COMPREHENSIVE ASBESTOS/LEAD-BASED PAINT SURVEY

SINGLE-FAMILY RESIDENCE 1108 FOLLY ROAD CHARLESTON, SOUTH CAROLINA



Prepared For:

JAMES ISLAND PUBLIC SERVICE DISTRICT Attn: Mr. Robert Wise 1739 Signal Point Road, PO Box 12140 Charleston, SC 29422-2140 (843) 998–6178

Performed By:



Consultants in Industrial Hygiene and Safety 500 Oakbrook Lane, Suite E Summerville, SC 29485 (843) 873-3648

COMPREHENSIVE ASBESTOS/LEAD-BASED PAINT SURVEY

Single-Family Residence 1108 Folly Road Charleston, South Carolina 29412

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EXECUTIVE SUMMARY

The comprehensive asbestos survey performed by Trident Environmental Services, Inc. on February 11, 2019 of the Single-Family Residence located at 1108 Folly Road in Charleston, South Carolina **did** reveal the presence of asbestos containing building materials. The following summary exhibits the asbestos containing building materials (ACBM) that were identified in the inspection.

Asbestos

Description	Туре
Drywall/Joint Compound	RACM – Friable
Exterior Caulk	RACM – Friable
RACM – Regulated Asbestos Containing Material	PACM – Presumed Asbestos Containing Material

The identified ACBM includes the item(s) listed above. All removal work of the identified ACBM should be performed by a properly trained and licensed abatement contractor prior to the planned renovation/demolition activities.



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BACKGROUND

Trident Environmental Services, Inc. was contracted by James Island Public Service District to perform an asbestos survey of the Single-Family Residence located at 1108 Folly Road in Charleston, South Carolina. The survey was performed in order to satisfy the NESHAP requirements for renovation and/or demolition. The Single-Family Residence constructed in 1963, is built on foundation with crawlspace and consists of approximately 2,069 square feet. The structure is currently vacant and in significantly damaged condition due to a recent fire. Access was limited due to safety concerns over the collapsed roof and floors in some areas. Suspect ACBM not addressed in the inspection report are to be presumed as asbestos containing

Interior walls are wood and drywall with joint compound applied at seams and patches. Ceilings are ceiling tiles and drywall with joint compound Floor finishes are ceramic tile, vinyl sheet flooring and hardwood. Exterior construction is brick veneer and concrete bloc with wood trim, windows and doors. Roofing materials include asphalt shingles and felt paper. Note: This building is significant damaged by a recent fire causing the roof, walls and ceilings to collapse.

Non-suspect material includes wood, glass, concrete or concrete block, brick, masonry or grout, natural stone or ceramic, metal components, ductwork or piping, PVC pipes, silicone caulk, fiberglass, foam or rubber insulation.

Asbestos

The inspection was conducted to identify ACBM which may be disturbed during the renovation/demolition activities. The identification of ACBM will aid in the prevention of occupational exposures and/or environmental releases of airborne asbestos fibers. Identification of ACBM also complies with Title 40 Code of the Federal Regulations, Part 61, and SCDHEC Regulation 61-86.1, along with Title 29 Code of Federal Regulations, Part 1926 enforced by the OSHA. The Asbestos Survey describes the investigative procedures utilized, results of the suspect ACBM sampled/analyzed, and recommendations regarding the structures as related to asbestos.

Visual Inspection

The survey began with a visual observation of building and/or structure components to identify homogeneous areas of suspect ACBM. A homogeneous area consists of building materials, which appear similar throughout in terms of color, texture and date of application. Building materials not identified as concrete, glass, wood, masonry, metal, rubber, foam or plastic were not considered ACBM.



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Limitations

There is a possibility that suspect ACBM may be located in areas that are inaccessible by limited destructive testing and may be present in the following locations: Suspect ACBM above hard ceilings such as drywall or plaster where this no access point, chases, wall cavities, coatings, waterproofing or mastic behind exterior brick veneer, waterproofing, felt paper or other type of moisture barrier, vinyl floor coverings under non-load bearing walls, cabinets, ceramic tiles, wood floors or floors with multiple layers of sub-flooring.

In the event that suspect ACBM is discovered during renovation or demolition activities, work should immediately be stopped. Notify building owner and Consultant to collect samples for laboratory testing. ACMB may be Presumed Asbestos Containing (PACM) or submitted for PLM analysis by a NVLAP accredited laboratory. Avoid further disturbance of ACBM until laboratory results are available. When laboratory analysis confirms the ACBM is non asbestos work activities may resume. Positive results would require contracting with a SCDHEC licensed abatement contractor to remove remaining ACBM



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ASBESTOS SURVEY

Asbestos Investigative Procedures

Trident Environmental Services, Inc. conducted an inspection for suspect ACBM on February 11, 2019 of the Single-Family Residence located at 1108 Folly Road in Charleston, South Carolina. It is our understanding that the subject structure will undergo renovation or demolition activities in the near future. The asbestos survey was performed by observing and sampling suspect building materials. Significant destructive testing was not utilized during the inspection. There is a possibility that suspect materials exist in inaccessible areas such as wall cavities and pipe chases. If any additional suspect ACBM are discovered during the course of demolition activities, bulk samples should be extracted to identify the presence, or absence, of asbestos prior to continuation of work activities.

A sampling strategy was developed to provide representative samples for analysis. Samples were then extracted from a variety of suspect ACBM. Bulk samples collected were recorded on a Chain-of-Custody record and submitted to Electron Microscopy Services Laboratory Analytical, Inc. (EMSL) a Polarized Light Microscopy (PLM) laboratory. The laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), which is administered by the National Institute of Standards and Technology (NIST). EMSL is accredited by NVLAP for the analysis of bulk asbestos by PLM and Transmission Electron Microscopy (TEM) (NVLAP Lab Code: 200841-0).

The suspect materials were analyzed by trained microscopists utilizing PLM techniques coupled with dispersion staining in accordance with EPA Test Method Title 40 Code of Federal Regulations, Chapter I (1-1-87 edition), Part 763, Subpart F- Appendix A. This method identifies asbestos mineral fibers based on six optical characteristics: morphology, birefringence, refractive index, extinction angle, sign of elongation and dispersion staining colors. The laboratory analysis reports the specific type of asbestos identified (there are six asbestos minerals) and the percentage of asbestos present. The EPA and OSHA defines materials as asbestos containing if an asbestos content of greater than one percent (>1%) is detected in a representative sample.

Non-Friable Organically Bound (NOB) samples were submitted to EMSL for analyses by TEM. SCDHEC requires NOB materials with negative or trace results by PLM to be analyzed by at least one TEM. SCDHEC in accordance with ASTM E 2356-04 defines NOB materials as "materials that are not friable and that consist of fibers and other particulate matter embedded in a solid matrix of asphalt, vinyl or other organic substances." Examples of NOB materials include but are not limited to flooring materials such as vinyl floor tiles, vinyl sheet flooring, adhesives, mastics, asphalt shingles, roofing materials, glazing, caulks, and cove base.

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The EPA classifies ACBM into two categories, friable and non-friable. A friable material creates a greater health hazard due to the fact that it may be "crumbled, pulverized or reduced to powder by the forces expected to act upon it in the course of demolition or renovation operations."

Friable Asbestos material means any material containing more than one percent asbestos as determined using the method specified in appendix A, subpart F, 40 CFR part 763 section 1, Polarized Light Microscopy, that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. If the asbestos content is less than 10 percent as determined by a method other than point counting by polarized light microscopy (PLM), verify the asbestos content by point counting using PLM.

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

Category II Non Friable ACM means any material, excluding Category I non friable ACM, containing more than one percent asbestos as determined using the methods specified in appendix A, subpart F, 40 CFR part 763, section 1, Polarized Light Microscopy that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. (cement siding, transite board shingles, etc.)

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

The following section summarizes the sample numbers, locations, type material, asbestos type, percent of asbestos detected, present condition of the asbestos containing material, potential for disturbance, and hazard assessment ratings. The asbestos sample laboratory analyses and chain of custody records are included at the end of this report.



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Asbestos Abbreviations and Hazard Assessment Key

The EPA and SCDHEC require that confirmed ACBM is given a hazard assessment based on its present condition and potential for future disturbance. This hazard assessment is used as a tool for prioritization in future remedial actions regarding the ACBM. The following key demonstrates the criteria that make up the hazard assessment.

Present Condition

F = Friable	G = Good (very localized limited damage)
NF = Non-friable	D = Damaged (<10% distributed and/or <25% localized)
	S = Significantly Damaged ($\geq 10\%$ distributed and/or 25% localized)

Potential for Future Disturbance

LPD = Low Potential for Disturbance (Contact, Vibration, and/or Air Erosion – low concern) PD = Potential for Damage (Contact, Vibration, and/or Air Erosion – moderate concern) PSD = Potential for Significant Damage (Contact, Vibration and/or Air Erosion – high concern)



Hazard Assessment



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HOMOGENOUS AREA ESTIMATED FOOTAGE TABLE Single-Family Residence – 1108 Folly Road – Charleston, SC

HOMOGENOUS AREA ID #	DESCRIPTION	ESTIMATED AMOUNT
01	1' x 1' Ceiling Tile	168 SF
02	Roof Shingle	2,483 SF
03	Roof Felt Paper	2,483 SF
04	Drywall	8,108 SF
05	Joint Compound	8,108 SF
06	Exterior Caulk	47 SF



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<u>ASBESTOS SUMMARY</u> Single-Family Residence – 1108 Folly Road – Charleston, SC

TYPE	AMOUNT
RACM – Friable	8,108 SF
RACM – Friable	47 SF
	TYPE RACM – Friable RACM – Friable

RACM – Regulated Asbestos Containing Material

PACM – Presumed Asbestos Containing Material

SCDHEC requires any non-friable material that is identified in an asbestos inspection report in a condition other than good and non-friable must be handled as a Regulated Asbestos Containing Material (RACM) and identified as friable on the asbestos abatement application. This requirement is reflected in the Asbestos Summary Table listed above.

Asbestos fibers were identified in the Drywall/Joint Compound. Approximately 8,108 square feet is present and in significantly damaged condition. This material is considered RACM – Friable Asbestos and is located on walls and ceilings.

Asbestos fibers were identified in the Exterior Caulk. Approximately 47 square feet is present and in significantly damaged condition. This material is considered RACM – Friable Asbestos and is located around exterior windows and doors.

The estimated quantities provided should be verified by contractor and/or building owner. Any discrepancies are to be addressed prior to removal of ABCM. Please note that removal costs vary depending on the contractor, the quantity/condition, and the accessibility/location of the ABCM.



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DESCRIPTION OF EACH SAMPLE AREA					ATORY	ASSESSI OF MATH	MENT ERIALS	
Homogeneous			Friable	Asbestos Present		Condition	Hazard	
Area & Sample ID	Description	Location/Room #	(Y/N)	Percent	Asbestos	Assessment Category	Assessment Category	
01-01	1' x 1' Ceiling Tile	Back Porch	Y	0.0%	ND	9	N/A	
01-02	1' x 1' Ceiling Tile	Back Porch	Y	0.0%	ND	9	N/A	
01-03	1' x 1' Ceiling Tile	Back Porch	Y	0.0%	ND	9	N/A	
02-04	Roof Shingle	Roof	Y	0.0%	ND	9	N/A	
02-05	Roof Shingle	Roof	Y	0.0%	ND	9	N/A	
02-06 T	Roof Shingle	Roof	Y	0.0%	ND	9	N/A	
03-07	Roof Felt Paper	Roof	Y	0.0%	ND	9	N/A	
03-08	Roof Felt Paper	Roof	Y	0.0%	ND	9	N/A	
03-09 T	Roof Felt Paper	Roof	Y	0.0%	ND	9	N/A	
04-10	Drywall	Living Room	Y	0.0%	ND	9	N/A	
04-11	Drywall	Living Room	Y	0.0%	ND	9	N/A	
04-12	Drywall	Living Room	Y	0.0%	ND	9	N/A	
05-13	Joint Compound	Living Room	Y	2.0%	CHRY	6	7	
05-14	Joint Compound	Living Room	Y	NT	PACM	6	7	
05-15	Joint Compound	Living Room	Y	NT	PACM	6	7	
06-16	Joint Compound	Living Room	Y	NT	PACM	6	7	
06-17	Joint Compound	Living Room	Y	NT	PACM	6	7	
06-18	Joint Compound	Living Room	Y	NT	PACM	6	7	
06-19	Joint Compound	Living Room	Y	NT	PACM	6	7	
07-20	Exterior Caulk	Front Door	Y	3.0%	CHRY	9	7	
07-21	Exterior Caulk	Front Door	Y	NT	PACM	9	7	
07-22	Exterior Caulk	Front Door	Y	NT	PACM	9	7	

ASBESTOS SAMPLE DATA TABLE Single-Family Residence – 1108 Folly Road – Charleston, SC

<u>Assessment Categories</u> (1) Thermal Systems Insulation – Good Condition (2) Thermal Systems Insulation – Damaged

(3) Thermal Systems Insulation -

Significantly Damaged

(4) Surfacing - Good Condition

(5) Surfacing – Damaged(6) Surfacing – Significantly Damaged

(7) Miscellaneous - Good Condition

(8) Miscellaneous - Damaged

(9) Miscellaneous - Significantly Damaged

Asbestos Present

AMOS – Amosite CHRY - Chrysotile CROC – Crocidolite ANTH - Anthophylite TREM - Tremolite

ACTI – Actinolite ND - None Detected NT - Not Tested PACM – Presumed ACM **Asbestos Detected**



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CONCLUSIONS/RECOMMENDATIONS

Asbestos Inspection

The comprehensive asbestos survey performed by Trident Environmental Services, Inc. on February 11, 2019 of the Single-Family Residence located at 1108 Folly Road in Charleston, South Carolina **did** reveal the presence of ACBM. Renovation or demolition activities that will disturb the ACBM will require removal per state and federal regulations. Asbestos materials can become hazardous when, due to damage, disturbance, or deterioration over time, they release asbestos fibers into the air of the building. All areas that contain asbestos should be utilized in a controlled manner to reduce the potential for disturbance. OSHA requires notification to all trades/contractors about the condition of the ACBM to prevent possible occupational exposures.

Demolition activities in public and commercial buildings are regulated by OSHA, EPA, and SCDHEC. Code 40 of Federal Regulations Part 61, Subpart M, Final Rule, "National Emissions Standards for Hazardous Air Pollutants" (NESHAP), and SCDHEC Regulation 61-86.1 require the proper removal and disposal of ACBM that is affected by renovation or demolition. Demolition of the subject structures will require written notification, proper transportation, and disposal per state and federal regulations.

Recommendation & Regulatory Requirements

The structure is damaged due to recent training activities conducted on the interior of the building. If it is determined that abatement cannot be performed then the structure will be treated as a RACM (regulated demolition) with all building materials disposed as ACBM waste based on the identification of ACB,. Perimeter air monitoring is required throughout the duration of the demolition and clean-up per SCDHEC protocol. The state requires an asbestos abatement project design when the identified ACBM is >3,000 square feet. Additionally, the structure will need to be secured to present access by individuals not licensed through SCDHEC for asbestos work.

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ASBESTOS PHOTOGRAPHS Single-Family Residence – 1108 Folly Road – Charleston, SC



HOMOGENEOUS AREA 01 1' X 1' CEILING TILE



HOMOGENEOUS AREA 04 DRYWALL



HOMOGENEOUS AREAS 02, 03 ROOF SHINGLE W/ FELT PAPER



HOMOGENEOUS AREA 05 JOINT COMPOUND



HOMOGENEOUS AREA 06 EXTERIOR CAULK







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COMPREHENSIVE ASBESTOS/LEAD-BASED PAINT SURVEY

Inspection Date: 02/11/2019

Preparation Date: 02/14/2019

Inspected & Prepared By:



Hunter Hanson S.C. Inspector License BI – 01468



Reviewed By:

RARmonon

Robin A. Brown S.C. Inspector License PD - 00613

SCDHEC ISSUED

Asbestos ID Card

Robin Brown



Comprehensive Asbestos/Lead-Based Paint Survey Single-Family Residence 1108 Folly Road – Charleston, SC Survey Date: February 11, 2019



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	SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005
	10801 Southern Loop Blvd.
	Pineville, NC 28134
	Mr. Lee Plumley Phone: 704-525-2205 Fax: 704-525-2382
	Email: lplumley@emsl.com
	http://www.emsl.com
ASBESTOS	FIBER ANALYSIS NVLAP LAB CODE 200841-0
Bulk Asbesto	os Analysis
Code	Description
18/A01	EPA 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials
Airborne As	bestos Analysis
Code	Description
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

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EMSL	EMSL Analytica 10901 Southern Loop Blvd Pinev Tel/Fax: (704) 525-2205 / (704) 52 http://www.EMSL.com / charlottel	I, Inc. Mile, NC 28134 25-2382 Mc@email.com		Customer ID: Customer PO: Project ID:	TRID50
Attention:	Hunter Hanson			Phone:	(843) 873-3648
	Trident Environmental Ser	vices, Inc.		Fax:	
	500 Oakbrook Lane			Received Date:	02/13/2019 9:30 AM
	Suite E			Analysis Date:	02/13/2019
	Summerville, SC 29485			Collected Date:	02/11/2019
Project:	1108 Folly Road - Main Ho	use, Charleston,	sc		
Tes	t Report: Asbestos A	nalysis of Bul	k Materials via EP/ Light Microscopy	A 600/R-93/116 Method	l using Polarized
Easterla	Description		Non-Asbe	stos	Asbestos
64 01	Back Break, Colling	Repearance	PON Colliford	12 Also Shows (7th of	None Detected
F1150 M 11-0007	Tile 1x1	Fibrous Homogeneous	30% Cellable	i si non-norcos (Cither)	TACKE LADICARD
01-02	Back Porch - Ceiling	Brown White	99% Cellulose	1% Non-fibrous (Other)	None Detected
	Tile 1x1	Fibrous			
emil03emil0002	Back Beerin College	Homogeneous Brown/Marke	99% Calk force	100 Kipes Shirour Philad	Magaz Particulard
01-03	Tile 1x1	Fibrous	obvi Celturose	130 INCIDITOUS (Other)	North Laberhold
411901411-0003	275 CVIII - 2	Homogeneous			
02-04	Roof - Roof Shingle	Red/Black Fibrous	5% Glass	10% Quartz 15% Ca Carbonate	None Detected
41790.7kt ri-0004		Homogeneous		70% Non-fibrous (Other)	0 <u>10 10 10 10 10 10 10 10 10 10 10 10 10 1</u>
02-05	Roof - Roof Shingle	Brown/Tan/Black Non-Fibrous	5% Glass	8% Quartz 10% Ca Carbonate 77% Also Shows (Other)	None Detected
03-02	Real - Real Fait	Riack	80% Calkdona	40% Noc-Fibrous (Other)	None Detected
00-07	1000 - 1000 F 44	Fibrous	0010 0000000		The Local and
02.08	Read Dead East	Plomogeneous	808 Call fore	2000 Mars Electure (Cither)	None Detected
41100415-0027	PODI - PODI Pela	Fibrous Homogeneous	BU% Centrate	HONE MONHIBROUS (OUNER)	None Lateraid
04-10	Living Room - Drywall	Gray	2% Cellulose	96% Non-fibrous (Other)	None Detected
0.958.05.05	S 2	Fibrous	2% Glass	8.18	
411901471-0008	These Reverse Process	Homogeneous	ON Collidera	WTW Man Shares 17th av	Marin Dataset
41390 M FT 40009	Living Hoom - Drywait	Fibrous Homogeneous	1% Glass	97% Non-horous (Uther)	wone Detected
04-12	Living Room - Drywall	Gray	4% Cellulose	95% Non-Sbrous (Other)	None Detected
dealer an an an an an	10000000000000000000000000000000000000	Fibrous	1% Glass	1-0000000000000000000000000000000000000	2.4583 3432 3557
06.53	Laing Bases Jaint	The		QEX Not About 17th of	28 Chanaila
00-13	Compound	Non-Fibrous		sem nem-ribrous (Other)	14 Citysone
41190 M 11-0011		Homogeneous			
05-14	Living Room - Joint Compound				Positive Stop (Not Analyzed)
41150 M 11-0012	200000000				
05-15	Living Room - Joint Compound				Positive Stop (Not Analyzed)
£11901411-0013	Thins Prove Artist				Deckie Dros Mint Ford
00-16	Compound				Positive btop (Not Analyzed)
ernan menanik					
05-17	Hailway - Joint Compound				Positive Stop (Not Analyzed)
05-18	Bedroom - Joint				Positive Stop (Not Analyzed)
411901471-0016	Compound				V-01 - 43 - 3
(in the low of the second data	0203/2010 16:06:53				

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EMISI Telf	MSL Analytica ht Southern Loop Blvd Pine fax: (704) 525-2205 / (704) 5 //www.EMSL.com / charlotte	II, Inc. vitle, NC 28134 25-2382 lab@ermail.com		EMSL Order: 41 Customer ID: TF Customer PO: Project ID:	1901411 HD50
Test R	eport: Asbestos A	nalysis of Bulk	k Materials via EPA 60 Light Microscopy	0/R-93/116 Method u	sing Polarized
			Non-Asbestos		Asbestos
Lample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
0-19	Compound				Loonus orbb (usir yunitszeri)
11805411-0017	Recourses and recourse	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		California de California de Cal	1000 - and 110 - 110 - 1
6-20	Front Door - Exterior Caulk	Gray Non-Fibrous		15% Ca Carbonate 82% Non-fibrous (Other)	3% Chrysotle
7190 N 11-00 N		Homogeneous			
06-21	Window 1 - Exterior				Positive Stop (Not Analyzed)
11901411-0019	Caulk				
Analystja) Lacy Searcy (8) Sarah Braneman (4)			4	Evan L. Plums	Aanager Jacop
EMSL maintains liability i Method"), but augmented witten approval by EMSI samples received in acce	initiad to cost of analysis. The a with procedures outlined in the 	bove analyses were parfor 1993 ("final") version of the for sample collection activ a noted. This report must a reduction for all non-finable NVLAP Late Code 200841-	med in ganeral compliance with Appen in method. This report relates only to the tes or analytical method limitations. In the used by the clear to clearin produce in organically bound materials prior to a 42. WX 3353 00312	nde E to Bubpart E of 40 CFR (previ to samples reported above, and may interpretation and use of test results a diretification, approval, or endoser analysis. Estimation of anositainty is	ousily EPA 800/MA-82-020 "Imamm not be resproduced, except in full, without re the responsibility of the client. All near by NVLAP, Visiti or any agency of available on request.
the federal government. Samples analyzed by EN	of surface of a group, no				
the foderal government. Samples analyzed by EN	13/2019 16:08:53				

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EMSL	EMSL Analytica 10801 Southern Loop Bird Pite Tel/Fax: (704) 525-2205 / (704) http://www.EMSL.com / charlot	II, INC. antila, NC 28134 525-2382 Ielab@email.com		EMSL Order: Customer ID: Customer PO: Project ID:	411901411 TRID50
Attention: Project:	Hunter Hanson Trident Environmental S 500 Oakbrook Lane Suite E Summerville, SC 29485 1108 Folly Road - Main	ervices, Inc. House, Charleston, SC	>	Phone: Fax: Received Date: Analysis Date: Collected Date:	(843) 873-3648 02/13/2019 9:30 AM 02/15/2019 02/11/2019
Te	st Report: Asbestos	Analysis of Non-I EPA/600/R-9	Friable Organically E 3/116 Section 2.5.5.1	Bound Materials by	y TEM via
Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fi	ibers Asbestos Types
12-06 111901411-0020	Roof - Roof Shingle	Brown/Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Delected
13-09 ////2014/15-002/1	Roof - Roof Felt	Black Non-Pibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
				Evan L	Phumber
Analyst(s)				Evan L	Phumber
Analyst(s) Aaron Hartley (2)		<u> </u>		Unan L Lee Plumle or other	Mumber approved signatory
Analyst(s) Aaron Hartkey (2) This laboratory is no except in Sul, withou multiple layers ().e. (f responsible for % astedos in total t writen approval by EMSL Analytics noleum, walitoand, etc.] are reporte	sample when the residue crig o e, inc. Samples received in goo daw a single sample	s submitted for analysis. The above d condition unless otherwise moted	Lee Plumle or other unless requested by the clent, i	ested. This report may not be reproduced. balding meterials manufactured with
Analyst(s) Aaron Hartley (2) Tas teocratory is no except in full, withour multiple taylors ().e. (Beingtles analyzed t	rt responsible for % astrados in total t written approval by EMSL Analytici inoleum, walitoand, etc.) are reporte g/EMSL Analytical. Inc. Preville, NJ	sample when the residue only a al, inc. Samples received is goo d at a single sample	s submitted for analysis. The above d condition unless otherwise noted	Lee Plumle or other unless requested by the client, I	Putunky sy, Laboratory Manager approved signatory ested. This report may not be reproduced, bailing meterials menufactured with
Analyst(s) Aaron HarBey (2) Tas laboratory is ro except in full, withou multiple layers (), e. (Barrgles analyzed b Initial report from:	f responsible for % astedos in total t written approval by EMS, Analytici incleum, wellboard, etc.] are reporte y EMSL Analytical. Inc. Prineville, NC 02/18/2019 08:11:10	sample when the residue only a N, Inc. Samples received in goo dae a single sample	s submitted for analysis. The above of condition unless otherwise moted	Lee Plumle or other unless requested by the clerit. I	Purchastic and the second signatory and the second signatory and the second signatory and the second signatory and the second se

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EMEL	EMSL Order	Number (Lab (stody /se Only):			
IMEL AMADYDEAL INC.		41190141		PHONE: Fax:		
Company Name : Trident E	invironmental Services, Inc.	EMSL Cust	tomer ID:			
Street: 500 Oakbrook Lane,	Suite E	City: Summ	nerville	State/Provie	ce: SC	
Zip/Postal Code: 29485	Country: US	Telephone	£ 843-873-3648	Fax #:		
Report To (Name): Hunter H	lanson	Please Pro	Please Provide Results:			
Email Address: hunterham	son@tridentenvironmental.com	Purchase (Order:	and the second second		
Project Name/Number: U.S. State Samples Taken:	EMSL Proj CT Sample rent - If Bill to is Differ	ect ID (Internal Use s: Commerciali Int note instructions in Co to from Mind casts	Oniy): Taxable 🔲 Resi mmenta**	dential/Tax Exer		
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WOSH 7400	NIOSH 7402	int 783	Microvac - AS	D6480		
PLM -Bulk (reporting limit)	24/HA EPA Level II		Carpet Sonic	ation (EPA 600/J-	93/167)	
Point Count 400 (<0.25%) 1000 (<0 Point Count w/Gravimetric 400 (<0.25%) 1000 (<0 NYS 198.1 (thable in NY) NYS 198.6 NOB (non-fria NYS 198.8 SOF-V NIOSH 9002 (<1%)	Image: Constraint of the second se	Image: Constraint of the state of the s		PLM EPA 600/R-93/116 with milling prep (* 0.2 TEM EPA 600/R-93/116 with milling prep (* 0.1 TEM Qualitative via Filtration Prep Cincinneti Method EPA 600/R-04/004 – PL/ MT (BC only) Other:		
Check For Positive Stop	- Clearly Identify Homogenous G	Filter	Pore Size (Air Sa	mples): 🔽 0.8µ	m0.45 µm	
Samplers Name: Hunter	Hanson	Sampler	s Signature: 11	ante A	un	
Sample #	Sample Desc	ription	Vol	ume/Area (Air) ' HA # (Bulk)	Date/Time Samp ed	
Client Sample # (s):	who den	Date: 2-11	Total:	of Samples: Time:	22	
1 /	ornyt C	Nate: 2-13	~19	Time:	9:30m	
Received (Lab): 6.2 Comments/Special Instruction What a labor R	enwert, Positive	Stop 5	CDHECK	HCEC V	ahl	

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Project Name: Location:	Charlestar	and - Main House			Date	2-1	69
	DESCRIPTION	OF EACH SAMPLE AREA			AL	MATERIA	n Ls
Area Sample D	Location	Description	Priložilo (*)	Prindle (H	Asbestus Type	COND Adments	A2 A 1858
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os 13 14	living Room	Joint Company				6	
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2							

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Ртоје	ct Name:	1108 Folly	Raul			Date	24	1-19
	Location.	DESCRIPTION OF	EACH SAMPLE AREA		-	A	SSESSM	ENT
Homog	Sample ID	Location	Description	Prostie	Polebia (-)	Asbestos Type	COND	AZ
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LEAD BASED PAINT INSPECTION

Lead-based paint testing was conducted in order to identify finishes that contain lead and which may be disturbed during the scheduled demolition/renovation. The identification of these lead painted finishes will aid in the prevention of occupational exposure and/or environmental releases of lead dust. The lead survey describes the types, locations, and recommendations regarding the areas as related to lead-based paint.

Lead-Based Paint

The CPSC and the SCDHEC define lead-based paint as paint or other surface coatings, including varnish, shellac, stains, and enamels, that contain lead equal to or greater than 0.5% by weight or 5000 parts per million (ppm). OSHA does not recognize a percentage of lead by weight for definition purposes, only the presence or absence of lead. The current OSHA regulations recognize an airborne action level of thirty micrograms per cubic meter (30ug/m³) during an eight-hour work shift, and a permissible exposure limit of fifty micrograms per cubic meter (50ug/m³). For the purpose of this survey, the OSHA Standard of any detectable limit is considered a lead-based paint.

Lead-Based Paint Investigative Procedures

The survey and test methods used to identify lead-based paint of the Single Family Residence located at 1108 Folly Road in Charleston, South Carolina generally followed guidelines set forth by the Department of Housing and Urban Development (HUD) entitled "Guidelines for the Evaluation and Control of Lead Based Paint Hazards in Housing", June 1995. These guidelines represent a national compilation of technical protocols, practices, procedures on testing, abatement, worker protection, clean-up, and disposal of lead-based paint in structures. Representative samples were collected from suspect paint finishes of the subject structure. Samples were collected by scoring the area of a suspect paint down to the substrate utilizing a sharp implement and placing the sample in a sealed container. The suspect finishes were based on the color of the topcoat and the underlying layers and/or the substrate on which it has been applied.

The necessary data including sample number, location, and description were recorded. A chain-of-custody form was completed for the samples and accompanied the samples when shipped via Federal Express to the laboratory for analysis. The suspect lead-based paint samples were recorded on a Chain of Custody and shipped to Electron Microscopy Services Laboratory Analytical, Inc. (EMSL) to be analyzed by Flame Atomic Absorption Spectrophotometer (AAS) NIOSH method 7082 per the American Society for Testing and Materials (ASTM) Standard D3335-85A. The laboratory is accredited by the AIHA Lab Accreditation Program. (Lab Code: 19283).



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LEAD-BASED PAINT SUMMARY & DATA TABLE

Lead-Based Paint Summary

Zero of the seven suspected lead-based paint samples collected and analyzed from the Detached Garage located at 1108 Folly Road in Charleston, South Carolina exhibited concentrations above the SCDHEC Bureau of Land and Waste Management and CPSC threshold of equal to, or greater than, 0.05% total lead by weight. Zero of the two suspected lead-based paint samples met the OSHA standard of any detectable limit of lead-based paint.

Lead-Based Paint Data Table

SAMPLE	AREA / SAMPLE ID	LABORATORY	
Sample ID	Substrate	Lead Concentration	PAINT DESCRIPTION
Pb-01	Wood Trim	< 0.0093%	White
Pb-02	Concrete Block	<0.0096%	Beige
Pb-03	Wood Wall	<0.0092%	Gray
Pb-04	Drywall	< 0.0094%	Blue
Pb-05	Drywall	<0.0088%	Beige
Pb-06	Drywall	< 0.0097%	Pink
Pb-07	Wood Panel	<0.0095%	Orange

OSHA Regulatory Limit = any detectable level of lead

The table above reflects the OSHA Standard of any detectable limit is considered a lead-based paint. Lead based paint was not identified based on lead concentrations below the limit of detection.



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LEAD-BASED PAINT CONCLUSION / RECOMMENDATIONS

Conclusions

The lead-based paint survey revealed that zero of the seven painted surfaces contained lead above the SCDHEC and CPSC of 0.05%, by weight. The presence or absence of lead-based paint applies to sampled or assessed surfaces on the dates of the field testing with the understanding that conditions may change due to deterioration or maintenance. It should be noted that some painted surfaces may contain levels of lead below the SCDHEC and/or HUD action levels which could create lead-dust hazards if the paint is turned into dust by abrasion, scraping, or sanding.

Recommendations

Refer to State (SCDHEC) guidelines for additional information about the state-specific requirements regarding the disposal of materials containing lead paint including Toxicity Characteristic Leaching Procedure (TCLP) analysis. Accumulations of lead paint (chips, blasting debris, etc.) must be analyzed by TCLP to determine if the debris is classified as "hazardous waste" (greater than or equal to 5mg/kg). Collection and analysis of a TCLP sample is recommended prior to disposal of any waste with a potential to contain lead.

Destructive actions to lead-based paint finishes that may create a lead exposure hazard (sanding, manual demolition, torch cutting, blasting, etc.) require compliance with OSHA, including proper training, exposure monitoring and proper disposal. OSHA considers all lead containing paints applicable to enforcement, and would require training, engineering controls, and administrative controls in accordance with 29 CFR 1926.62. In the event building components that tested positive for lead are disturbed during renovations, then contractors and workers should be informed as to the presence of LBP. Air monitoring for airborne lead concentrations is recommended during any lead abatement activities.

Building components containing lead are to be handled and disposed of in accordance with federal and state regulations when removed from the building. Components containing lead can be segregated from other building materials, wrapped in plastic, secured, and disposed of at a **Municipal Solid Waste Landfill**, also termed Subtitle D landfill. The waste generated by renovation and/or demolition activities is also regulated.



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LEAD-BASED PAINT PHOTOGRAPHS



PB-01 WHITE ON EXTERIOR WOOD TRIM



PB-03 GRAY ON INTERIOR WOOD WALL



PB-05 BEIGE ON DRYWALL



PB-02 BEIGE ON CONCRETE BLOCK



PB-04 BLUE ON DRYWALL



PB-06 PINK ON DRYWALL

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LEAD-BASED PAINT PHOTOGRAPHS



PB-07 ORANGE ON WOOD PANEL

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ENEL ANALYTICAL, INC.		111 10 1	1995 V			
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Report To (Name) Kevin Leedy	Province.so	Telephose	#-843-873	3648	Country: 0	an .
Email Address kevinleedv@tridenterv	ironmental com	East #	e #:040-010	5040	Durchase	Order
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Air	NIOSH 708	2	Flame Atomic	Absorption	4 ug/filter	1
19-501	NIOSH 710	6	Graphite Fi	mace AA	0.03 µg/filte	er 🗖
Man and a second se	NIOSH 7300M/NIO	SH 7303	ICP-0	DES	0.5 µg/filte	r 🗌
Wipe* ASTM	SW846-7000	8	Flame Atomic	Absorption	10 µg/wipe	
"If no box checked, non-ASTM Wipe	SW846-6010B	or C	ICP-	DES	1.0 µg/wipe	
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	SW846-1311/SW846-	6010B or C	ICP-	DES	0.1 mg/L (pp	m)
SPLP	SW846-1312/7000BA	SM 3111B	Flame Atomic	Absorption	0.4 mg/L (pp	m)
	SW846-1312/SW846-	6010B or C	ICP-0	DES	0.1 mg/L (pp	m)
TTLC	22 CCR App. II, 700	4010B of C	Frame Aloma ICP-0	DES	2 ma/kg (pp	m)
STIC	22 CCR App. II, 700	08/7420	Flame Atomic	Absorption	0.4 mg/L (pp	m) []
SILC	22 CCR App. II, SW846-	6010B or C	ICP-0	DES	0.1 mg/L (pp	m)
Soll	SW846-7000	08	Flame Atomic	Absorption	40 mg/kg (pp	(m)
	SW846-60108	orC	ICP-(DES	2 mg/kg (ppr	m)
Wastewater Unpreserved	EPA 200.9	-70008	Graphite Fumace AA		0.4 mg/L (pp	(m)
Preserved with HNO ₃ pH < 2	EPA 200.7	2	ICP-0	ES	0.020 mg/L (p	(pm)
Drinking Water Unpreserved	EPA 200.8	14	ICP-	MS	0.001 mg/L (pp	om)
Preserved with HNO3 pH < 2	EPA 200.9		Graphite Fi	Imace AA	0.003 mg/L (pp	pm) .
	40 CER Part	50	ICP-(YES	0.003 mg/L (pp	
TSP/SPM Filter	40 CFR Part	50	Graphite Fu	mace AA	3.6 µg/filter	H
Other:						
Name of Sampler:Hunter Hanson		Signa	ture of Sam	pler. Huy	Willen.	
Sample # Locati	on		Volume//	Area	Date/T	ime Sampled
Client Sample #s -			T	otal # of Sa	mples: 7	l l
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EMS	EMSL ORDER ID (Lab	CUSTODY Use Only):	PHONE:() Fax:()
EMEL ANALYT	41190 14H		
Additional P	ages of the Chain of Custody are only necessary if nee	ded for additional sample	information
Sample #	Location	Volume/Area	Date/Time Sample
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Pb-02	Buse on Contrase Block		
Pb-03	bayan wood will Fig		
Pb-04	Blueon Dryvall		
2-19	Berge on Drywall		
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Atm Kevin Leedy Phome (#43) 873-3046 Triderit Environmental Services, Inc. Fax Received: 02/13/19.9.30.AM S00 Oakbrook Lane Collected: 2/13/19.9.30.AM Suite E Summerville, SC 29485 Project: 108 Foldy R4. Main House, Charleston, SC Lead Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)* Lead Advisor of the State White on EA Wood Tam South of the State Begreen Concrete Book Lead Advisor of the State Begreen Concrete Book Book White on EA Wood Tam Book Wood Wait In Book Of the State Begreen Concrete Book Difference Manager Advisor of the State Begreen Concrete Book Book Of the State Book On Dav	EMBL	EMSL Analytical, Ir 10801 Southern Loop Blvd, Pine Phone/Fax: (704) 525-2205 / () http://www.EMSL.com	IC. ville, NC 28134 04) 525-2382 charlottelab@emsl.com			EMSL Order: CustomerID: CustomerPO: ProjectID:	411901415 TRID50
Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/700DB) Inter Sample Bacchipsi Inter Sample Bacchipsi Bacchip	Attn: Kevin Leed Trident Env 500 Oakbro Suite E Summerville Project: 1108 Folly Ro	y ironmental Services, ok Lane e, SC 29485 1 Main House, Charleston,	, Inc. sc	Phone Fax: Received: Collected:	(843) 873-3648 02/13/19 9:30 AF 2/11/2019	и	
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