

August 13, 2018

Ms. Carolyn Pajoum
Evansville Department of Metropolitan Development
Room 306 Civic Center Complex
1 NW Martin Luther King, Jr. Blvd.
Evansville, IN 47708-1869

RE: Asbestos Building Inspection for 813 E. Virginia St, Evansville, Indiana – Crane Project #118-2015

Dear Ms. Pajoum:

On August 1, 2018 Ellen Mullen of Crane Environmental Services, LLC conducted an Asbestos Building Inspection to determine if there was any Asbestos Containing Material (ACM) present at the subject property. The site is a one and a half story vacant house with a basement, finished attic, and a shed, which is scheduled to be demolished.

Great care was taken to account for all spaces within the building. Hidden spaces were evaluated by physical or visual inspection as reasonably accessible. Hidden spaces include inaccessible pipe chases, sub-walls behind exposed walls, layers of tile under carpet or other tile, roofing materials under impenetrable surfaces, inaccessible sections of the building, etc. All hidden layers accessible through minor alterations were observed and tested if suspected for ACM's. Some hidden areas were assumed to contain the same materials as accessible areas that were observed.

The building inspected is vacant and may be in disrepair and in some circumstances have inaccessible areas or areas that are dangerous to enter. These areas are viewed by the inspector the best way that he/she can and may have asbestos containing material that was not sampled or noted in the report. In addition, asbestos containing roofing material may be covered by other layers of roofing, leaves, or is not viewable because of the close proximity of the adjacent buildings. The notification form attached to this report has directions as to how to handle suspect asbestos containing material that is found during demolition. If additional asbestos containing material is discovered, it should be handled according to the instructions on the attached notification form. Crane will in turn issue a revised report to the owner.

Twelve bulk samples and one duplicate sample of suspect asbestos containing material were collected and sent to a laboratory for analysis. Two of the samples were Asbestos Containing Material (ACM) defined as any material which contains more than one percent (1%) asbestos. The laboratory results are attached, and summarized as follows:

1120 Star Gate Road

Evansville, IN 47725

Phone: (812) 868-0709 Fax: (812) 868-1232 E-mail: ces@crane-es.com

Sample #	Material	Location	% Asbestos
15-1-1	Hard Plaster Wall	Bedroom 1	ND
15-1-2	Hard Plaster Wall	Bedroom 2	ND
15-1-3	Hard Plaster Wall	Bedroom 3	ND
15-1-4	Hard Plaster Ceiling	Bedroom 1	ND
15-1-5	Hard Plaster Ceiling	Bedroom 2	ND
15-1-6	Hard Plaster Ceiling	Family Room	ND
15-1-7	Asphalt	Exterior	ND
15-1-8	Ceiling Tile	Bedroom 2	ND
15-1-9	Texture	Family Room	ND
15-1-10	Ceiling Tile	Living Room	ND
15-B-1	Duct Wrap	Basement	60 Chrysotile
15-B-2	Duct Tape	Basement	70 Chrysotile
15-Dup-1 (15-1-4)	Hard Plaster	Kitchen	ND

ND - Non-detect

There is Regulated Asbestos Containing Material (RACM), Category I, and Category II ACM located in the house as indicated in the table below. Regulated ACM 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 during demolition or renovation operations. All floor tile, sheet vinyl flooring, asphalt roofing products, and flashing present was presumed to be Category I non-friable Asbestos Containing Material (ACM). The quantities of RACM and Category I and Category II ACM are summarized in the table below.

		Column # 3 RACM To Be Removed		Column # 4		Column # 5	
Location	Material			Category I & II Non-Friable To Be Removed		Category I & II Non- Friable Not To Be Removed	
		SqFt	CuFt	SqFt	CuFt	SqFt	CuFt
Exterior	Asphalt Siding	0	0	0	0	1,120.0	35.0
Basement	Duct Wrap	204.2	2.1	0	0	0	0
Basement	Duct Tape	6.3	0.1	0	0	0	0
	Total	210.5	2.2	0	0	1,120.0	35.0

All quantities are approximations. Measurements were taken where permitted and estimated where measurement was not feasible.

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Evansville, IN 47725

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The RACM and Category I & II Non-Friable listed in the 3rd and 4th columns above need to be removed by an Indiana Licensed Abatement Contractor prior to demolition. The Non-Friable Category I & II ACM listed in the 5th column can remain on the substrate during demolition and disposed of in the landfill.

I have attached the laboratory results, the field inspection maps and notes, and the "Notification of Demolition and Renovation Operations" with instructions to submit to IDEM prior to demolition.

If you have any questions, please call at your convenience.

Sincerely,

Ellen Crane Mullen

Asbestos Building Inspector #194001096

Expiration Date 4/15/2019

Iller Crane Muller

Enclosures

Phone: (812) 868-0709 Fax: (812) 868-1232 E-mail: ces@crane-es.com

Indiana Department of Environmental Management GUIDANCE FOR PREPARING ASBESTOS DEMOLITION/RENOVATION NOTIFICATIONS

**Per Indiana Rule 326 IAC 14-10-3(1), all notifications to the IDEM must be submitted on State Form Number 44593.

Per 326 IAC 14-10-5, demolition/renovation fees will be assessed quarterly to owners/ Operators submitting notifications during the previous quarter.

- I. Type of Notification -326 IAC 14-10-3(4).
 - A. If this is the <u>original notice</u>, please check the appropriate space on the notification form
 - B. If this is a <u>revised notice</u>, please check the appropriate space on the notification form. The revised notice must be postmarked and sent by certified mail, return receipt requested, at least 5 working days or delivered at least 2 working days before the start date of asbestos stripping or removal specified in: (1) the notice being revised **and** (2) the new revised notice. Facsimiles **will** be accepted by the IDEM.
 - C. All revisions must include a copy of the notice being revised.
 - D. If this is a <u>canceled notice</u>, please check the appropriate space on the notification form.
 - E. Courtesy Notification
- II. Facility Information 326 IAC 14-10-3(3)(B) and (R)
 - A. Either the owner or operator must submit the notice.
 - B. The owner means the individual(s) who own the property or lease the property.
 - C. The <u>operator</u> means the asbestos removal contractor or demolition contractor.
 - D. Specify the name, address, telephone number, Indiana license number and license expiration date, of the:
 - 1. asbestos removal contractor,
 - 2. inspector who conducted the assessment prior to demolition or renovation and
 - 3. project designer required or asbestos projects at schools K-12, or if project designer is used for non-school projects must be licensed.
- III. Type of Operation 326-IAC 14-10-3(3)(C), (O) and (S)
 - A. Refer to the definitions of demolition, renovation, and emergency renovation Operation in 326-IAC 14-10-2.
 - B. Ordered demolitions and emergency renovation operations have additional

- Notification requirements. Owner/operator must also complete Section XV or XVI of notification form.
- C. Demolition by intentional burning must comply with an approved Variance from Opening Burning Regulation 326IAC 4-1.

IV. <u>Is Asbestos Present? - Required by Federal 40 CFR Part 61, Subpart M</u>

- A. If asbestos is present, indicate "yes" in the space provided.
- B. If asbestos is not present, indicate "no".

V. <u>Procedures, Including Analytical Methods, if appropriate, Used to Detect the Presence and Amount of Asbestos Material - 326 IAC 14-10-3(3)(E).</u>

Describe how the asbestos was detected and, if samples were analyzed, specify the amount of friable asbestos visually during a walk-through inspections using a tape measure, blueprints, or pacing. Analytical methods could include the collection of samples and sample analyses by a polarized light microscope with dispersion staining.

For samples that test under 10% asbestos content: An owner or operator may (1) elect to assume material to be greater than 1% asbestos, or, (2) require verification by point counting in which the point counting result will supercede the visual estimation. Either choice and result should be stated on the notice when a sample is under 10% asbestos.

VI. Approximate Amount of Asbestos to be Removed - 326 IAC 14-10-3(3)(F)

- A. Specify the amount of regulated (friable) asbestos-containing material to be removed as follows:
 - 1. linear feet on pipes,
 - 2. square feet (surface area) on the facility components, and
 - 3. total cubic feet (volume) on or off all facility components. (All reported regulated amounts must be converted to cubic feet).
- B. Estimate the approximate amount of Category I and Category II non-friable asbestos-containing material in the affected part of the facility that will be removed before demolition.
- C. Estimate the approximate amount of Category I and Category II non-friable asbestos-containing material in the affected part of the facility that will not be removed before demolition.

VII. Scheduled Dates of Asbestos Stripping/Removal - 326 IAC 14-10-3(3)(H)

This means the actual start and end dates of the asbestos stripping or removal.

VIII. Scheduled Dates of Asbestos Stripping/Removal - 326 IAC 14-10-3(3)(H)

This means the starting and ending dates of the total demolition or renovation operation. For example: A renovation project may be scheduled from February 1 through March 15, 1995, however, the actual asbestos removal will occur from February 15, through 20, 1995. Demolition **must** start on date given in most recent notification.

IX Facility Description - 326 IAC 14-10-3(3)(D) and (G)

Include the building name, floor and number of the room(s) where the asbestos stripping or removal will take place. Provide enough detail that an unfamiliar inspector can find the asbestos project without asking anyone.

X. <u>Description of planned Demolition or Renovation Work, Methods/Techniques to be Used,</u> and Affected Facility Components - 326 IAC 14-10-3(3)(K)

Briefly describe the methods to be used to conduct the demolition or renovation. For renovations, these methods may include gross removal, glove bag removal, hand stripping or scraping. For demolitions, methods may include a wrecking Ball, bulldozer, dynamite, or unbolting panels or sections and carefully lowering to the ground. Affected facility components may include pipe wrap, floor tile, sprayed-on insulation, transite, etc.

- XI. <u>Description of Work Practices and Engineering Controls To Be Used To Prevent</u>
 <u>Emissions of Asbestos At the Site, Including Asbestos Stripping, Removal, and Waste</u>
 <u>Handling Procedures and the Procedures to Prevent Non-Friable Asbestos Material from</u>
 Becoming Friable in the Course of the Project 326 IAC 14-10-3(3)(L)
 - A. Examples of work practices and engineering controls to prevent asbestos emissions at the site would include: the use of water or wetting agents, containments, and negative air units during removal; placing into leak-tight containers or wrapping with six (6) mil thick polyethylene plastic sheeting which is properly labeled prior to disposal, etc.
 - B. Examples of removal and waste handling procedures to prevent non-friable material from becoming friable would include: removing by sections or units taking care not to crumble, pulverize, or reduce to power, using water to prevent any emissions, placing into leak-tight containers or wrapping with six (6) mil thick plastic which is properly labeled prior to disposal (including name or waste generator and location at which the waste was generated), etc.
- XII.** Description of Procedures to be Followed in the Event that Unexpected Asbestos is Found or Previously Non-Friable Asbestos Material Becomes Crumbled, Pulverized or Reduced to Powder 326 IAC 18-3 and 326 IAC 14-10-3(3)(M).
 - A. If the amount of unexpected asbestos or previously non-friable asbestos material is > 3 LnFt on pipes, 3 SqFt on other facility components, or a total of 0.75 CuFt on or off all facility components, then an accredited contractor (unless in-house accredited

personnel) with accredited personnel must implement the asbestos removal project in accordance with the requirements of 326 IAC 14-10.

- B. Pursuant to 326 IAC 14-10, a revised demolition/renovation notification must be submitted to the IDEM, which reflects the change in the amount of affected asbestoscontaining material. The revised notice must also reflect the new asbestos removal start date, if applicable.
- ** Required by 40 CFR Part 61, Subpart M

XIII. Waste Transporter - 326 IAC 14-10-3(3)(T)

Provide the name, address and telephone number of only the asbestos waste transporter. This should include the waste transporter's name, street address, city, state, zip code, contact person, and telephone number.

XIV. Waste Disposal site - 326 IAC 14-10-3(3)(N)

Provide the name and location of the sanitary landfill where the asbestos-containing waste material will be deposited. This should include the name, street address, city, state, zip code, waste disposal site contact person, and telephone number.

XV. <u>If Demolition Ordered by a Governmental Agency, Identify the Agency and Attach a Copy of the Order - 326 IAC 14-10-3(3)(O)</u>

- A. Provide the name, title and authority of the of the state or local governmental representative who has ordered the demolition .
- B. The authority is the applicable state or local regulation under which the demolition order has been issued.
- C. Attach a copy of the demolition order to the notice.

XVI. Emergency Renovations - 326 IAC 14-10-3(3)(S)

A. Specify

- 1. the date and hour that the emergency occurred,
- 2. a description of the sudden unexpected event, and
- 3. an explanation of how the event has caused emergency conditions
- B. An "emergency renovation operation" is a renovation operation that was not planned but results from a sudden, unexpected event. This term includes operations necessitated by non-routine failures of equipment.

XVII. <u>Certification Statement and Signature by Owner/Operator - 326 IAC 14-10-3(3)(O) and (P)</u>

Self-explanatory.

118-2015

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT NOTIFICATION OF DEMOLITION AND RENOVATION OPERATIONS

State From 44593 (R2 / 8-99)

I.	TYPE OF NOTIF	FICATION (check one):	Original * Must inclu	Revised * de copy of notification which	Canceled	Courtesy
II.	FACILITY INFO	DRMATION (identify owner,	removal contractor, demolition	n contractor, inspector, and p	roject designer)	
	Owner:					
	Address:					
	City:			State:		Zip:
	Contact:			Telephone #:		
	Removal Contractor:			Demolition Contractor:		_
	City:	State:	Zip:	City:	State:	Zip:
	Contact:		Phone:	Contact:	Phone:	
	IN License #:		Expiration:			
				(Required for asbestos	projects at schools K – 1	12)
	Inspector:			Project Designer:		
	Address:			Address:		
	City:	State:	Zip:		State:	
	IN License #:		Expiration:	IN License #:	Expiration	1:
	Phone:			Phone:		
III.		ATION (check one) stentional Burning:	Renovation: Demolition:		Emergency Renovati Ordered Demolition:	on:
IV.		PRESENT? (check one)	YES:	NO:	Ordered Demonitori.	
V.	PROCEDURES,	INCLUDING ANALYTICAL IN	METHODS, IF APPROPRIATE.	USED TO DETECT THE PRE	SENCE AND AMOUNT OF AS	SBESTOS MATERIAL
VI.	APPROXIMATE	AMOUNT OF ASBESTOS (II	ncluding Regulated ACM, Cat	egory I non-friable Category I	I non-friable ACM)	
		Regulated		bestos Material removed		sbestos Material d before demolition
		ACM to be removed	Category I	Category II	Category I	Category II
Pipes (L	₋nFt)		3.7	3- 7		, , , , , , , , , , , , , , , , , , ,
Surface	Area (SqFt)					
	olume (CuFt) components					
VII.	'	ATTE OF ACRECTOR CTRIP	DINC/DEMOVAL. Store		End:	
VIII.		ATES OF ASBESTOS STRIP ATES OF RENOVATION:	PING/REMOVAL: Start Start: En		DLITION: Start:	End:
IX.			name, floor, and room numb			
	Building Nam	e:				
	Street Addres					
	City: State: County:					
	Location of re	moval within building:				
	Building Size	(SqFt):		;	# of Floors:	Age:
	Present Use: Prior use:					

X.	DESCRIPTION OF PLANNED TYPE OF MATERIALS REMO		NOVATION WORK, ME	ETHODS/TE	ECHNIQUES TO BE US	ED, AFFEC	FED FACILITY COM	PONENTS AND
XI.	DESCRIPTION OF WORK PR INCLUDING ASBESTOS STR BECOMING FRIABLE IN THE	IPPING, REMOVAL AN	D WASTE HANDLING					,
XII.	DESCRIPTION OF PROCEDU MATERIAL BECOMES CRUMI				CTED ASBESTOS IS F	OUND OR P	REVIOUSLY NON-F	RIABLE ASBESTOS
XIII.	WASTE TRANSPORTER			XIV.	WASTE DISPOSAL S	SITE		
	Name:				Name:			
	Address:				Address:			
	City: 5	State:	Zip:		City:	State	e:	Zip:
	Contact:	Phone:			Contact:		Phone:	
XV.	IF DEMOLITION ORDERED B FACILITY IS NOT INSPECTED DEMOLITION OR ASSUME AL	PRIOR TO DEMOLITI	ION, THE DEBRIS MU	ST BE KEF	T ADEQUATELY WET.	THE DEBR	IS MUST THEN BE	INSPECTED AFTER
	Name:		Title:			Date ord	ered to begin:	
	Authority:					Date of 0	Order:	
XVI.	FOR EMERGENCY RENOVAT	TIONS:			Date and time of emer	gency:		
	Description of sudden, unexped	cted event:						
	Explanation of how the event c	aused unsafe conditions	s or would cause equip	oment dama	age:			
								_
XVII.	IHEREBY CERTIFY THAT THE SUPERVISORS, TO IMPLEME INDIANAPOLIS AIR POLLUTIC WAS ACCOMPLISHED SHALI	NT THIS ASBESTOS PE ON CONTROL BOARD F	ROJECT, WHICH HAVI REGULATION 14. THE	E BEENTR. E TRAINED	AINED IN 326IAC 14-10; INDIVIDUAL(S) ALONG	40 CFR PAR	T61, SUBPARTM; A	ND, IF APPLICABLE,
	Owner/operator (signature)				date			
	Owner/operator (printed)				affiliation			
*****	********	******	****** OFFICEUSEC	NLY ***	*******	******	******	******
POSTM	IARK:	RECEIVED:	2000	REVIE	WED BY:		DEFICIENCIES	:
			page	2 UI Z				





Report for:

Ellen Mullen Crane Environmental Services, LLC 1120 Star Gate Rd. Evansville, IN 47725-8232

Regarding: Project: 118-2015; 813 E. Virginia St.

EMĹ ID: 1973108

Approved by:

Dates of Analysis: Asbestos PLM: 08-07-2018

Approved Signatory Renee Luna-Trepczynski

Rena Luna-Frapezynski

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K

1501 West Knudsen Drive, Phoenix, AZ 85027 (800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Crane Environmental Services, LLC

C/O: Ellen Mullen

Re: 118-2015; 813 E. Virginia St.

Date of Sampling: 08-01-2018 Date of Receipt: 08-02-2018 Date of Report: 08-07-2018

ASBESTOS PLM REPORT

Total Samples Submitted: 13

Total Samples Analyzed: 13

Total Samples with Layer Asbestos Content > 1%: 2

Location: 15-1-1, Hard Plaster Wall

Lab ID-Version‡: 9298263-1

Sample Layers	Asbestos Content
Gray Base Coat	ND
White Skim Coat with Multilayered Paint	ND
Composite Non-Asbestos Content:	< 1% Cellulose
	< 1% Hair/Wool
Sample Composite Homogeneity:	Moderate

Location: 15-1-2, Hard Plaster Wall

Lab ID-Version 1: 9298264-1

Sample Layers	Asbestos Content	
Gray Base Coat	ND	
White Skim Coat with Multilayered Paint	ND	
Composite Non-Asbestos Content: < 1% Hair/Wool		
Sample Composite Homogeneity:	Moderate	

Location: 15-1-3, Hard Plaster Wall

Lab ID-Version‡: 9298265-1

Sample Layers	Asbestos Content
Gray Base Coat	ND
White Skim Coat with Cream Paint	ND
Composite Non-Asbestos Content:	
	< 1% Hair/Wool
Sample Composite Homogeneity:	Moderate

Location: 15-1-4, Hard Plaster Ceiling

Lab ID-Version 1: 9298266-1

Sample Layers	Asbestos Content
Gray Base Coat	ND
White Skim Coat with Multilayered Paint	ND
Composite Non-Asbestos Content:	< 1% Hair/Wool
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

 \ddagger A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Aerotech Laboratories, Inc EMLab ID: 1973108, Page 2 of 5

1501 West Knudsen Drive, Phoenix, AZ 85027 (800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Crane Environmental Services, LLC

C/O: Ellen Mullen

Re: 118-2015; 813 E. Virginia St.

Date of Sampling: 08-01-2018 Date of Receipt: 08-02-2018 Date of Report: 08-07-2018

ASBESTOS PLM REPORT

Location: 15-1-5, Hard Plaster Ceiling

Lab ID-Version‡: 9298267-1 Sample Layers **Asbestos Content** Gray Base Coat ND White Skim Coat with Multilayered Paint ND **Composite Non-Asbestos Content:** | < 1% Hair/Wool Sample Composite Homogeneity: Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

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Aerotech Laboratories, Inc EMLab ID: 1973108, Page 3 of 5

Lab ID-Version‡: 9298268-1

Lab ID-Version‡: 9298270-1

Lab ID-Version † 9298271-1

1501 West Knudsen Drive, Phoenix, AZ 85027 (800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Crane Environmental Services, LLC

C/O: Ellen Mullen

Re: 118-2015; 813 E. Virginia St.

Date of Sampling: 08-01-2018 Date of Receipt: 08-02-2018 Date of Report: 08-07-2018

ASBESTOS PLM REPORT

Location: 15-1-6, Hard Plaster Ceiling

Sample Layers	Asbestos Content
Gray Base Coat	ND
White Skim Coat	ND
Composite Non-Asbestos Content:	
	< 1% Hair/Wool
Sample Composite Homogeneity:	Moderate

Location: 15-1-7, Asphalt	Lab ID-Version‡: 9298269-1
Sample Layers	Asbestos Content
Brown Fibrous Material	ND
Black Roofing Shingle with Green/White Pebbles	ND
Composite Non-Asbestos Content:	30% Cellulose
Sample Composite Homogeneity:	Poor

Location: 15-1-8, Ceiling Tile

, 6	·
Sample Layers	Asbestos Content
Brown Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Good

Location: 15-1-9. Ceiling Texture

Location: 13-1-9, Cening Texture	Eur ID (61816)14. 9296271 1
Sample Layers	Asbestos Content
White Ceiling Texture with Gray Surface	ND
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Aerotech Laboratories, Inc EMLab ID: 1973108, Page 4 of 5

Lab ID-Version‡: 9298272-1

1501 West Knudsen Drive, Phoenix, AZ 85027 (800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Crane Environmental Services, LLC

Sample Layers

Gray Wrap

C/O: Ellen Mullen

Re: 118-2015; 813 E. Virginia St.

Date of Sampling: 08-01-2018 Date of Receipt: 08-02-2018 Date of Report: 08-07-2018

ASBESTOS PLM REPORT

Location: 15-1-10, Ceiling Tile

Sample Layers	Asbestos Content
Brown Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Good

Location: 15-B-1, Duct Wrap

Lab ID-Version 1: 9298273-1 **Asbestos Content** 60% Chrysotile **Composite Non-Asbestos Content:** 5% Cellulose

Sample Composite Homogeneity: Good

Location: 15-B-2, Duct Tape

	•
Sample Layers	Asbestos Content
Brown Tape with SIlver Surface	70% Chrysotile
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Good

Location: 15-Dup-1, Hard Plaster Ceiling

Lab ID-Version‡: 9298275-1

Lab ID-Version : 9298274-1

Sample Layers	Asbestos Content				
Gray Base Coat	ND				
Beige Skim Coat	ND				
Composite Non-Asbestos Content:	< 1% Hair/Wool				
Sample Composite Homogeneity:	Moderate				

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

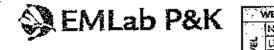
Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

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Aerotech Laboratories, Inc EMLab ID: 1973108, Page 5 of 5

CHAIN OF CUSTODY

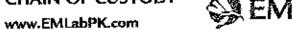
www.EMLabPK.com



		—
EATHER	Fog Rain Snow Wind Clear	
None		
Light	Non-Culturable	M 0012/3108

Phoenix, A7: 1501 West	ingy Avenue, Charry Hill, NJ 08003 ° (8 : Knudgen Driva, Phoenix, AZ 85027 ° (syhill Drive, #100, San Bruno, CA 94066	800) 651-	4802		Moderate			Sport			Çasterre er, Bulk.			sec Plai	×		Requi	ests !
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<u> </u>			NFORMAT		<u> </u>							ŧ.			Ş	<u>}</u>		
Company: Crane Env	vironmental Services, LLC	Ad	dress: 1120	O Star C	Sate Court, Eval	nsville, IN 47	725					Barzeria)			1,7	اجاؤ		i i
_{Contact} Ellen R. Mu	ılien	1.	ecial Instruct Accoun									Surface	1 1	<u> </u>	ge Scrieen schild de borne Sibre Creme (NIOSH 7400)	Asbestos Analysis - PLM (EPA mothod 500/R-92-116)		
Phone: (812) 868-07	709						<u></u>	1:				phys ir and	ا <u>۾</u> ا		ا			
	ECT INFORMATION			TURN	AROUND TIME CO	DDES - (TAT)			Bam Bam	\$	3 3 3		Exel (Presence/Absence)	Membrane Filtration (Please specify arguillain) MPN Barteria (Please specify organism)	i	cthody.		,
Project 1D: 118-2015		STD-	Standard (D	EFAULT)			after 2pm or on	1	Sie	I saud			i-iou	Se spe Silyani	en Achor	EFAIR	Ì	,
Project Desc. 813 E. V	Virginia St.	ND-N	lea Business	Day		weekends, will souved the nex	pe considered t business day.	18,5	E SAID	8	화함		\$.	<u> </u>	50	<u> </u>	(382)	
Project Zip Code: 47711	Sampling Date & Time: 8/1/18 9:30 a.m.	SD - St	ame Business	Day Ruch	I	Please alert us weekend and	in advance of	Spore Trap Analysis	Direct Microscopic Exam (Qualkadva) Ouanttative Spore Court Direct Edm	Listeda Surface Pungi (Genus ID +	2-Acedia Surface Fungi (Genus ID 3-Media Surface Fungi (Genus ID	Cham Stein and Courts (Culturable)	WFC m, £200	Irracios (Pee	Starge	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	specify rest)	
PO Number:		<u>wн -</u> y	Weekend/Ho	liday		WEEKEIN, dije		Spore	Micros	a Starfa	Surf	icein 2	Legenella culture Total Coliform,	E STEEL	ές.	Asbestos Amalysis Asbestos Amalysis	lase.	
\$AMPLE ID	DESCRIPTION		Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)		OTES Temp, RH, etc.)	Fungi	Direct Microscopic Evan (Qualkadva) Ouanttativa Spora Court Direct Evan	1.34 84	3-Med	Gram C	Total (Agi Mg Mg Mg Mg Mg Mg Mg Mg Mg Mg Mg Mg Mg	Quantifray		PCR (
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15-1-2	Hard Plaster Wall		В	STD				i							╬	X		
15-1-3	Hard Plaster Wall	_	[B	STD	ļ 			Ļ								X		
15-1-4	Hard Plaster Ceiling		В	STD		<u>. </u>									. -	X	: '	٠ .
15-1-5	Hard Plastis' Ceiling		₽	STD		ļ									. [×		
%5-1-6	Hard Plaster Celling		B	STD						,	10		, .					
15-1-7	Asphalt		В	\$TD	<u> </u>			 ,	0.00			, ,	, .		, ∦		ļ	
15-1-8	: Celling Tilo		; B	· \$10	<u> </u>					٠. ,	1 1		100		.	×		
15-1-9	Celling l'extrae		B	STO	·	. i		 . ļ	. 4	4 2				, :		1	1	¦
15-3-10	Ceiling Tile		В.	\$110		<u> </u>	<u></u>	_;							╢	X		-
15-B-1	Duct Wrap	<u>.</u>	B	, \$1°D		ļ		ļ							\dashv	X		
15-8-2	Duct Tape	_	В	<u>\$</u> το	<u> </u>	<u> </u>		<u> </u>				<u></u>				×		<u>i</u>
	SAMPLE TYPE CODES	.:.	:: :		RECINQUISH	ED BY	DATE & TIME	3 <u>— — </u>	· · : · · <u>·</u>	RE	CEIVE	BY	<u> </u>	· · ·	<u> </u>	DATE	ERTIN	1E
BC - BioCassette	CP - Contact Place T - Tap	e D	- Dust		David B	<u> </u>	8/1/18 5:00 P	М.	<u></u>		·-y ⁰ ···				Ļ			
A15 - Andersen	ST - Spore Trap: SW - S	wab y	V - Water	_	1 Feder	955	8/2/18	<u> </u>	K_{2}	1	47	<u>1</u>			1			
SAS - Surface Air Samp	Zefon, Allergenco, sier Burkard B - Bul	k 5	O - 50il		. <u></u>		<u> </u>	↓							├—			
O - Other:					: 		<u> </u>	ــالـــ			<u> </u>				<u> </u>			

CHAIN OF CUSTODY





REQUESTE

www.EMLabPk	Ccom	Z CIVII	Lad P		one		None	uturable	WEGOE	~ `	00197	3108	
Phoenix, AZ: 1501 Wes	Olney Avenue, Cherry Hill, NJ 08 8t Kaudsen Drive, Phoenix, AZ (8ayhill Drive, #100, San Bruno,	35027 * (800) .	651-4802	[€] [2	ght		Spore Trap	Тати	Bão Casset	te Anderson k, Dust, Soll,	, SAS, Smals, Contact Plate	Other R	Lequests
	-	CONT	ACT INFORMATI			77.7						g	
Company: Crane En	vironmental Services, l	_FC) Star Gate Cour	, Evansville, IN 4	7725				Bacteria)		H 7	
Contact Ellen R. M			Special Instructi	ions: t #: 4001						ဦု		SO 15:	
Phone: (812) 868-0			ACCOUNT	L#: 400 L					(a) (a) (a)	Sales Services	(E)	Po/R.s	
	JECT INFORMATION			TURN AROUND T	IME CODES - (TAT)		ا	(a) (a)	\$ \$ \$	Ag. 39	specify organism)	Fiber hod 6	:
Project 10: 118-2015		şī	D - Standard (DE	EFAULT)	Rushes received	after 2pm or on	1.5	Fearn (Qualitative) Count Direct Date	Di sui	ilteral	(Nessucal/Absence) (Nesse specify organism) s specify organism)	Aborne Fiber Count (NIOSH 7400) (EPA averlack GRO/R-93-116)	
Project Desc. 813 E.		N	O - Next Business	Day	weekends, wi	ll be considered ext business day	siayle orbay	Amr (G	i (Ger	Genus ics (Cu	Enoli (Pense rotion (Pense (Please specify	M (E) A)	
Project Zip Code: 47711	Sampling 8/1/18 9:30 a		> - Same Business		Please alert u	s in advance of	ıβ για	13 3 3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5	e Fung a Fung a Fung	fungi (ais P	1
PO Number:		11	H - Weekend/Hol	liday	weekend a	nalysis needs.	Fung - Spare Trap	Direct Microscopic	1-Media Surface Fungi (Genus ID + Aup 2-Media Surface Fungi (Genus ID + Aup 3-Aedia Surface Fungi (Genis ID + Aup	Cohurable Air Fangi (Genus ID + Ags. 3pg.) Grani Stain and Counts (Contenable Air and Egionelist cultures		Asbestos Analysis - PCM Abborne Fiber Count (NIOS) Asbestos Analysis - PCM (EPA nischod GAQ/R-93-116) PCR (please specify ras)	
SAMPLE 10	DESCRIPTI	ON:	Sample Type (Below)	TAT Total Volum (Above) (as apple		NOTES ly, Temp, RH, etc.)	Fung	Direct folicio	1-Med3 2-Med3 3-Med3	Cultura Grani S Legional	Foral Coliforn Membrane File MFN Bactoria	Asbest Asbest PCR (p	
15-Dup-1	Herd Plaster Ceiling		В	SID				_				×	
													
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	<u> </u>		<u> </u>				<u> </u>	 _			-	<u> </u>	<u>: </u>
	SAMPLE TYPE COD	ES	<u> </u>		QUISHED BY	DATE & TIME		····	RECEIVE	D BY		DATE &	TIME
BC - BioCassette"	CP - Contact Plate	T - Tape	D - Dust	Jarend	Bar-	8/1/18 5:00 P	M.	7	- Dis				
A 2S - Andersen	ST - Spore Trap: Zefon, Allergenco,	SW - Swab	W - Water	0+ed	ex 955	<u> </u>	╫┈	<u> </u>	177	*maa,			
SAS - Surface Air Sam	pler Burkard	B - Bulk	50 - Soil		····		╟─						
O - Other:							JI				1		

WEATHER Fog Rain Snow Wind Clear

CES

Crane Environmental Services, Inc.

1120 Star Gate Court Evansville, IN 47725 (812) 868-0709 Fax: (812) 868-1232 Evansville, IN 47724-7021

SAMPLING DIAGRAM

Project: 118-2015

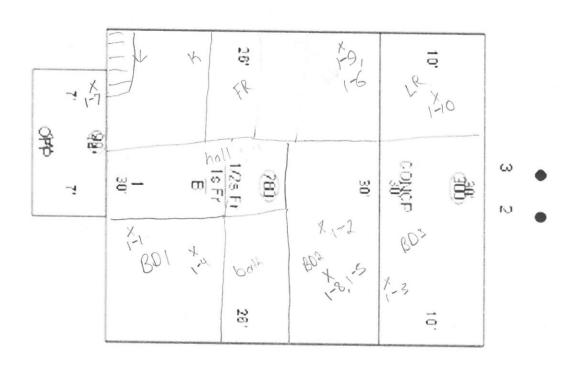
Sampled By: Ellen Mullen

Location: 813 E. Virginia St.

Date: 8/\ /2018

9:30-am - 10 am

First Floor



Roofing: Shingles Rolled Other
Siding: Transite Wood Other
Garage: Yes No Shed
G. Roof: Shingles Rolled Other
Basement: Yes No
2nd Floor: Finished Unfinished No

	PI	Pipe Insulation	JC	Joint Comp.	FT	Floor Tile	CLK	Caulking
E	PJ	Pipe Joint	INS	Insulation	ShVF	Sheet Vinyl	ОТ	Other
Y	HP	Hard Plaster	СТ	Ceiling Tile	TR	Transite	UK	Unknown

CES

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SAMPLING DIAGRAM

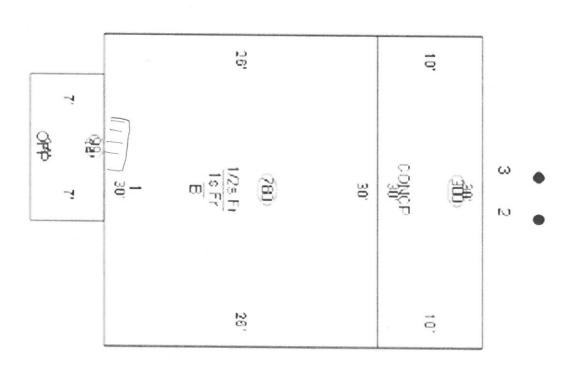
Project: 118-2015

Sampled By: Ellen Mullen

Location: 813 E. Virginia St.

Date: / /2018

Basement



Basement: Yes No

2nd Floor: Finished Unfinished No

K	PI	Pipe Insulation	JC	Joint Comp.	FT	Floor Tile	CLK	Caulking
IE	PJ	Pipe Joint	INS	Insulation	ShVF	Sheet Vinyl	ОТ	Other
Y	HP	Hard Plaster	СТ	Ceiling Tile	TR	Transite	UK	Unknown



Crane Environmental Services, Inc.
1120 Star Gate Court
Evansville, IN 47725
(812) 868-0709 Fax: (812) 868-1232
Evansville, IN 47724-7021

CHAIN OF CUSTODY

Project: 118-2015

Sampled By: Ellen Mullen

Location: 813 E. Virginia St.

Date: / /2018

DATE	SAMPLE #	MATERIAL SAMPLED	LOCATION	Notes
	1-1	HP	BO\ Wall	
	1-2	HP	BO2 Wall	close-
	1-3	HP	BD3 Wall	closet
	1-4	HP	BDI Ceiling	Dap-1
	1-5	HP	BDA Ceiling	
	1-6	НР	FR Ceiling	
	1-7	asph	siding	
	6-1	DU	bosement	12' - 12'+7'+10' R" - 6', 10' A(M may be inside boiler
	B-2	70	bosement	A/M may be inshe boiler
	1-8	C7	BPZ	
	1-9	text	FR	Celling
	1-10	CT	LV	

K	PI	Pipe Insulation	JC	Joint Comp.	FT	Floor Tile	CLK	Caulking
IEI	PJ	Pipe Joint	INS	Insulation	ShVF	Sheet Vinyl	ОТ	Other (explain)
Y	HP	Hard Plaster	СТ	Ceiling Tile	TR	Transite	UK	Unknown