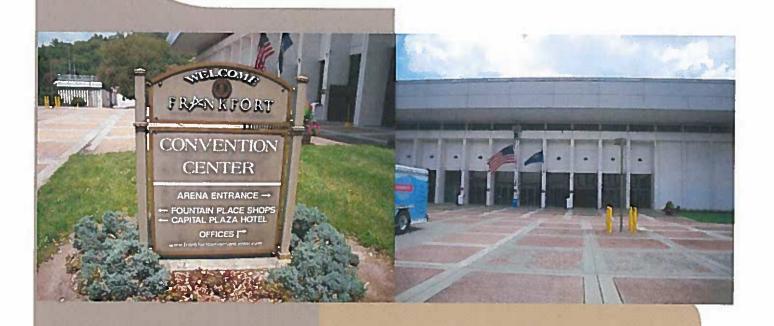
Amendment #5 CAPITAL PLAZA AREA REDEVELOPMENT REQUEST FOR PROPOSALS (RFP)

Attached please find "Limited Asbestos Containing Materials Inspection" report, dated July 17, 2017, and completed by Lee Engineering, LLC, for the Frankfort Convention Center.

END OF AMENDMENT #5

Limited Asbestos Containing Materials Inspection

Frankfort Convention Center 405 Mero Street Frankfort, Kentucky 40601



Prepared for:

Kentucky Finance & Administration Cabinet Division of Engineering & Contract Administration 403 Wapping Street Frankfort, Kentucky 40601 Prepared by:

Lee Engineering, LLC

Environment & Infrastructure

P.O. Box 500 Lawrenceburg, KY 40342 (502) 600-0016 jlleeeng@bellsouth.net

July 17, 2017

Lee Engineering, LLC

Environment & Infrastructure

July 17, 2017

Maziar Torabi, P.E. KY Finance and Administration Cabinet Division of Engineering 403 Wapping Street Frankfort, KY 40601

RE: Limited Asbestos Inspection

Frankfort Convention Center

405 Mero Street

Frankfort, Kentucky 40601

Dear Mr. Torabi:

Lee Engineering has completed the authorized limited asbestos inspection of the Frankfort Convention Center, 405 Mero Street, Frankfort Kentucky. We completed a reconnaissance of the structure on July 11, 2017 and returned for field sampling July 12, 2017. The objective of the inspection was to identify asbestos containing materials (ACM) in concentrations greater than 1% that would require removal prior to demolition.

The structure was built for use as an arena and convention center in the late 1960's seating about 5,000 people. The structural backbone is a poured concrete elliptical bowl with the interior slopes of the bowl fitted with seating. The structure has a square exterior foot print with the long axis of the bowl running roughly East to West with the front of the structure on the West end and the back of the structure on the East end. The structure is symmetrically-shaped along both the South to North and East to West axis. The structure is located as shown in the attached Figure 1.

The space under the arena bowl is used for storage of tables and chairs and related items. Two corridors run the length of the structure on the East and West sides. Here various administrative and custodial offices, locker rooms, mechanical rooms, restrooms, concessions, a kitchen, and ticket booths are located. The attached Figure 2 shows the floor plan of the ground floor along with the sampling locations numbered 1 through 36.

Our sampling strategy was to take advantage of the structure's symmetry to minimize the number of samples needed to characterize the ACM content. For example there are four mechanical rooms with a room located in each quadrant of the structure. Each mechanical room is equipped in much the same manner as the other three and appears to be constructed of the same materials. Therefore, only two of the mechanical rooms were sampled assuming that the other two mechanical rooms are equipped using the same characteristic materials. Similarly, floor tile, ceiling tile, base board mastic and so forth were sampled in areas constructed at the same time and from the same materials as in other locations not sampled.

A total of 36 locations were sampled and sent to an independent laboratory for analysis. Sampling was conducted in general accordance with *Guidance for Controlling Asbestos Containing Materials in Buildings*, EPA 560/5-85-024. Bulk samples were collected and analyzed with polarized light microscopy (PLM) with dispersion staining and/or point counted when required. The complete analytical results including the chain of custody are attached. Also attached are photographs taken during the inspection for each sample to help with identification.

P.O. Box 500 Lawrenceburg, Kentucky

Lee Engineering, LLC

Environment & Infrastructure

Based on the attached results there were no ACM greater than 1% discovered that require abatement prior to demolition activities.

However, this ACM Inspection is limited due to tight time constraints and because the building is still in daily use. The following limitations should be considered.

- Piping runs in the ceiling and walls were sampled at only at a few select locations where a removable panel or door allowed access. Most of the interior walls are thick poured concrete nearly impossible to penetrate with ordinary hand tools. However, piping that was observable appeared to be insulated with fiberglass and wrapped with a non-ACM material. Piping elbows and valves that we could access are insulted with a powdery white material that appeared to be ACM but were found not to be during analysis (see samples 5, 6, 18, 21).
- The roof was not sampled because a destructive coring technique would be required and because the roof was reported to have been replaced 10 years ago. It is unknown if the old roof was removed or left in place under the new roof.
- The utility tunnel that is accessible in the Southwest Mechanical Room was not entered because it
 is a confined space and we were not prepared to make entry with the tight time constraints.
 However, the piping that could be observed through the metal grating over the tunnel appeared to
 be covered with the same characteristic wrapping as piping that we could access for sampling
 outside the tunnel.
- No samples were collected from the exterior of the structure due to the time constraints of
 mobilizing a "cherry picker" with a reach of 50-feet or more. The exterior soffit in particular
 could possibly be constructed of ACM transite panels based on prior experience. Also, the
 windows located above the soffit could possibly be sealed with an ACM sealant that would be
 difficult to access without the use of specialized equipment.
- Unless otherwise determined it should be assumed that all fire-rated doors have friable asbestos cores. We did not sample the doors as that would have created dust in an occupied building.

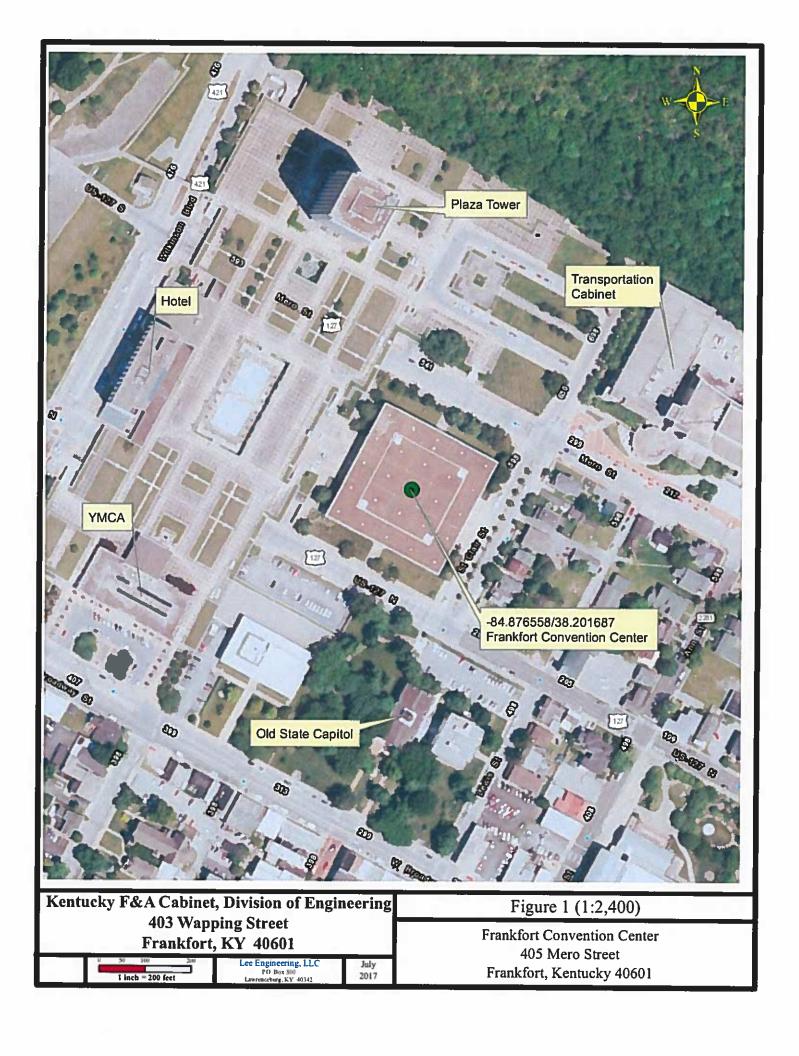
Generally, during demolition close attention should be made to identify "hidden" ACM that was not readily discoverable during this limited asbestos inspection.

Please call me at (502) 600-0016 if you have any questions or comments.

Sincerely,

Jeffrey L. Lee, P.E.

Jollar L. L



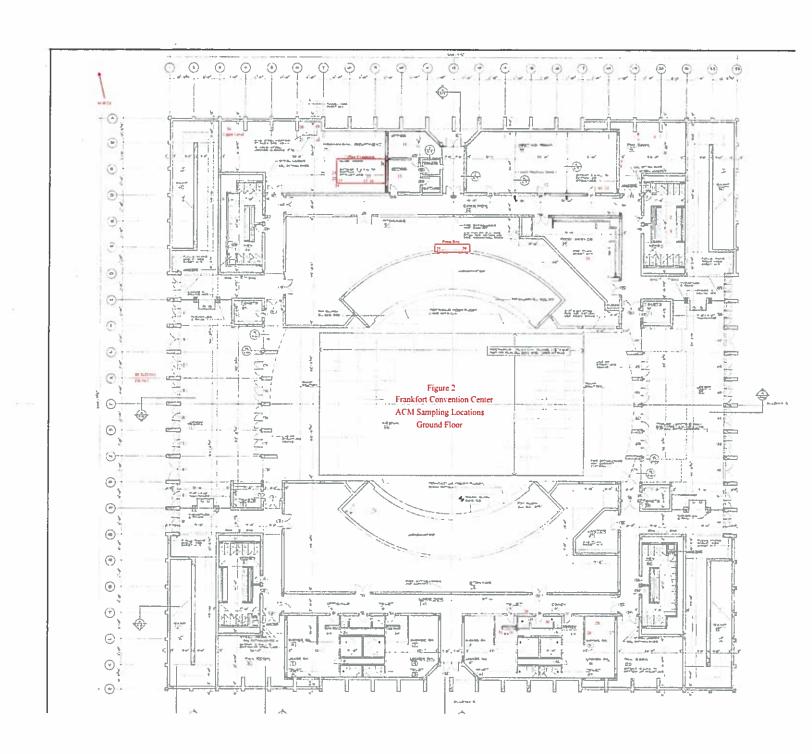






Photo 2 - Pipe Wrap



Photo 3 - Drop Ceiling Tile



Photo 4 - Pipe Wrap



Photo 5 - Elbow Insulation Green



Photo 6 - Elbow Insulation Yellow



Photo 7 - Pipe Wrap Green



Photo 8 - Pipe Wrap Yellow





Photo 10 - Carpet Adhesive



Photo 11 - Drop Ceiling Tile



Photo 12 - Drop Ceiling Tile



Photo 13 - Drop Ceiling Tile



Photo 14 - Drop Ceiling Tile



Photo 15 - Adhesive for Ceiling Tile



Photo 16 - 1 x 1 Ceiling Tile



Photo 17 - Drywall Under Ceiling Tile



Photo 18 - Elbow Insulation Green



Photo 19 - Pipe Wrap Green



Photo 20 - Pipe Wrap Yellow



Photo 21- Elbow Insulation Yellow



Photo 22 - Baseboard Adhesive



Photo 23 - Drywall

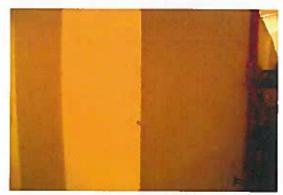


Photo 24 - Drywall Mud



Photo 25 - Baseboard Adhesive



Photo 26 - Floor Tile 12 x 12



Photo 27 - Floor Tile 12 x 12

Photo Not Available



Photo 29 - Baseboard Mastic

Photo 28 - Drop Ceiling Tile



Photo 30 - Floor Tile 12 x 12



Photo 31 - Pipe Wrap

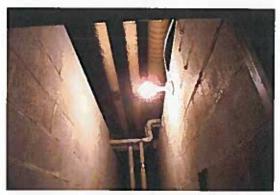


Photo 32 - Pipe Wrap



Photo 33 - Drop Ceiling Tile



Photo 34 - Access to Ceiling/Ductwork Coating



Photo 35 - Ceiling Coating



Photo 36 - Acostical Board

Point Count 10% or less

Asbestos Inspection Form and Chain of Custody

Project:	Conv. Center	Lee Engineering, 11c
Date:	7-12-2017	P.O Box 500
Address:		Lawrenceburg, Kentucky 40341
Sampled By:	Jeff Lee	Ph (502) 600-0016

mple ID	Location	Matrix	Color	Size	Comments
1	Maint Supe	carpet Glue	Brown		derk carnet on conc.
2	N & Wayyes	m bere	white		multi layer
3	N. E Commen	ceiling-dry	white		2 layer
4	b sthroum Jank	PIPE	white		layer over fibershas
5	NE fan	e16000	scen		
6	N.E. FAN	albow T.S.I.	yellow		
7	N. E. FAN	Wing	green		
8	N. E FAN	PIRWIND	The state of the s		
9	NE FAN	PIPE WAYS	yellow		
0	green River	carpetalue			brown-Blue carpet
11	gran River	drop calling	white		
12	River Comf. Rus	drug Carling	white		
13	Office olec Director	drup Ceiling	white		
14	BACK OFFICE	drup Cecliny	gray-white		
15	Client Services	glued on Hiles	w white		
16	Cheur Savuces of Give	I fort di fort			
17	Office Client serv	drywell	white		beneath glue on tile
18	N.W. Room	CIDUWTS.I	græn		
19	Mech Room	Wrap	green		16
20	N. W.	PIREWAR	Yellow		
21	Mah Rum	albuy.	Vellow		
22	Client Service	NINY I MASE bond	ZNAV		S. XVERTED D.C.
23	Client Some	Prywall	white		
24	N.W: Mech Room	Drywall	white		
	Relenquished By: Sig	nature	Received By: Si	gnature	Date & time

Point court 10% or less

Asbestos Inspection Form and Chain of Custody

Project: Conven Center	Lee Engineering, llc
Date: 7-12-2017	P.O Box 500
Address:	Lawrenceburg, Kentucky 40341
Sampled By: Jeff Lee	Ph (502) 600-0016

Sample ID	Location	Matrix	Color	Size	Comments
25	N.W. Mach Roum	Viny basebox	black		
	S.E. Room				PIPE WIMP other mach Ro
26	Locker Rom	+ MASTIC	gray	- 6100	12x12 tile
27	H M	LIGHT & RAY	the more		12×12 +1/c
28	14 7	11-	white		
29	Viny I Bishon	+ matic	black		In front of Locker Roum 2
30	Hy Room	floor tile			The second secon
31	#1	PIPE WIAP	white	*****	
32	Locker Room #1	PIPELWAP	silver		
32	Kitchen	drop Ceilm	white		
34	N. W top conscisum sta	Ceiling	black pounder		Concession Stand in top N.W. Confer
35	celliny	Selling	plack		upper level NW
36	celling	Selling aconting Heavine	black Vellow		upper fever mus
	\				
_				- -	
				Liste	
	lenquished By: Sign		Received By: Sig	nature	Date & time



MRS, Inc. Analytical Laboratory Division

332 West Broadway / Suite # 902 Louisville, Kentucky - 40202 - 2133

(502) 495-1212 Fax: (502) 491-7111

BULK SAMPLE ASBESTOS ANALYSIS

Analysis N#	# 07138	Address:	Convention Center
Client Name:	State Of Kentucky		Frankfort, KY
Sampled By:	Jeff Lee		
A - C = Lavers # 1	- 3		

			% FIBROUS ASBESTOS			% NON-ASBESTOS FIBERS					
Sample ID	Color	Layered	Fibrous	Chrysotile	Amosite	crocidolite	Others	Cellulose	Fiberglass	Syn. Fiber	Other/Mat
#1	Brown	Yes	No]	None	3%		·	97%
#2A	White	Yes	Yes				None	65%			35%
#2B	Black	Yes	Yes				None	55%			45%
# 2 C	Yellow	Yes	Yes				None		99%		1%
#3A	White	Yes	Yes				None	55%	40%		5%
#3B	White	Yes	Yes				None	52%	43%	-	5%
# 4	White	Yes	Yes				None	97%			3%
# 5	Green	Yes	Yes				None	35%	30%		35%
# 6	Yellow	Yes	Yes				None		95%		5%
#7	Green	Yes	Yes				None		97%		3%
# 8	Yellow	Yes	Yes				None		94%		6%
# 9	Yellow	Yes	Yes				None	85%			15%
# 10	Yellow	Yes	No				None	2%			98%
# 11	White	Yes	Yes				None	57%	40%		3%
# 12	White	Yes	Yes				None	2%	90%		8%
# 13	White	Yes	Yes				None	55%	40%		5%
# 14	Gray	Yes	Yes				None		93%	· <u> </u>	7%
# 15	Brown	Yes	No	2%	(To Be	Point Cou	inted)	2%			96%
# 16	White	Yes	Yes				None	52%	40%		8%
# 17	White	Yes	Yes				None	35%			65%

Methodology : Ef	PA Method 600/R-93-116	Page # 1
Date Analyzed :	13-Jul-17	-
Analyst :	Winterford Mensah	Reviewed By: Timeson Mirror
		Signature

The test relates only to the Items tested. This report does not represent endorsement by NVLAP or any agency of the U.S Government. Partial Reproduction of any part of this report is strictly prohibited. Samples shall be retained for (30) days.

AJHA # 102459



MRS, Inc. Analytical Laboratory Division

332 West Broadway / Suite # 902 Louisville, Kentucky - 40202 - 2133

(502) 495-1212 Fax: (502) 491-7111

BULK SAMPLE ASBESTOS ANALYSIS

Analysis N#	# 07138	Address:	Convention Center
Client Name:	State Of Kentucky		Frankfort, KY
Sampled By:	Jeff Lee		
A - C = Layers # 1	- 3	T = Floor	Tile / M = Mastic Under The Tile

				%	FIBROUS	ASBESTOS) Y () ()	% N	ON-ASBES	TOS FIBE	₹S
Sample ID	Color	Layered	Fibrous	Chrysotile	Amosite	crocidolite	Others	Cellulose	Fiberglass	Syn. Fiber	Other/Mat.
# 18	Green	Yes	Yes				None	33%	30%		37%
# 19	Yellow	Yes	Yes				None	3%	95%		2%
# 20	Yellow	Yes	Yes				None		99%		1%
# 21	Yellow	Yes	Yes				None		97%		3%
# 22	Gray	Yes	No				None	8%			92%
# 23	White	Yes	Yes				None	33%			67%
# 24	White	Yes	Yes				None	35%			65%
# 25	Black	Yes	No				None	3%			97%
# 26 T	Gray	Yes	No				None	5%			95%
# 26 M	Tan	Yes	No				None	2%			98%
# 27 T	Gray	Yes	No				None	3%			97%
# 27 M	Tan	Yes	No				None	3%			97%
# 28	White	Yes	Yes				None	55%	40%		5%
# 29 A	Black	Yes	No				None	2%			98%
# 29 B	Yellow	Yes	No				None	3%			97%
# 30	Gray	Yes	No				None	5%			95%
# 31	White	Yes	Yes				None	3%	95%		2%
# 32	Silver	Yes	No				None	15%			85%
# 33	White	Yes	Yes				None	53%	40%		7%
# 34	Black	Yes	No	2%	(To Be	Point Cou	inted)	2%			96%

Methodology: EP/	A Method 600/R-93-116	Page # 2	
Date Analyzed :	13-Jul-17		
Analyst :	Winterford Mensah	Reviewed By: New Terral	

The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S Government. Partial Reproduction of any part of this report is strictly prohibited. Samples shall be retained for (30) days.

AJHA # 102459



MRS, Inc. Analytical Laboratory Division

332 West Broadway / Suite # 902 Louisville, Kentucky - 40202 - 2133

(502) 495-1212 Fax: (502) 491-7111

BULK SAMPLE ASBESTOS ANALYSIS

Wilalanai	۱π	# 07130			_	_ Address:	Convent	iori Centei	_		
Client Na	me:	State Of	Kentucky	/		-	Frankfor	t, KY		· · · · · ·	•
Sampled	Ву:	Jeff Lee				•					-
A - C = L	ayers#1	- 3				T = Floor	Tile / M =	Mastic U	nder The 1	Γile	•
				%	FIBROUS	ASBESTOS			ON-ASBES		RS
Sample ID	Color	Layered	Fibrous	Chrysotile	Amosite	crocidolite	Others	Cellulose	Fiberglass	Syn. Fiber	Other/Mat.
# 35	Black	Yes	No	2%	(To Be	Point Cou	inted)	2%			96%
# 36 A	Black	Yes	No	2%	(To Be	Point Cou	ınted)	2%		- -	96%
# 36 B	Yellow	Yes	Yes				None		98%		2%
			ļ							-	
			_								
_											
_											
					· ·						
	<u></u>							1			
Methodol	ogy : EPA f	Method 60	0/R-93-11	.6			Page # 3				
Date Analy	yzed :	13-Jul-17	·								
Analyst	:	Winterfo	rd Mensa	h		Revie	wed By:	Him	Dec /	Elean !	
								Signeture			

The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S Government. Partial Reproduction of any part of this report is strictly prohibited. Samples shall be retained for (30) days.

AJHA # 102459 AJHA #1 02459

MRS, Inc. Analytical Laboratory Division

332 West Broadway / Suite # 902 Louisville, Kentucky - 40202 - 2133

Phone #: (502) 495-1212

E-Mail Address: CEOMRSInc@AOL.Com

Client:	State Of Kentucky	Project No:	# 07138
Address:	Division Of Engineering &	Sample ID:	#16
	Contract Administration	Sampled:	13-Jul-17
	403 Wapping Street	Received:	13-Jul-17
	Frankfort, KY - 40601	Analyzed:	14-Jul-17 - Point Count -
	Attention : Maziar Torabo		

Bulk Sample Analysis					
Sampled By :	Jeff Lee - Lee Engineering, LLC				
Facility/Location:	Convention Center, Frankfort, KY				
Field Description:	Adhesive / Gl	Adhesive / Glue On Ceiling Tile - Client Service Office			
Laboratory Description	n:		<u>. </u>		
	Brown Materi	ial			
Asbestos Materials:					
	Chrysotile = 1	/400 = 0.25 % (<	1 %) Samp	le Is Negative	
Non-Asbestos Fibrous	Materials :				
	Cellulose	0.25 %			
	Binders	99.50 %			
			**		
				ing the EPA Methodology	
				sted. This report does not	
represent (endorsement b	y NVLAP or any a	agency of th	he U.S. Government.	
Amalianta 1821 A					
Analyst: Wint	erford Mensah	Revi	ewed By:	Tintoger Mercel	

MRS, Inc. Analytical Laboratory Division

332 West Broadway / Suite # 902 Louisville, Kentucky - 40202 - 2133

Phone #: (502) 495-1212

E-Mail Address: CEOMRSInc@AOL.Com

Client:	State Of Kentucky	Project No:	# 07138
Address:	Division Of Engineering &	Sample ID:	# 34
	Contract Administration	Sampled:	13-Jul-17
	403 Wapping Street	Received:	13-Jul-17
	Frankfort, KY - 40601	Analyzed:	14-Jul-17 - Point Count -
	Attention : Maziar Torabo	_	

		Bulk Sample	2 Analysis		
	5.			er e-da	
Sampled By :	Jeff Lee - Lee I	Engineering,	LLC		
Facility/Location:	Convention Co	Convention Center, Frankfort, KY			
Field Description:	Concession Stand - Black Powder On Ceiling - NW Corner				
Laboratory Description	on:				
	Black Material				
					<u>-</u>
Asbestos Materials:	·	_			
	Chrysotile = 1/	400 = 0.25 %	i (< 1 %) Samp	ole Is Negative	e
	-	-	-		
Non-Asbestos Fibrou	s Materials :				
	Cellulose	0.25 %	i		
	Binders	99.50 %	- 		
	<u> </u>				
Remarks: The sample	e was analyzed	for asbestos	content follow	ing the EPA	Methodology
(600/R-93	/116). The test	relates only	to the items te	sted. This re	port does not
represent	endorsement b	y NVLAP or a	any agency of t	the U.S. Gove	rnment.
				27	
Analyst: Win	terford Mensah	· -	Reviewed By:	History	Constituents -
				Signature	All the second

MRS, Inc. Analytical Laboratory Division

332 West Broadway / Suite # 902 Louisville, Kentucky - 40202 - 2133

Phone #: (502) 495-1212

E-Mail Address: CEOMRSInc@AOL.Com

Client:	State Of Kentucky	Project No:	# 07138
Address:	Division Of Engineering &	Sample ID:	# 35
	Contract Administration	Sampled:	13-Jul-17
	403 Wapping Street	Received:	13-Jul-17
	Frankfort, KY - 40601	Analyzed:	14-Jul-17 - Point Count -
	Attention : Maziar Torabo		

	Bu	ılk Sample Analysis		
Sampled By :	Jeff Lee - Lee Eng	ineering, LLC		
Facility/Location:	Convention Center, Frankfort, KY			
Field Description:	Ceiling Coating - I	Ceiling Coating - Black - Upper Level -NW		
Laboratory Descripti		<u> </u>		
•	Black Powdery Ma	aterial		
				
Asbestos Materials:				
	Chrysotile = 1/400	0 = 0.25 % (< 1 %) Sample Is Negative		
Non-Asbestos Fibrou	ua Bilakovinska			
Non-Aspestos Fibrou		0.05.0		
	Cellulose	0.25 %		
	Binders	99.50 %		
(600/R-93	3/116). The test rela	asbestos content following the EPA Methodology ates only to the items tested. This report does not VLAP or any agency of the U.S. Government.		

MRS, Inc. Analytical Laboratory Division

332 West Broadway / Suite # 902

Phone #:

(502) 495-1212

Louisville, Kentucky - 40202 - 2133 E-Mail Address: CEOMRSInc@AOL.Com

Client: **State Of Kentucky Project No:** #07138 Address: Division Of Engineering & Sample ID: #36 A **Contract Administration** Sampled: 13-Jul-17 **403 Wapping Street** Received: 13-Jul-17 Frankfort, KY - 40601 Analyzed: 14-Jul-17 - Point Count -

Attention: Maziar Torabo

Bulk Sample Analysis				
Sampled By :	Jeff Lee - Lee Engineering, LLC			
Facility/Location:	Convention Center, Frankfort, KY			
Field Description:	Upper Level - NW - Black Layer On Ceiling Tile			
Laboratory Descriptio	n:	•		
	Black Powdery Mat	erial		
Asbestos Materials:				
	Chrysotile = 1/400 =	= 0.25 % (< 1 %) Sample	e Is Negative	
Non-Asbestos Fibrous	Materials :			
	Cellulose	0	0.25 %	
	Binders	99	9.50 %	
			ng the EPA Methodology	
			ted. This report does not	
represent	endorsement by NV	LAP or any agency of the	e U.S. Government.	
Amalian Mila	andanal security	D		
Analyst: Wint	erford Mensah	Reviewed By: _	Standard Standard	