asbestos Content
01	Shingle Roof System	Roof of Structure	N/A	N/A	N/A	NAD
02						NAD
03	Tan Window Glazing	Exterior of Windows	N/A	N/A	N/A	NAD
04						NAD
05	White Vinyl Sheet Flooring Beige Mastic	Various Locations Throughout Structure	N/A	N/A	N/A	NAD
06						NAD
07	Red Flooring Tan Mastic	Floor of Bathroom	N/A	N/A	N/A	NAD
08						NAD
09	Red Flooring	Floor of Kitchen	N/A	N/A	N/A	NAD
10						NAD
11	Red Flooring	Floor of Kitchen	N/A	N/A	N/A	NAD
12						NAD
13	Popcorn Ceiling Texture	Ceiling Throughout Structure	N/A	N/A	N/A	NAD
14						NAD
15						NAD
16	Drywall System	Walls and Ceiling Throughout Structure	N/A	N/A	N/A	NAD
17						NAD
18						NAD

Notes:

1. NAD = No Asbestos Detected
2. **Bold** = Asbestos was identified in the bulk sample.
3. CH = Chrysotile Asbestos

August 19, 2019

Southern Earth Sciences, Inc.  
707 E. Cervantes St., Suite B, #198  
Pensacola, FL 32501

**CLIENT PROJECT:** 5538 Glass Drive, M19-313  
**CEI LAB CODE:** B194485

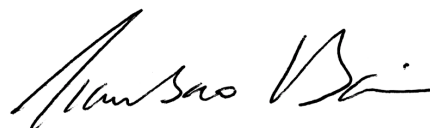
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on August 15, 2019. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH  
Laboratory Director

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# **ASBESTOS ANALYTICAL REPORT**

## **By: Polarized Light Microscopy**

Prepared for

**Southern Earth Sciences, Inc.**

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CLIENT PROJECT: 5538 Glass Drive, M19-313

LAB CODE: B194485

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 08/19/19

TOTAL SAMPLES ANALYZED: 18

# SAMPLES >1% ASBESTOS:



# Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

**PROJECT:** 5538 Glass Drive, M19-313

**LAB CODE:** B194485

**METHOD:** EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
01	Layer 1	B67851	Gray	Roof Shingle	None Detected
	Layer 2	B67851	Brown,Green	Roof Shingle	None Detected
02	Layer 1	B67852	Gray	Roof Shingle	None Detected
	Layer 2	B67852	Brown,Green	Roof Shingle	None Detected
03		B67853	Tan	Window Glazing	None Detected
04		B67854	Tan	Window Glazing	None Detected
05		B67855	White	Vinyl Sheet Flooring	None Detected
06		B67856A	White	Vinyl Sheet Flooring	None Detected
		B67856B	Beige	Mastic	None Detected
07		B67857A	Red	Flooring	None Detected
		B67857B	Tan	Mastic	None Detected
08		B67858A	Red	Flooring	None Detected
	Layer 1	B67858B	Tan	Mastic	None Detected
	Layer 2	B67858B	Gray	Leveling Compound	None Detected
09		B67859	Red	Flooring	None Detected
10		B67860	Red	Flooring	None Detected
11		B67861	Red	Flooring	None Detected
12		B67862	Red	Flooring	None Detected
13		B67863	Tan	Popcorn Ceiling	None Detected
14		B67864	Tan	Popcorn Ceiling	None Detected
15		B67865	Tan	Popcorn Ceiling	None Detected
16	Layer 1	B67866	White	Joint Compound	None Detected
	Layer 2	B67866	Gray	Drywall	None Detected
17	Layer 1	B67867	White	Joint Compound	None Detected
	Layer 2	B67867	Gray	Drywall	None Detected
18	Layer 1	B67868	White	Joint Compound	None Detected
	Layer 2	B67868	Gray	Drywall	None Detected

# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** Southern Earth Sciences, Inc.  
707 E. Cervantes St., Suite B, #198  
Pensacola, FL 32501

**Lab Code:** B194485  
**Date Received:** 08-15-19  
**Date Analyzed:** 08-19-19  
**Date Reported:** 08-19-19

**Project:** 5538 Glass Drive, M19-313

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
<b>01</b> Layer 1 B67851	Roof Shingle	Heterogeneous Gray Fibrous Bound	30%	Fiberglass	45% 25%	Tar Gravel	None Detected
Layer 2 B67851	Roof Shingle	Heterogeneous Brown, Green Fibrous Bound	30%	Fiberglass	45% 25%	Tar Gravel	None Detected
<b>02</b> Layer 1 B67852	Roof Shingle	Heterogeneous Gray Fibrous Bound	30%	Fiberglass	45% 25%	Tar Gravel	None Detected
Layer 2 B67852	Roof Shingle	Heterogeneous Brown, Green Fibrous Bound	30%	Fiberglass	45% 25%	Tar Gravel	None Detected
<b>03</b> B67853	Window Glazing	Heterogeneous Tan Non-fibrous Bound			75% 25%	Binder Calc Carb	None Detected
<b>04</b> B67854	Window Glazing	Heterogeneous Tan Non-fibrous Bound			75% 25%	Binder Calc Carb	None Detected
<b>05</b> B67855	Vinyl Sheet Flooring	Heterogeneous White Non-fibrous Bound			75% 25%	Vinyl Binder	None Detected

# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** Southern Earth Sciences, Inc.  
707 E. Cervantes St., Suite B, #198  
Pensacola, FL 32501

**Lab Code:** B194485  
**Date Received:** 08-15-19  
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**Date Reported:** 08-19-19

**Project:** 5538 Glass Drive, M19-313

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
<b>06</b> B67856A	Vinyl Sheet Flooring	Heterogeneous White Non-fibrous Bound			75% 25%	Vinyl Binder	None Detected
B67856B	Mastic	Homogeneous Beige Non-fibrous Bound			100%	Mastic	None Detected
<b>07</b> B67857A	Flooring	Heterogeneous Red Fibrous Bound	20%	Cellulose	75% 5%	Vinyl Binder	None Detected
B67857B	Mastic	Homogeneous Tan Non-fibrous Bound			100%	Mastic	None Detected
<b>08</b> B67858A	Flooring	Heterogeneous Red Fibrous Bound	20%	Cellulose	75% 5%	Vinyl Binder	None Detected
Layer 1 B67858B	Mastic	Homogeneous Tan Non-fibrous Bound			100%	Mastic	None Detected
Layer 2 B67858B	Leveling Compound	Heterogeneous Gray Non-fibrous Bound			65% 35%	Silicates Binder	None Detected

# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** Southern Earth Sciences, Inc.  
707 E. Cervantes St., Suite B, #198  
Pensacola, FL 32501

**Lab Code:** B194485  
**Date Received:** 08-15-19  
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**Date Reported:** 08-19-19

**Project:** 5538 Glass Drive, M19-313

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
09 B67859	Flooring	Heterogeneous Red Fibrous Bound	20%	Cellulose	65% 15%	Vinyl Tar	None Detected
10 B67860	Flooring	Heterogeneous Red Fibrous Bound	20%	Cellulose	65% 15%	Vinyl Tar	None Detected
11 B67861	Flooring	Heterogeneous Red Fibrous Bound			60% 30% 10%	Binder Silicates Paint	None Detected
12 B67862	Flooring	Heterogeneous Red Fibrous Bound			60% 30% 10%	Binder Silicates Paint	None Detected
13 B67863	Popcorn Ceiling	Heterogeneous Tan Non-fibrous Bound			70% 25% 5%	Calc Carb Vermiculite Paint	None Detected
14 B67864	Popcorn Ceiling	Heterogeneous Tan Non-fibrous Bound			70% 25% 5%	Calc Carb Vermiculite Paint	None Detected
15 B67865	Popcorn Ceiling	Heterogeneous Tan Non-fibrous Bound			70% 25% 5%	Calc Carb Vermiculite Paint	None Detected

# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** Southern Earth Sciences, Inc.  
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**Project:** 5538 Glass Drive, M19-313

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
<b>16</b> Layer 1 B67866	Joint Compound	Heterogeneous White Non-fibrous Bound			70% 25% 5%	Calc Carb Binder Paint	None Detected
Layer 2 B67866	Drywall	Heterogeneous Gray Fibrous Bound	25%	Cellulose	75%	Gypsum	None Detected
<b>17</b> Layer 1 B67867	Joint Compound	Heterogeneous White Non-fibrous Bound			70% 25% 5%	Calc Carb Binder Paint	None Detected
Layer 2 B67867	Drywall	Heterogeneous Gray Fibrous Bound	25%	Cellulose	75%	Gypsum	None Detected
<b>18</b> Layer 1 B67868	Joint Compound	Heterogeneous White Non-fibrous Bound			70% 25% 5%	Calc Carb Binder Paint	None Detected
Layer 2 B67868	Drywall	Heterogeneous Gray Fibrous Bound	25%	Cellulose	75%	Gypsum	None Detected

---

---

**LEGEND:**      Non-Anth      = Non-Asbestiform Anthophyllite  
                      Non-Trem      = Non-Asbestiform Tremolite  
                      Calc Carb      = Calcium Carbonate

---

**METHOD:** EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

---

**REPORTING LIMIT:** <1% by visual estimation

---

**REPORTING LIMIT FOR POINT COUNTS:** 0.25% by 400 Points or 0.1% by 1,000 Points

---

**REGULATORY LIMIT:** >1% by weight

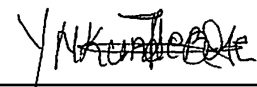
---

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

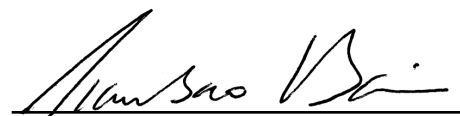
This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

**ANALYST:**

  
 Yvette Nkunde-Bose

**APPROVED BY:**

  
 Tianbao Bai, Ph.D., CIH  
 Laboratory Director





CEI

## CHAIN OF CUSTODY

16

730 SE Maynard Road, Cary, NC 27511

Tel: 866-481-1412; Fax: 919-481-1442

## LAB USE ONLY:

CEI Lab Code:

BFM485

CEI Lab I.D. Range:

B67851-B67868

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Adam Beasley
Company: Southern Earth Sciences	Email / Tel: abeasley@soearth.com / 850-501-7752
Address: 707 E. Cervantes St., Suite B, # 198	Project Name: 5538 Glass Drive
Pensacola, FL 32501	Project ID#: M19-313
Email: abeasley@soearth.com	PO #:
Tel: 850-501-7752 Fax:	STATE SAMPLES COLLECTED IN: FL

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (400)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (1000)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAV w POINT COUNT	EPA 600		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM BULK	CARB 435		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	EPA AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	NIOSH 7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR (PCME)	ISO 10312	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ASTM 6281-15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST WIPE	ASTM D6480-05 (2010)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST MICROVAC	ASTM D5755-09 (2014)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM SOIL	ASTM D7521-16			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM QUALITATIVE	IN-HOUSE METHOD		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## REMARKS / SPECIAL INSTRUCTIONS:

Analyze and Report Joint Compound and Drywall Separately.

☒ Accept Samples  
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Adam Beasley	8/14/19 / 1600	JB	8/15/19 9:20

Samples will be disposed of 30 days after analysis

3194485

8/14/2019

Date \_\_\_\_\_

## 5538 Glass Drive

Building Name / Area Surveyed

**200031-7862**

Inspector License #

NOTES:



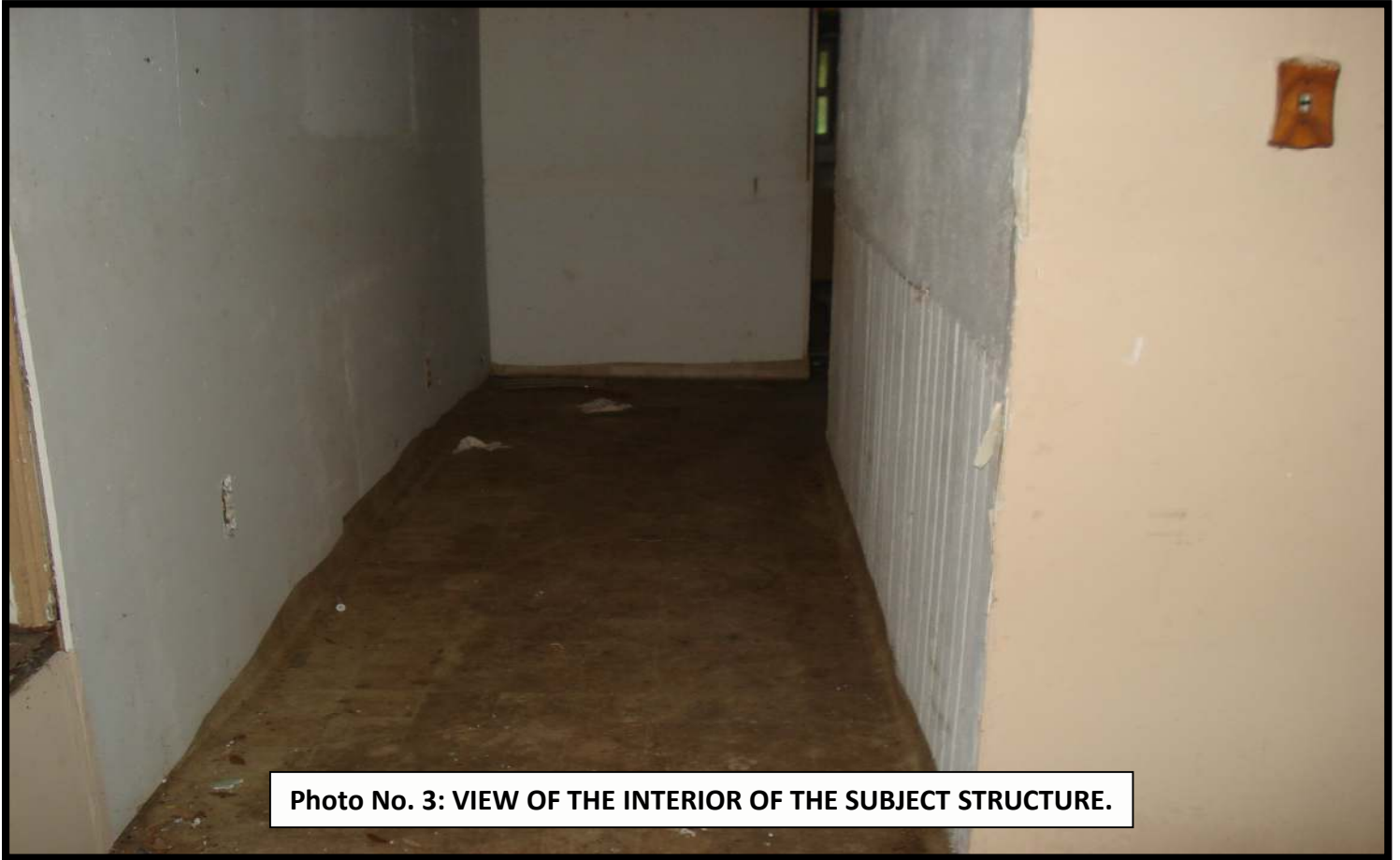


**Photo No. 1: VIEW OF THE SUBJECT STRUCTURE.**



**Photo No. 2: VIEW OF THE SUBJECT STRUCTURE.**





**Photo No. 3: VIEW OF THE INTERIOR OF THE SUBJECT STRUCTURE.**



**Photo No. 4: VIEW OF THE INTERIOR OF THE SUBJECT STRUCTURE.**

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Center for Training, Research and Education for Environmental Occupations

certifies

**Adam P. Beasley**

Southern Earth Sciences, 707 E. Cervantes St., Ste. B, # 198 , Pensacola, FL 32501

Having passed a 25-question exam with a score of 70% or higher has successfully met training requirements for

***Asbestos Refresher: Inspector***

FDBPR Asbestos Licensing Unit: Provider #0000995; Course #FL49-0004731 (1/2 Day; 3.40 Contact Hours)  
(Reaccreditation for Inspector under TSCA Title II/AHERA)

*Conducted*

**08/06/2019**

**Certificate #: 200031-7862**

**Exam Date: 08/06/2019**

**EPA accreditation expires: 08/06/2020**

**Principal Instructor: Brian Duchene, PE**

**CEUs: .4**

**FBPR LAC: #0000995;**

**FBPE PDHs: #0004021; Course #0009083/Educational Institutions: 4 PDHs**

*Carol Hinton*

Carol Hinton, Associate Director