



LIMITED ASBESTOS & LEAD INSPECTION REPORT

FOR

UNIVERSITY OF SOUTH CAROLINA- UNION

**309 East Academy Street
Union, South Carolina 29379**

LOCATION

**USC- Union, Central Building- Roof Replacement/ Repair Project
309 East Academy Street
Union, South Carolina 29379**

INSPECTION DATE: November 9, 2017

REPORT DATE: November 17, 2017

INSPECTORS

Evans Harris – SC-DHEC License #BI-01224

Dustin Henderson – SC-DHEC License #BI-01510

For

**Crossroads Environmental, LLC
1258 Boiling Springs Road
Spartanburg, South Carolina 29303
(864) 541-8736
CRE Project # 15584-IN**

TABLE OF CONTENTS

INSPECTION REPORT/LETTER

- BACKGROUND INFORMATION
- BUILDING/AREA DESCRIPTION
- INSPECTION STRATEGY/SAMPLING PROTOCOL
- RESULTS
- RELEVANT REGULATORY REQUIREMENTS/RECOMMENDATIONS
- CLOSING STATEMENTS AND LIMITATIONS

ATTACHMENTS

- ATTACHMENT I: ASBESTOS SUMMARY TABLE
- ATTACHMENT II: LABORATORY REPORTS
- ATTACHMENT III: SAMPLE LOCATION SKETCHES
- ATTACHMENT IV: INSPECTOR'S LICENSE/ACCREDITATION

November 17, 2017

Mr. Lee Miller
University of South Carolina- Union
309 E. Academy Street
Union, South Carolina 29379

Re: Limited Asbestos & Lead Inspection Report
USC-Union, Central Building- Roof Replacement/ Repair Project
309 E. Academy Street, Union, SC
CRE Project Number: 15584-IN

Dear Mr. Miller:

Crossroads Environmental, LLC (CRE) completed a limited asbestos and lead inspection at the University of South Carolina-Union, located at 309 E. Academy Street in Union, South Carolina on November 9, 2017. The scope of work was limited to sampling all building materials to be impacted by a roof replacement and/or repair project that encompasses all roofing materials excluding the flat, EPDM membrane sections. The inspection was performed by SC-DHEC Licensed Asbestos Inspectors, and in accordance with South Carolina Department of Health and Environmental Control (SC-DHEC) and Environmental Protection Agency (EPA) Requirements. **A detailed summary table of the sampling is included in Attachment I; however, this report should be read in its entirety.**

Building Description

The Central Building at USC-Union is composed of three (3) building sections that have been connected through renovations over time. The roofing system is uniform throughout all sections, and features primarily asphalt/fiberglass shingles over plywood decking on the gabled sections, with EPDM membrane covering the low slope areas where the building sections were connected. The northwest and northeast entranceways are covered with pre-finished, standing seam metal panels. Non-suspect building materials identified were silicone caulking on the central section chimney and copula flashing.

Inspection Strategy/Sampling Protocol

Asbestos

The asbestos inspection consisted of grouping suspect asbestos containing materials into homogeneous areas based on the color and texture of the material, and then performing representative sampling of the materials included in those homogeneous areas. SC-DHEC has requirements for the minimum number of samples that can be collected from each homogeneous area (three samples of each miscellaneous material, three samples of each type of thermal system insulation, and the sample requirements for surfacing are based on square footage). Following completion of the on-site inspection/sampling, samples were submitted to an accredited laboratory for analysis.

As of June 27, 2008, SC-DHEC requires that any non-friable organically bound (NOB) material that is suspect to contain asbestos, such as floor tile, mastics, roofing material, and caulking must be analyzed by transmission electron microscopy (TEM) if polarized light microscopy (PLM) analyses of that material indicate that no asbestos was detected.

Lead

In addition to asbestos sampling, lead testing was performed by collecting paint chips from representative painted components and then submitting the samples to an accredited laboratory for analysis by flame atomic absorption spectroscopy.

Please Note: The north section painted fascia/soffit could not be accessed due to height, and for purposes of this report is assumed as homogeneous to the other sections.

Results

Asbestos

EPA recognizes a material as Asbestos Containing Material (ACM) if an asbestos content of greater than one percent asbestos is detected in a representative sample analyzed by polarized light microscopy.

Results indicated that no asbestos was detected in any of the materials sampled.

Lead

According to the Environmental Protection Agency (EPA), paint containing ≥ 1 mg/cm² of lead (by XRF) or 0.5% by weight (paint chip analysis) is considered lead-based paint (LBP).

Where worker protection is concerned, the Occupational Safety and Health Administration (OSHA) does not specify a lead level in paint. The OSHA standard (Lead

in Construction Interim Final Rule, 29 CFR 1926.62) indicates that if airborne lead levels exceed the Action Level (AL is $30 \mu\text{g}/\text{mm}^3$) from a potential disturbance, then an employee exposure assessment would be required.

Lead-based paint was detected on the fascia/soffit of the south (original) section, central section and copula. Please Note: The north section fascia/soffit could not be accessed due to height, but is assumed as homogeneous to the other sections.

Relevant Regulatory Requirements/Recommendations

Lead

Occupational Safety and Health Administration (OSHA) Standard 29 CFR 1926.62 applies to new construction, alteration, repair, or renovation of structures, substrates, or portions thereof, that contain lead, or materials containing lead. The Contractor performing work affecting the paint during roof replacement will be responsible for compliance with this Standard as well as OSHA Standard 29 CFR 1910.1025 (general industry).

In summary, Contractors disturbing components paint with LBP must:

- Be properly trained in accordance with OSHA 29 CFR 1926.62
- Use safe lead-work practices at all times
- Perform an initial exposure assessment for each task being performed
- Utilize proper respiratory protection and have documentation including Respiratory Protection and Medical Surveillance Plans

Additionally, all lead-based paint that has been scraped from its substrate must be properly disposed of following waste characterization by toxicity characteristic leaching procedure (TCLP).

Closing Statements and Limitations

Every effort was made to identify all materials in accessible areas. There is the possibility that suspect materials were not identified in inaccessible areas. If any suspect material is discovered that is not included within this report, it should be sampled before it is physically disturbed.

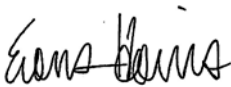
This document has been prepared by Crossroads Environmental, LLC at the request of and for the exclusive use of the University of South Carolina- Union. This report represents the findings from the date that it was inspected, and is limited in scope to that indicated above.

Crossroads Environmental, LLC appreciates the opportunity to provide the University of South Carolina- Union with our consultative services. Should you have any questions or need additional information, please do not hesitate to contact us.

Sincerely,



Dustin Henderson
Licensed Inspector



Evans Harris
Licensed Inspector



Kay H. Horton
President

EH

Attachments – (4)

ATTACHMENT I
ASBESTOS SUMMARY TABLE

CROSSROADS ENVIRONMENTAL, LLC ASBESTOS INSPECTION REPORT							CRE JOB #: 15584-IN		
Location:		USC-Union-- Central Building Roof Replacement/ Repair Project							
Client:		University of South Carolina- Union					DATE: 11/9/2017		
<p>Key: A=Amosite, C=Chrysotile, Cr=Crocidolite, Tr=Tremolite, Ac=Actinolite Asbestos, Misc.=Miscellaneous, HA#=Homogeneous Area #, PLM=Polarized Light Microscopy, TEM=Transmission Electron Microscopy, /=PLM and/or TEM Analysis Not Required sq.ft.=Square Feet, cu.ft.=Cubic Feet, In.ft.=Linear Feet, HJI=Hard Joint Insulation, TSI=Thermal System Insulation, BUR=Built-up Roofing, Surf=Surfacing NAD=No Asbestos Detected, SP=Stop Positive</p>									
HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
01	Misc	Roof Shingles & Felt Paper	263 Shingle 263 Felt	NAD NAD	/ /	South section copula roof	N/A	Good; Non-Friable	Located over gabled roof sections.
			264 Shingle 264 Felt	NAD NAD	/ /	Central section at damage			
			265 Shingle 265 Felt	/ /	NAD NAD	North section gable			
02	Misc	Mastic & Felt Coating Over Playwood	266 Mastic 266 Felt	NAD NAD	/ /	Copula	N/A	Good; Non-Friable	Located on flat section under copula.
			267 Mastic 267 Felt	NAD NAD	/ /	Copula			
			268 Mastic 268 Felt	/ /	NAD NAD	Copula			
03	Misc	Nail & Flashing Caulk	269	NAD	/	North section gable	N/A	Good; Non-Friable	Located over "end nails", vent penetrations, etc.
			270	NAD	/	North section attic vent			
			271	/	NAD	South section gable			

ATTACHMENT II
LABORATORY REPORT(S)



November 10, 2017

Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

CLIENT PROJECT: USC- Union Roof; 15584-IN
CEI LAB CODE: A17-15917

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on November 9, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

A handwritten signature in black ink, appearing to read "Tianbao Bai".

Tianbao Bai, Ph.D., CIH
Laboratory Director





ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Crossroads Environmental

CLIENT PROJECT: USC- Union Roof; 15584-IN

CEI LAB CODE: A17-15917

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

REPORT DATE: 11/10/17

TOTAL SAMPLES ANALYZED: 6

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: USC- Union Roof; 15584-IN

CEI LAB CODE: A17-15917

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
263	Layer 1	A2541250	Black	Roof Shingle	None Detected
	Layer 2	A2541250	Black	Felt Paper	None Detected
264	Layer 1	A2541251	Black	Roof Shingle	None Detected
	Layer 2	A2541251	Black	Felt Paper	None Detected
265	Layer 1	A2541252		Sample Submitted for TEM Analysis	
	Layer 2	A2541252		Sample Submitted for TEM Analysis	
266	Layer 1	A2541253	Black	Mastic	None Detected
	Layer 2	A2541253	Black	Felt Coating	None Detected
267	Layer 1	A2541254	Black	Mastic	None Detected
	Layer 2	A2541254	Black	Felt Coating	None Detected
268	Layer 1	A2541255		Sample Submitted for TEM Analysis	
	Layer 2	A2541255		Sample Submitted for TEM Analysis	
269		A2541256	Black	Caulking	None Detected
270		A2541257	Black	Caulking	None Detected
271		A2541258		Sample Submitted for TEM Analysis	



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

CEI Lab Code: A17-15917
Date Received: 11-09-17
Date Analyzed: 11-10-17
Date Reported: 11-10-17

Project: USC- Union Roof; 15584-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
263 Layer 1 A2541250	Roof Shingle	Heterogeneous Black Fibrous Bound	60%	Fiberglass	35%	Tar	None Detected
					5%	Gravel	
Layer 2 A2541250	Felt Paper	Homogeneous Black Fibrous Bound	70%	Cellulose	30%	Tar	None Detected
264 Layer 1 A2541251	Roof Shingle	Heterogeneous Black Fibrous Bound	60%	Fiberglass	35%	Tar	None Detected
					5%	Gravel	
Layer 2 A2541251	Felt Paper	Homogeneous Black Fibrous Bound	70%	Cellulose	30%	Tar	None Detected
265 Layer 1 A2541252	Sample Submitted for TEM Analysis						
	Layer 2 A2541252	Sample Submitted for TEM Analysis					
266 Layer 1 A2541253	Mastic	Homogeneous Black Fibrous Bound	40%	Cellulose	60%	Tar	None Detected
Layer 2 A2541253	Felt Coating	Homogeneous Black Fibrous Bound	60%	Fiberglass	40%	Tar	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

CEI Lab Code: A17-15917
Date Received: 11-09-17
Date Analyzed: 11-10-17
Date Reported: 11-10-17

Project: USC- Union Roof; 15584-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
267 Layer 1 A2541254	Mastic	Homogeneous Black Fibrous Bound	40%	Cellulose	60%	Tar	None Detected
Layer 2 A2541254	Felt Coating	Homogeneous Black Fibrous Bound	60%	Fiberglass	40%	Tar	None Detected
268 Layer 1 A2541255	Sample Submitted for TEM Analysis						
Layer 2 A2541255	Sample Submitted for TEM Analysis						
269 A2541256	Caulking	Homogeneous Black Fibrous Bound	40%	Cellulose	60%	Tar	None Detected
270 A2541257	Caulking	Homogeneous Black Fibrous Bound	40%	Cellulose	60%	Tar	None Detected
271 A2541258	Sample Submitted for TEM Analysis						



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

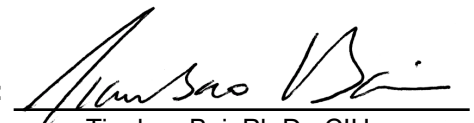
Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission 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.

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ANALYST:


Megan Fisher

APPROVED BY:


Tianbao Bai, Ph.D., CIH
Laboratory Director





730 S.E. Maynard Rd., Cary, NC 27511
 Tel: 919-481-1413; Fax: 919-481-1442

CHAIN OF CUSTODY

⑨ A17-15.917
 A 2541250
 A 2541258

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY CONTACT INFORMATION

Company: CROSSROADS ENVIRONMENTAL, LLC	Client #:
Address: 1258 BOILING SPRINGS RD. SPARTANBURG, SC 29303	Job Contact: Kay H. Horton
	Email: RESULTS@CROSSROADSENV.NET
	Tel: 864-541-8736
Project Name: USC-Union Roof	Fax: 864-541-8776
Project ID #: 15584-IN	P.O. #:

ASBESTOS	METHOD	4 HR*	8 HR*	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600			X			
TEM BULK	CHATFIELD			X			
PLM POINT COUNT (400)	EPA 600						
PLM POINT COUNT (1000)	EPA 600						
PLM GRAVIMETRIC	EPA 600						
PLM GRAV w POINT COUNT	EPA 600						
OTHER:							

POSITIVE STOP ANALYSIS	X
SOUTH CAROLINA SAMPLES	X
NORTH CAROLINA SAMPLES	

TEM INSTRUCTIONS	
BEGIN TEM ANALYSIS AFTER NEGATIVE PLM	X
ANALYZE TEM SAMPLES SIMULTANEOUSLY WITH PLM	

				<input checked="" type="checkbox"/> Accept Samples <input type="checkbox"/> Reject Samples
Relinquished By:	Date/Time	Received By:	Date/Time	
Dustin Henderson <i>[Signature]</i>	11/8/2017 0:00	<i>A</i>	11 9 17	
			9:10	

*Call to confirm RUSH analysis.



November 13, 2017

Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

CLIENT PROJECT: USC-Union Roof; 15584-IN
CEI LAB CODE: T17-2354

Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on November 10, 2017. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield Method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

A handwritten signature in black ink, appearing to read 'Tianbao Bai', is written in a cursive style.

Tianbao Bai, Ph.D., CIH
Laboratory Director



ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

Crossroads Environmental

CLIENT PROJECT: USC-Union Roof; 15584-IN

CEI LAB CODE: T17-2354

TEST METHOD: Bulk Chatfield
EPA 600 / R93 / 116

REPORT DATE: 11/13/17

TEL: 866-481-1412

www.ceilabs.com



ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

CEI Lab Code: T17-2354
Date Received: 11-10-17
Date Analyzed: 11-13-17
Date Reported: 11-13-17

Project: USC-Union Roof; 15584-IN

TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
265 T70289	Black Roof Shingle	0.276	22.8	40.2	37	None Detected
265 T70290	Black Felt Paper	0.461	97.4	2.4	.2	None Detected
268 T70291	Black Mastic	0.492	70.9	22	7.1	None Detected
268 T70292	Black Felt Coating	0.411	66.9	8.5	24.6	None Detected
271 T70293	Black Caulking	0.569	45.7	36.7	17.6	None Detected



LEGEND: None

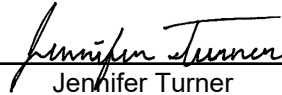
METHOD: CHATFIELD & EPA/600/R-93/116

LIMIT OF DETECTION: Varies with the weight and constituents of the sample (<1%)

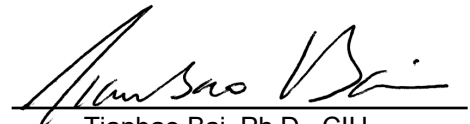
REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by CEI Labs, Inc. CEI Labs 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. Estimated measurement of uncertainty is available on request. Samples were received in acceptable condition unless otherwise noted.

ANALYST:


Jennifer Turner

APPROVED BY:


Tianbao Bai, Ph.D., CIH
Laboratory Director



T17-2354
 (5) T70 289-293

(9) 11-15-917
 A 254 1250
 A 254 1258

CHAIN OF CUSTODY

730 S.E. Maynard Rd., Cary, NC 27511
 Tel: 919-481-1413; Fax: 919-481-1442

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY CONTACT INFORMATION	
Company: CROSSROADS ENVIRONMENTAL, LLC	Client #:
Address: 1258 BOILING SPRINGS RD.	Job Contact: Kay H. Horton
SPARTANBURG, SC 29303	Email: RESULTS@CROSSROADSENV.NET
	Tel: 864-541-8736
Project Name: USC-Union Roof	Fax: 864-541-8776
Project ID #: 15584-IN	P.O. #:

ASBESTOS	METHOD	4 HR*	8 HR*	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600			X			
TEM BULK	CHATFIELD			X			
PLM POINT COUNT (400)	EPA 600						
PLM POINT COUNT (1000)	EPA 600						
PLM GRAVIMETRIC	EPA 600						
PLM GRAV w POINT COUNT	EPA 600						
OTHER:							

POSITIVE STOP ANALYSIS	X
SOUTH CAROLINA SAMPLES	X
NORTH CAROLINA SAMPLES	

TEM INSTRUCTIONS	
BEGIN TEM ANALYSIS AFTER NEGATIVE PLM	X
ANALYZE TEM SAMPLES SIMULTANEOUSLY WITH PLM	

		<input checked="" type="checkbox"/> Accept Samples <input type="checkbox"/> Reject Samples	
Relinquished By:	Date/Time	Received By:	Date/Time
Dustin Henderson <i>[Signature]</i>	11/8/2017 0:00	<i>A</i>	11 9 17
<i>[Signature]</i>	11/10/17 11:00		9:10

*Call to confirm RUSH analysis.

LABORATORY REPORT

LEAD IN PAINT

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

CEI Lab Code: C17-0840
Received: 11-09-17
Analyzed: 11-13-17
Reported: 11-13-17

Project: 15584-IN

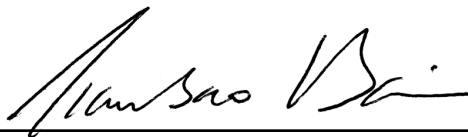
ANALYSIS METHOD: EPA SW846 7000B

CLIENT ID	CEI LAB ID	PPM (µg/g)	CONCENTRATION % BY WEIGHT
LBP001	CA62528	51	0.0051
LBP002 Sample contains substrate, potentially affecting results	CA62529	30000	3.0
LBP003 Sample contains substrate, potentially affecting results	CA62530	55000	5.5
LBP004	CA62531	17000	1.7

ANALYSIS METHOD: EPA SW846 7000B

CLIENT ID	CEI LAB ID	PPM ($\mu\text{g/g}$)	CONCENTRATION % BY WEIGHT
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Reviewed By:



Tianbao Bai, Ph.D.
Laboratory Director

This method has been validated for sample weights of 0.020g or greater. When samples with a weight of less than that are analyzed those results fall outside of the scope of accreditations.

*** The analysis of composite wipe samples as a single samples is not included under AIHA accreditation.**

Minimum reporting limit is 10 μg total lead. Sample results denoted with a "less than" (<) sign contain less than 10.0 μg total lead, based on a 40ml sample volume.

Lead samples are not analyzed by CEI Labs Lead samples are submitted to an AIHA ELLAP accredited laboratory for lead analysis of soil, dust, paint, and TCLP samples.

Laboratory results represent the analysis of samples as submitted by the client. Information regarding sample location, description, area, volume, etc., was provided by the client. Unless notified in writing to return samples, CEI Labs discards client samples after 30 days. This report shall not be reproduced, except in full, without the written consent of CEI Labs.

**REGULATORY
LIMITS**

OSHA Standard: No safe limit.
Consumer Products Safety Standard: Greater than 0.06% lead by weight.
Federal Lead Standard / HUD: 0.5% lead by weight.

LEGEND

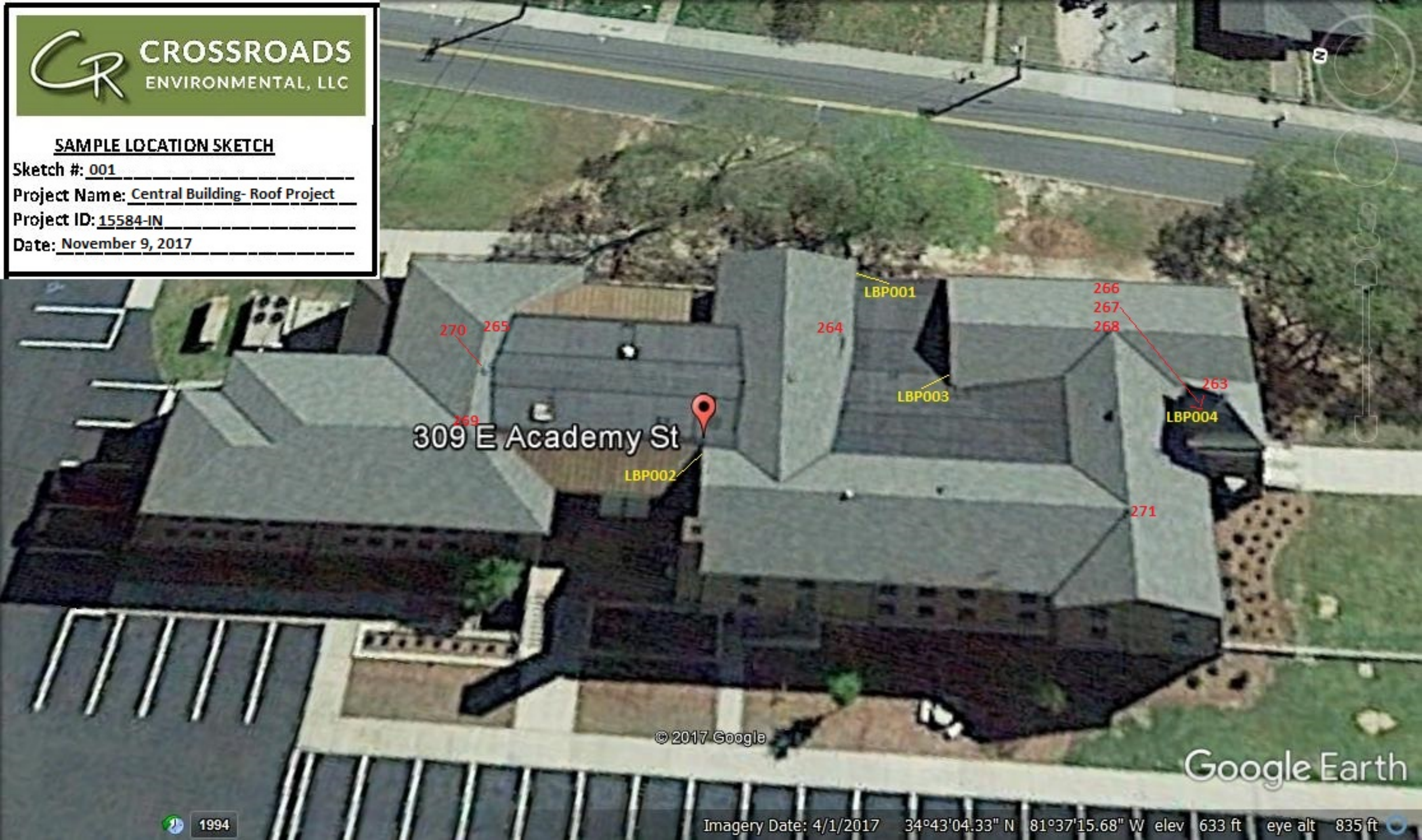
μg = microgram
ml = milliliter
ppm = parts per million
Pb = lead
g = grams
wt = weight

End of Report

ATTACHMENT III
SAMPLE LOCATION SKETCH AND/OR PHOTOS

SAMPLE LOCATION SKETCH

Sketch #: 001
Project Name: Central Building- Roof Project
Project ID: 15584-IN
Date: November 9, 2017



309 E Academy St

LBP002

LBP001

LBP003

LBP004

270 265

264

266
267
268

263

271

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Google Earth

**ATTACHMENT IV
ACCREDITATION(S)**

SCDHEC ISSUED

Asbestos ID Card

Dustin Henderson



		Expiration Date
AIRSAMPLER	AS-00479	01/30/18
CONSULTBI	BI-01510	02/14/18

SCDHEC ISSUED

Asbestos ID Card

Evans Harris



CONSULTBI

BI-01224

Expiration Date:

10/02/18

CONSULTPD

PD-00149

12/19/17

AIRSAMPLER

AS-00383

10/03/18