

December 18, 2018

Limited Asbestos Survey For



BC Grammar School #1

Prepared for: Lexington County School District 2 Phone: (803) 822-5667

Attn: Bill McPherson 1631 Walterboro Street West Columbia, SC 29170

Prepared by: ABS Environmental, Inc. Phone: (803) 345-3833

1416 Chapin Road Chapin, SC 29036 ABS Job 6150.18009

Inspection Performed by:

Matthew Fore

SCDHEC # Lic Exp Date
BI – 00579

8/1/19

Mattnew Fore B1 – 005/9 8/1/19

Report Prepared by:

Matthew Fore

SCDHEC # Lic Exp Date
BI – 00579 8/1/19

Report Reviewed by:

SCDHEC # Lic Exp Date

Lee Capell MP – 00072 8/8/19

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1.0 EXECUTIVE SUMMARY

ABS Environmental, Inc. (ABS) was retained by Lexington County School District 2 to perform a limited asbestos survey at BC Grammar School #1 located at 114 Hook Avenue in West Columbia, SC. The primary objective of this survey was to identify, sample and physically assess asbestos-containing building materials (ACBM) associated with the floor tile in the Cafeteria, Main Office and Classrooms 10-22.

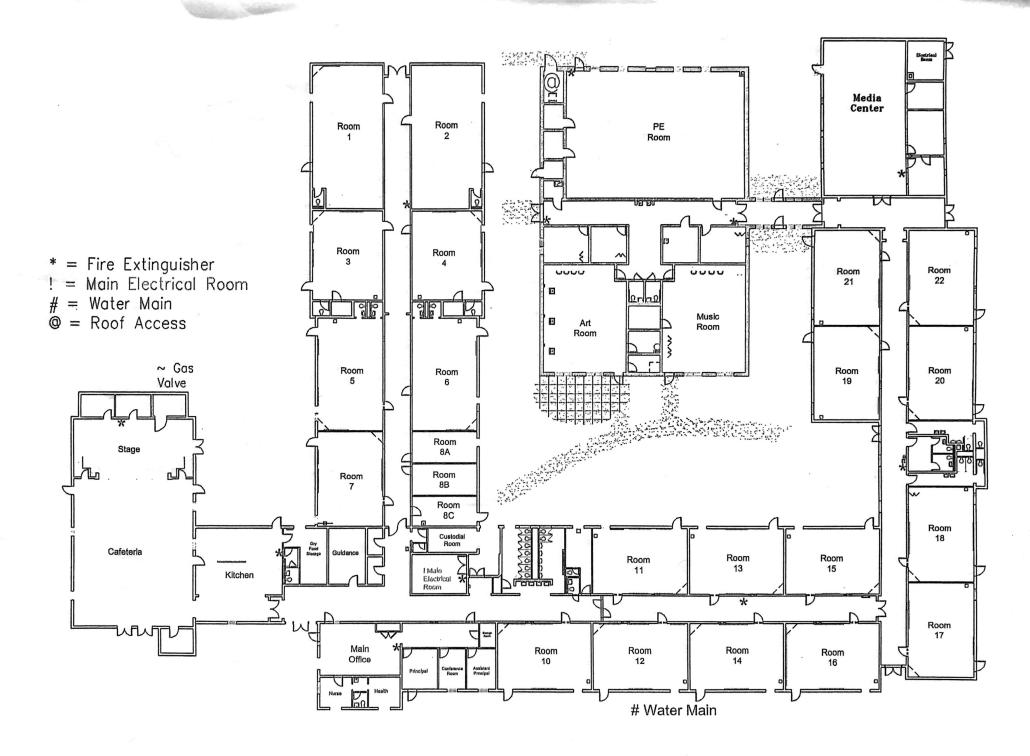
Six (6) suspect materials were identified, sampled and analyzed for the presence of asbestos. Samples were delivered by overnight courier service to EMSL Analytical, Inc. for analysis using Polarized Light Microscopy (PLM). As indicated by laboratory analysis, the suspect materials containing asbestos > 1% include approximately 13,384 ft² of bottom layer floor tile and mastic.

All layers of vinyl flooring located above the bottom layer floor tile and mastic are assumed to contain asbestos > 1%.

Limitations

This survey and report have been executed at the request of Mr. Bill McPherson and Lexington County School Two and are intended solely for their use. All work related to this project has been conducted in keeping with accepted standards of environmental consulting as practiced in the State of South Carolina. No unnecessary destructive measures were undertaken during this survey. Additional suspect and/or asbestos containing materials may be present. If at any time during the course of renovation or demolition a suspect material is observed that is not identified in this report, stop work immediately until the material can be sampled and analyzed for the presence of asbestos. *ABS* has relied, in part, on information derived from secondary sources, and except as set forth herein, *ABS* has made no independent investigation as to the accuracy or completeness of the information derived from such secondary sources. No warranty is expressed or implied.

DRAWING



Lexington County School District Two
"BC Grammar School #1"

SITE MAP



TABLES

Table #1 Asbestos Containing Building Material (ACBM)

Project Name: BC Grammar School #1

Project Address: 114 Hook Ave., West Columbia, SC Date: 18-Dec-18

* Assumed to Contain Asbestos > 1%

Observed ACBM						
Material	EPA AHERA Category	Quantity				
12" Top Layer Floor Tile* & Mastic*	Miscellaneous	13,384 ft ²				
12" Middle Layer Floor Tile* & Mastic*	Miscellaneous	13,384 ft ²				
9" Bottom Layer Floor Tile & Mastic	Miscellaneous	13,384 ft ²				

Table #2 Non-Friable ACBM

Project Name: BC Grammar School #1

Project Address: 114 Hook Ave., West Columbia, SC Date: 18-Dec-18

^{*} Assumed to Contain Asbestos > 1%

Non-Friable ACBM					
Material	Quantity				
12" Top Layer Floor Tile* & Mastic*	13,384 ft ²				
12" Middle Layer Floor Tile* & Mastic*	13,384 ft ²				
9" Bottom Layer Floor Tile/Mastic	13,384 ft ²				

Table #3 Asbestos - Suspect Material Data Sheet

Project Name: BC Grammar School #1

Project Address: 114 Hook Ave., West Columbia, SC Date: 18-Dec-18

Asbestos Finding; Asbestos Containing Material (ACM) contains > 1% asbestos by definition

P = Positive via PLM

N = Negative: does not meet definition of ACM

PTP = Previously tested Positive

P = Positive via TEM

A = Assumed to be ACM; no samples collected

PTN = Previously tested Negative

Present Condition

F = Friable NF= Non Friable D = Damaged (Damage less than 10 distributed and less than 25 % localized)

G = Good (Very localized damage) SD = Significantly Damaged (Damage equal to or greater than 10 % distributed/ 25 % localized)

Potential for Future Disturbance by Contact, Vibration or Air Erosion Mechanisms

LPD = Low Potential for Disturbance (All Three Mechanisms of Low Concern)

PSD = Potential for Significant Damage (One Mechanism

PD = Potential for Damage (Any One Mechanism of Moderate Concern) of High Concern or More Than One of Moderate Concern)

EPA AHERA Asbestos Category T = Thermal System Insulation (Inhibits heat transfer or prohibits condensation)

S = Surfacing Material (Spray-applied or trowel applied) M = Miscellaneous Materials (Refer to as "Other" materials by OSHA)

Hazard Ranking = 7 thru 1; (7 being the worst i.e. significantly damaged material)

Suspect	Material	Category	#	Quantity	Present	Disturbance	P or N	P or N	P or N	Hazard
Material #	Description	(S, T, M)	Samples	Quantity	Condition	Potential	PLM	TEM	Point Count	Ranking
HM-01	Vinyl Floor Tile	М	3	13,384 ft ²	NF/G	PD	Α			2
HM-02	Mastic below HM-01	М	3	13,384 ft ²	NF/G	LPD	Α			1
HM-03	Vinyl Floor Tile	М	3	13,384 ft ²	NF/G	LPD	Α			1
HM-04	Mastic below HM-03	М	3	13,384 ft ²	NF/G	LPD	Α			1
HM-05	Vinyl Floor Tile	М	3	13,384 ft ²	NF/G	LPD	Р			1
HM-06	Mastic below HM-03	М	3	13,384 ft ²	NF/G	LPD	Р			1

Table #4
Asbestos - Bulk Sample Data Sheet

Project Name: BC Grammar School #1

Project Address: 114 Hook Ave., West Columbia, SC **Date:** 18-Dec-18

Positive; meets definition of Asbestos Containing Material (ACM) (i.e.>1%asbestos) via PLM

Positive; meets definition of Asbestos Containing Material (ACM) (i.e.>1%asbestos) via TEM

Assumed to contain Asbestos > 1%

* Chry = Chrysotile Amos = Amosite Croc = Crocidolite Anth = Anthophylite NAD = No Asbestos Detected DNA = Did Not Analyze

Laboratory	ABS	Suspect	Material	Location	Type *	Percent	Percent	Percent		
Sample #	Sample #	Material #	Description	Location	Asbestos	PLM	TEM	Point Count		
021808618-0001	BC-01		Vinyl Floor Tile/Mastic	Cafeteria		DNA				
021808618-0002	BC-02	HM-01/02	(Top Layer)	Room 10		DNA				
	BC-03		(TOP Layer)	Room 13		DNA				
021808618-0003	BC-04			Vinyl Floor Tile/Mastic	Cafeteria		DNA			
021808618-0004	BC-05	HM-03/04	03/04 (Middle Layer)	Room 10		DNA				
	BC-06			Room 13		DNA				
021808618-0005	BC-07		Vinyl Floor Tile	Cafeteria	Chry	10%				
021808618-0006	BC-08	HM-05	HM-05	HM-05	(Bottom Layer)	Room 10	Chry	10%		
	BC-09		(Bottom Layer)	Room 13		DNA				
021808618-0005A	BC-07			Cafeteria	Chry	8%				
021808618-0006A	BC-08	HM-06	Mastic below HM-03	Room 10	Chry	8%				
	BC-09			Room 13		DNA				

LABORATORY RESULTS



EMSL Order: 021808618 Customer ID: ESE52

Customer PO: Project ID:

Attention: Matthew Fore Phone: (803) 345-3833

ABS Environmental Fax: (803) 345-2823

1416 Chapin Road Received Date: 11/16/2018 10:45 AM

Chapin, SC 29036 Analysis Date: 11/17/2018 - 11/19/2018

Collected Date: 11/15/2018

Project: BC Grammar

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbe	<u>stos</u>	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
BC-01	12" Top Layer Floor Tile/Mastic				Positive Stop (Not Analyzed)
021808618-0001					
BC-02	12" Top Layer Floor Tile/Mastic				Positive Stop (Not Analyzed)
021808618-0002					
BC-04	12" Middle Layer Floor Tile/Mastic				Positive Stop (Not Analyzed)
021808618-0003					
BC-05	12" Middle Layer Floor Tile/Mastic				Positive Stop (Not Analyzed)
021808618-0004					
BC-07-Floor Tile	9" Bottom Layer Floor Tile/Mastic	Brown/Tan Non-Fibrous		15% Quartz 75% Non-fibrous (Other)	10% Chrysotile
021808618-0005		Homogeneous			
BC-07-Mastic	9" Bottom Layer Floor Tile/Mastic	Black Non-Fibrous		92% Non-fibrous (Other)	8% Chrysotile
021808618-0005A		Homogeneous			
BC-08-Floor Tile	9" Bottom Layer Floor Tile/Mastic	Tan Fibrous		15% Quartz 75% Non-fibrous (Other)	10% Chrysotile
021808618-0006		Homogeneous		(,	
BC-08-Mastic	9" Bottom Layer Floor Tile/Mastic	Black Fibrous	<1% Cellulose	92% Non-fibrous (Other)	8% Chrysotile
021808618-0006A		Homogeneous			

Ana	lyst	(s)

Nicole Shutts (2)

Scott Combs (2)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from: 11/19/2018 08:11:12

OrderID: 021808618



Asbestos Chain of Custody	
EMSL Order Number (Lab Use Only):	

/):

EMSL ANALYTICAL, INC. 706 GRALIN STREET KERNERSVILLE, NC 27284

> PHONE: 336-992-1025 FAX: 336-992-4175

Company : ABS Environmental, Inc.				ISL-Bill to: Sal					
Street: 1416 Chapin Road			If Bill to is Different note instructions in Comments**						
			Third Party Billing requires written authorization from third party						
			Zip/Postal Code: 29036 Country:						
Report To (Name): Matthew Fore			Fax #: (803) 345-						
Telephone #: (803) 345-3833	Email Address:	mfore@absenv.c	om						
	unmar								
Please Provide Results:		Purchase Orde		U.S. State Sam	ples Taken	1:			
□ 3 Hours □ 6 Hours □ 1	4 Hrs	48 Hrs	Options* - Please 3 Days	4 Days	5 Days	☐ 10 Days			
*For TEM Air 3 hours/6 hours, please call ah	ead to schedule	.*There is a premi	um charge for 3 Hour TE	M AHERA or EPA Lev	el II TAT. Yo	u will be asked to sign			
an authorization form for this service.			ce with EMSL's Terms an		n the Analytic	al Price Guide.			
PCM - Air NIOSH 7400	-	M - Air AHERA 40 CF	D Part 763	TEM- Dust ☐ Microvae	A MT2A	5755			
□ w/ OSHA 8hr. TWA		NIOSH 7402	N, Fall 703	☐ Wipe - A	795				
PLM - Bulk (reporting limit)	——	EPA Level II				EPA 600/J-93/167)			
PLM EPA 600/R-93/116 (<1%)		ISO 10312		Soil/Rock/					
☐ PLM EPA NOB (<1%)	TE	M Bulk				(0.25% sensitivity)			
Point Count		TEM EPA NOE				(0.1% sensitivity)			
☐ 400 (<0.25%) ☐ 1000 (<0.1%)	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner,		4 (non-friable-NY)			(0.1% sensitivity)			
Point Count w/Gravimetric		Chatfield SOP	4 (non mable 141)	The second second second		(0.01% sensitivity)			
☐ 400 (<0.25%) ☐ 1000 (<0.1%)	The state of the s		alysis-EPA 600 sec. 2	THE RESERVE TO SERVE THE PARTY OF THE PARTY	☐ EPA Protocol (Semi-Quantitative)				
☐ NYS 198.1 (friable in NY)		M - Water: EP			☐ EPA Protocol (Quantitative)				
☐ NYS 198.6 NOB (non-friable-NY)	Control of the last	Fibers >10µm Waste Drinking			Other:				
☐ NIOSH 9002 (<1%)			Waste Drinking						
			early Identify Hom		p				
		MINS.		不过他们的	China				
Samplers Name: Lee Capell			Samplers Signatu						
Sample #	Sam	ple Descriptio	n	Volume/Ar HA # (B		Date/Time Sampled			
20/11 12 11 1	- 1	71	- lun						
BC/01-03 12" 16	p layer	1 F100V	TILE WILLSTIL						
04-06 12" W	valle Le	yer Flor	or Tile / Mash	6					
07 39 9" R	16. 1	Elan	v Tile / Mast	h'a					
O POT L PA	m c	nyer 100	VILLE / MAST	10					
			E .						
		9							
Client Sample # (s): BC- 0	1		BC. 09	Total # of Sa	mples:	9			
Relinquished (Client): 1/1/ R Date: 11/					Time:	1730			
Received (Lab):		Date:	11/15/18		Time:	10145			
Comments/Special Instructions:									
Analyze Samples	7-9	First. II	Positive,	lo not	analys	ee l			
1 2 solely 17			COM	ple 1-1					
Controlled Document – Asbestos COC – R1 – 3/18/2009	Page	1 of pag	Controlled Document - Asbestos COC - R1 - 3/18/2009 Page 1 of pages						

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