SIERRA ENVIRONMENTAL GROUP, INC.

December 8, 2015

Mr. Dennis Zimmer
City of Dayton
Department of Building Services/Division of Housing Inspection
P.O. Box 22
371 West 2nd Street, Room 324
Dayton, OH 45402

Re: Comprehensive Pre-Demolition Asbestos Inspection
Vacant Residence
107 Morgan Avenue
Dayton, Ohio 45417
Sierra Project Number: MCLB.002

Dear Mr. Zimmer:

On November 25, 2015, Mr. Chris Kuettner (Ohio Department of Health Certified Asbestos Hazard Evaluation Specialist #ES33689) of Sierra Environmental Group, Inc. (Sierra) visited the vacant residence located at 107 Morgan Avenue in Dayton, Ohio. The purpose of this visit was to conduct a comprehensive asbestos inspection of the specified residence scheduled for demolition. This inspection process includes a visual inspection, as well as, the collection and analyses of samples from suspect asbestos-containing materials.

During the survey, the samples were collected utilizing sampling methods outlined in current EPA Guidance Documents. Each sample was collected and placed in a clean, sealable container and labeled with a unique sample identification number. Pertinent information was recorded on a Bulk Sample Log Sheet, including sample identification number, date of inspection, name of inspector, building name, a brief description and location of the sample, and the type of material sampled (e.g., thermal insulation, fireproofing, acoustical plaster). The samples were submitted to an analytical laboratory and analyzed for asbestos content by polarized-light microscopy (PLM) and dispersion staining (Method Reference: EPA-600/R-93/116). This analytical method, which the EPA currently recommends for the determination of asbestos in bulk samples of suspect materials, can be used for qualitative identification of six morphologically different types of asbestos fibers: chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite asbestos.

The method specifies that the asbestos content in a bulk sample shall be estimated and reported as a finite percentage (rounded to the nearest percentage) within the range of 0 to 100. The result of the bulk sample analysis is reported in a standard written laboratory report. This report includes the client's name, the project number, the laboratory identification number, the sample number assigned to the bulk sample upon receipt at the laboratory, and the field number assigned to the bulk sample upon collection on site. If the bulk sample contains more than one distinct layer of material, each layer is analyzed separately. The composition of the bulk sample is reported in percentages of asbestos (i.e., chrysotile, amosite, or other) and non-asbestos (i.e., cellulose, fiberglass, or other) components. The results of the sample analyses can be found on the laboratory report enclosed and Table 1.

Sierra collected samples from wall and ceiling systems, flooring materials, roofing materials, blown-in insulation, tar paper, window glaze and cementitious panels. Two (2) Category II asbestos-containing materials were identified within the residence scheduled for demolition (Table -2 Asbestos Inventory). The cost to remove the Category II asbestos-containing materials from this site prior to demolition would be $5,530.00. These costs have been estimated and are based on local wage rates and do not include prevailing wage rates. These costs do not include specifications, permits, contractor oversight or third party monitoring.

Sierra made every effort to locate suspect asbestos-containing materials that may be concealed; however, suspect asbestos-containing materials which may be located behind hard plaster walls or ceilings, hard walled chases, under flooring or sub-

flooring, under building contents, etc., were not assessed or quantified. If through demolition suspect materials are discovered that were not sampled during the initial site visit; Sierra should be notified to document any additional samples that may be required and handled accordingly.

This report is prepared to assist the Montgomery County Land Reutilization Corporation, City of Dayton, construction managers and asbestos abatement contractors in locating asbestos-containing materials. This report is not intended as a bidding document or project specifications.

Enclosed are the following Sierra documents: 1) Table 1-Bulk Sample Data Summary; 2) Table 2-Asbestos Inventory; 3) Table 3-Cost Estimate; 4) Laboratory Report; 5) Floor Plan; 6) Site Photographs and 7) Inspector's Certification. If we can be of further assistance on this or any other project, do not hesitate to call us at (513) 542-5323.

Sincerely,

SIERRA ENVIRONMENTAL GROUP, INC.

Todd Taylor
Operations Manager

Attachments

TABLE 1: BULK SAMPLE DATA SUMMARY

SAMPLE DESCRIPTION (Material Type)	SAMPLE LOCATION	HOMO AREA #	SAMPLE I.D. NO.	ASBESTOS CONTENT	FRIABLE/ NONFRIABLE
1'x4' Suspended ceiling tile (Miscellaneous)	Dining room	10	10-1	None Detected	Friable
1'x4' Suspended ceiling tile (Miscellaneous)	Dining room	10	10-2	None Detected	Friable

*Quantified By PLM Point Count Method

TABLE 2 - ASBESTOS INVENTORY

Location	Type ACM	Material Description	Amt. of Material (approx.)
The following asbestos-containing materials are located in the vacant residence located at 107 Morgan Avenue, Dayton, Ohio.			
Entire residence	II	Drywall and associated joint compound	1,300 sf
Mechanical room	II	Cementitious panels	110 sf

TABLE 3 - COST ESTIMATE

Location	Type ACM	Material Description	Cost for abatement (approx.)
The following asbestos-containing materials are located in the vacant residence located at 107 Morgan Avenue, Dayton, Ohio.			
Entire residence	II	Drywall and associated joint compound	$5,200.00
Mechanical room	II	Cementitious panels	$330.00

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 15-11-03311

Client: Sierra Environment Group Inc.
1041 Straight Street
Cincinnati, OH 45214

Received Date: 11/27/2015
Analyzed Date: 11/30/2015
Reported Date: 11/30/2015

Project/Test Address: MCLB.002 - 107 Morgan Ave

Client Number:
36-6195

Fax Number:
513-542-6653

Laboratory Results

Lab Sample	Client Sample	Layer Type	Lab Gross Description	Asbestos	Other

Environmental Hazards Services, L.L.C

Client Number: 36-6195 **Report Number:** 15-11-03311

Project/Test Address: MCLB.002 - 107 Morgan Ave

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
15-11-03311-006	3-2	--	Beige/White Granular; Homogeneous	Trace <1% Chrysotile	100% Non-Fibrous
			Total Asbestos:	**Trace <1%**	
15-11-03311-007	4-1	--	White Chalky; Brown Fibrous; Inhomogeneous	NAD	5% Cellulose 95% Non-Fibrous
15-11-03311-008	4-2	--	White Chalky; Brown Fibrous; Inhomogeneous	NAD	5% Cellulose 95% Non-Fibrous
15-11-03311-009	5-1	--	Tan Chalky; Pink Paint-Like; Inhomogeneous	2% Chrysotile	98% Non-Fibrous
			Total Asbestos:	**2%**	
Chrysotile present throughout sample					
15-11-03311-010	5-2	--		Did Not Analyze (Positive Stop)	
15-11-03311-011	6-1	--	Green Vinyl; Homogeneous	NAD	2% Synthetic 98% Non-Fibrous
15-11-03311-012	6-2	--	Green Vinyl; Homogeneous	NAD	2% Synthetic 98% Non-Fibrous
15-11-03311-013	7-1	--	Gray Cementitious Fibrous; Homogeneous	20% Chrysotile	80% Non-Fibrous
			Total Asbestos:	**20%**	

Environmental Hazards Services, L.L.C

Client Number: 36-6195 **Report Number:** 15-11-03311

Project/Test Address: MCLB.002 - 107 Morgan Ave

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
15-11-03311-014	8-1	--	Black Tar-Like Fibrous; Homogeneous	NAD	80% Cellulose 5% Synthetic 15% Non-Fibrous
15-11-03311-015	8-2	--	Black Tar-Like Fibrous; Homogeneous	NAD	80% Cellulose 5% Synthetic 15% Non-Fibrous
15-11-03311-016	9-1	--	White Fibrous; Homogeneous	NAD	99% Fibrous Glass 1% Non-Fibrous
15-11-03311-017	9-2	--	White Fibrous; Homogeneous	NAD	99% Fibrous Glass 1% Non-Fibrous
15-11-03311-018	10-1	--	Brown Fibrous; Beige Paint-Like; Inhomogeneous	NAD	97% Cellulose 1% Fibrous Glass 2% Non-Fibrous
15-11-03311-019	10-2	--	Brown Fibrous; Homogeneous	NAD	97% Cellulose 1% Fibrous Glass 2% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 36-6195 **Report Number:** 15-11-03311

Project/Test Address: MCLB.002 - 107 Morgan Ave

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials

QC Sample: 79-M22012-1

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Kathy Fletcher

Reviewed By Authorized Signatory: Melissa Kanode

Missy Kanode
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0 VELAP 460172. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

Analyst Signature Page

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Report Number: 15-11-03311

Client: Sierra Environment Group Inc.
1041 Straight Street
Cincinnati, OH 45214

Received Date: 11/27/2015
Analyzed Date: 11/30/2015
Reported Date: 11/30/2015

Client Number: 36-6195

Project/Test Address: MCLB.002 - 107 Morgan Ave

Analyst(s)

Kathy S. Fletcher

Kathy Fletcher

19PLM

Asbestos Chain-of-Custody

15-11-03311

Due Date:
12/02/2015
(Wednesday)
AE M Inv

KF

EHS Laboratories™

Environmental Hazards Services, LLC

www.leadlab.com
(800)347-4010
(804)275-4907 (fax)

7469 Whitepine Rd
Richmond, VA 23237

Company Name: Sierra Environmental Group, Inc. Address: 1041 Straight Street City/State/Zip: Cincinnati, Ohio 45214

Phone: (513) 542-5323 Fax: (513) 542-6653 E-mail: Acct. Number: 36-6195

Project Name / Testing Address: MCLB. 002 - 107 Morgan Ave **City/State (Required):**

Collected by: C. Kuttner Purchase Order Number:

Turn Around Times : ***If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.***

____ 1 - Day ____ 2 - Day X 3 - Day ____ Same Day (Must Call Ahead) ____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	1-1	11-25-15	X												Stop 8/5+7 (SAP)
2	1-2														↓
3	2-1														SAP
4	2-2														↓
5	3-1														SAP
6	3-2														↓
7	4-1														SAP
8	4-2														↓
9	5-1														SAP
10	5-2														↓

Released by: Chris Kuttner Signature: Chris Kuttner Date/Time: 11-25-15 / 5:30 PM

Received by: S. Nicolella Signature: S. Nicolella Date/Time: 11/25/15

EHS Laboratories™

Environmental Hazards Services, LLC

www.leadlab.com
(800)347-4010
(804)275-4907 (fax)

7469 Whitepine Rd
Richmond, VA 23237

Asbestos Chain-of-Custody

3311

~ For Lab Use Only ~

Company Name: Sierra Environmental Group, Inc. Address: 1041 Straight Street City/State/Zip: Cincinnati, Ohio 45214

Phone: (513) 542-5323 Fax: (513) 542-6653 E-mail: Acct. Number: 36-6195

Project Name / Testing Address: MCLB. 002 - 107 Morgan Ave **City/State (Required):**

Collected by: C. Kuttner Purchase Order Number:

Turn Around Times : ***If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.***

____ 1 - Day ____ 2 - Day ✓ 3 - Day ____ Same Day (Must Call Ahead) ____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	6.1	11-25-15	✓												SAP
2	6.2	↓	↓												↓
3	7.1														
4	8.1														SAP
5	8.2														↓
6	9.1														SAP
7	9.2														↓
8	10.1														SAP
9	10.2	↓	↓												↓
10															

Released by:	C. Kuttner	Signature:	Date/Time: 11.25.15 / 5:30 PM
Received by:	S Nicolella	Signature: S Nicolella	Date/Time: 11/25/15

EHS Laboratories

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos 400 Point Count Analysis Report

Report Number: 15-11-03642

Client: Sierra Environment Group Inc.
1041 Straight Street
Cincinnati, OH 45214

Received Date: 11/27/2015
Analyzed Date: 11/30/2015
Reported Date: 11/30/2015

Project/Test Address: MCLB.002 - 107 Morgan Ave.; EHS# 15-11-03311

Client Number:
36-6195

Fax Number:
513-542-6653

Laboratory Results

Lab Sample Number	Client Sample Number	Lab Gross Description	% Asbestos	Narrative ID
15-11-03642-001	3-1	White/Beige Granular	0.25 % Chrysotile	
15-11-03642-002	3-2	White/Beige Granular	<0.25 % Chrysotile	A12
15-11-03642-003	5-1	Tan Chalky; Pink Paint-Like	1.00 % Chrysotile	
15-11-03642-004	5-2	Tan Chalky; Pink Paint-Like	1.25 % Chrysotile	

Sample Narratives:

A12: Chrysotile fibers observed but did not fall under any counted points.

Reporting Limit: 0.25 % Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Kathy Fletcher

Reviewed By Authorized Signatory:

Julie Dickerson
Laboratory Administrator

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0 VELAP 460172.

LEGEND NAD = No Asbestos Detected

Analyst Signature Page

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237

Telephone: 800.347.4010

Report Number: 15-11-03642

Client: Sierra Environment Group Inc.
1041 Straight Street
Cincinnati, OH 45214

Received Date: 11/30/2015
Analyzed Date: 11/30/2015
Reported Date: 11/30/2015

Client Number: 36-6195

Project/Test Address: MCLB.002 - 107 Morgan Ave.; EHS# 15-11-03311

Analyst(s)

Kathy S. Fletcher

Kathy Fletcher

EHS Laboratories

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

POINT COUNT REQUEST FORM

15-11-03642

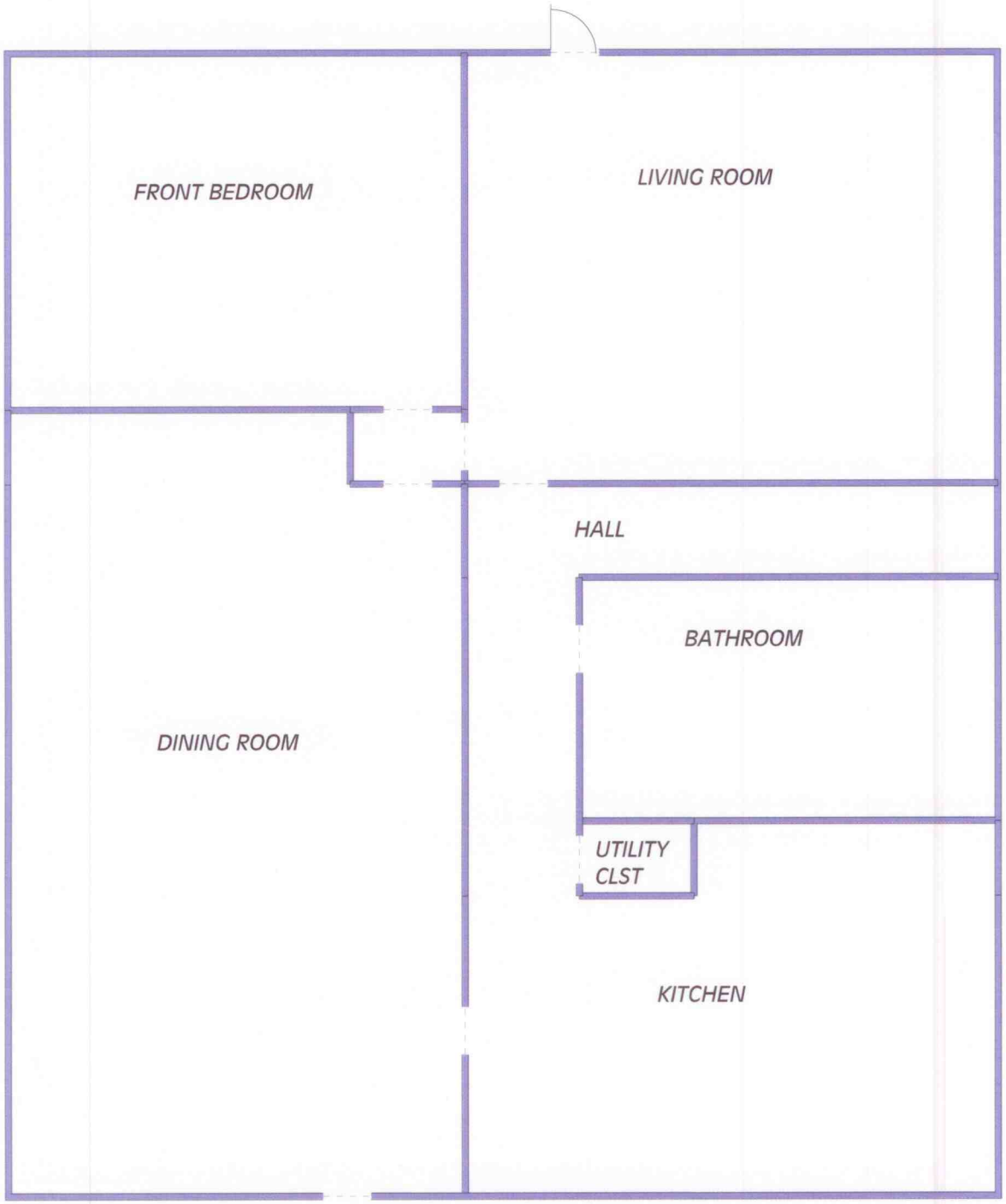
Due Date:
12/02/2015
(Wednesday)
AE M Inv

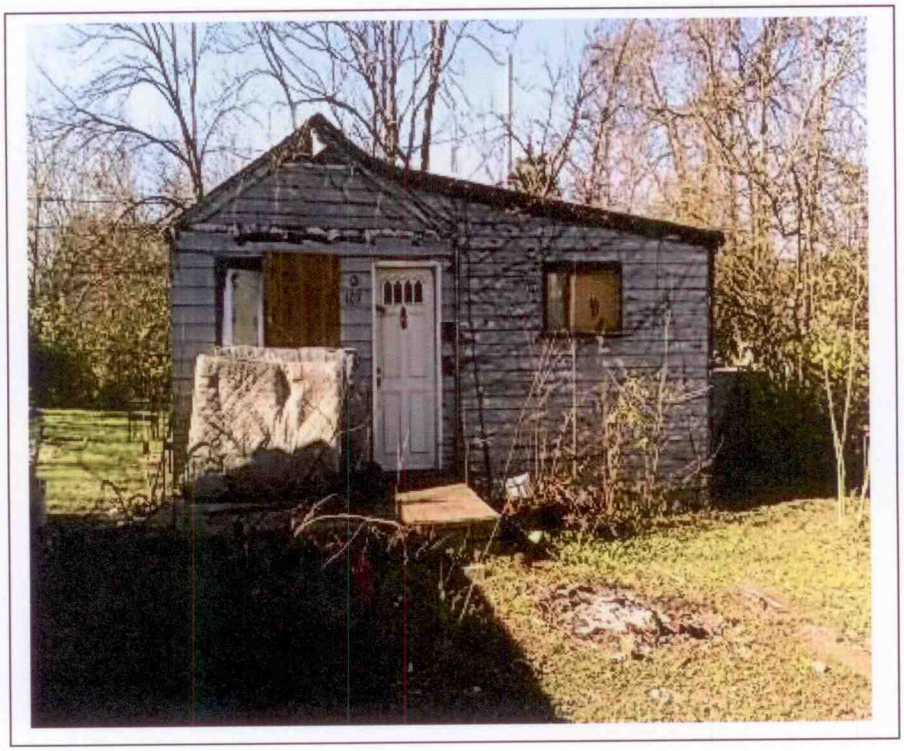
Received Date: 11/30/2015
Client #: 36-6195
Company Name: Sierra Environment Group Inc.
Project/Test Address: MCLB.002 - 107 Morgan Ave.; EHS# 15-11-03311
Analysis Requested: 400 Pt Ct

Client Sample #	EHS Sample #	Sample Location and/or Comments
3-1	5	
3-2	6	
5-1	9	
5-2	10	

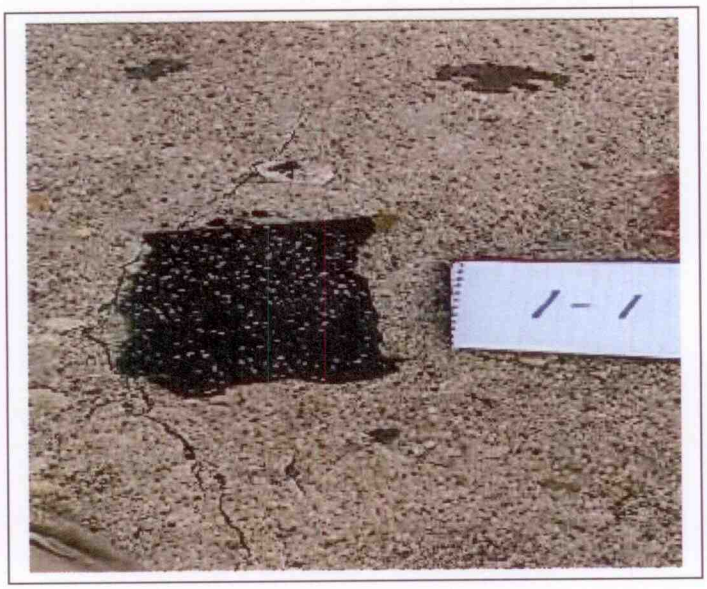
Date Samples Received	Received By	Original Analyst	Date Analyzed	Date Request Received	Received By
11/27/15	Sue	Kathy	11/30/15	11/30/15	Tariq

107 MORGAN AVENUE
FIRST FLOOR

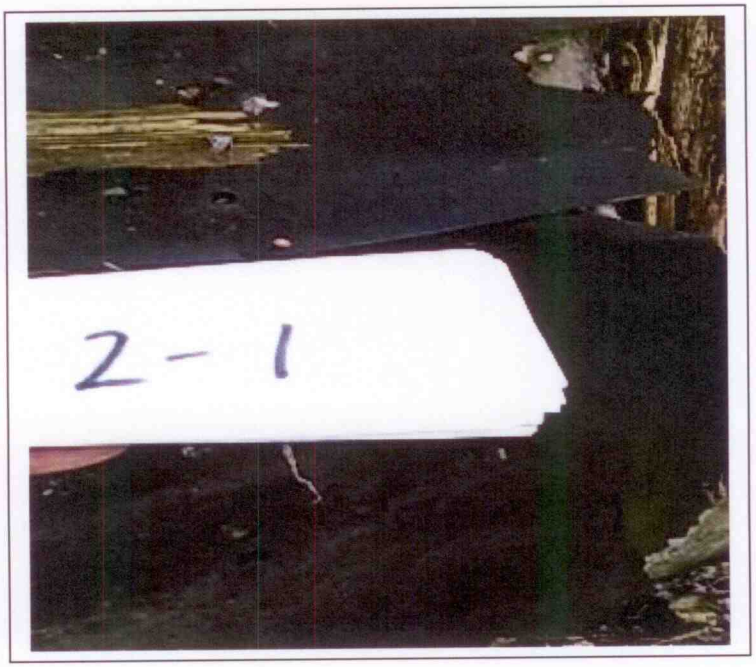




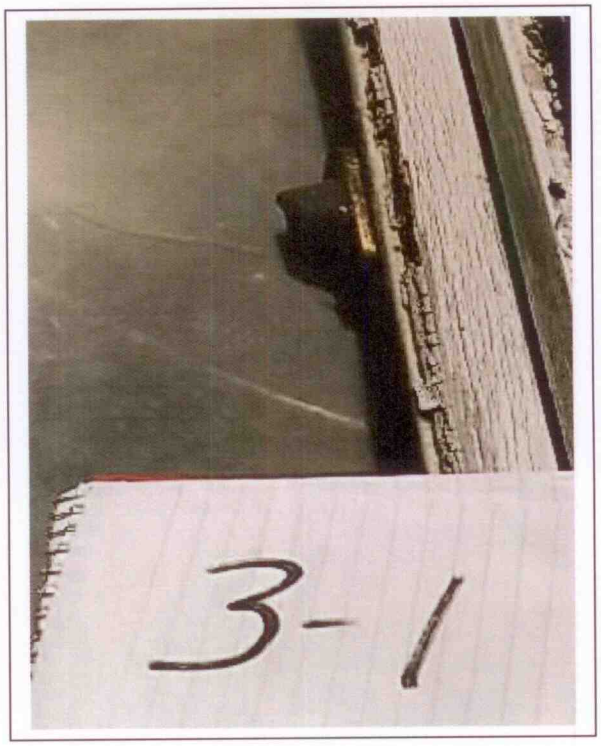
107 Morgan Avenue



Roofing material

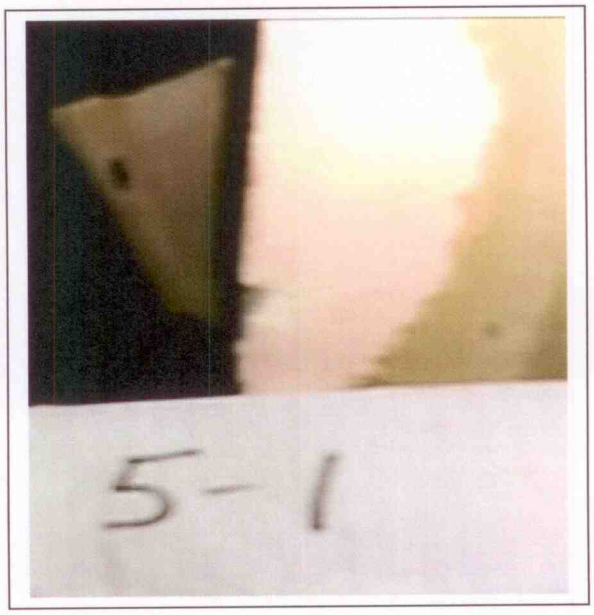


Black paper



Window glaze

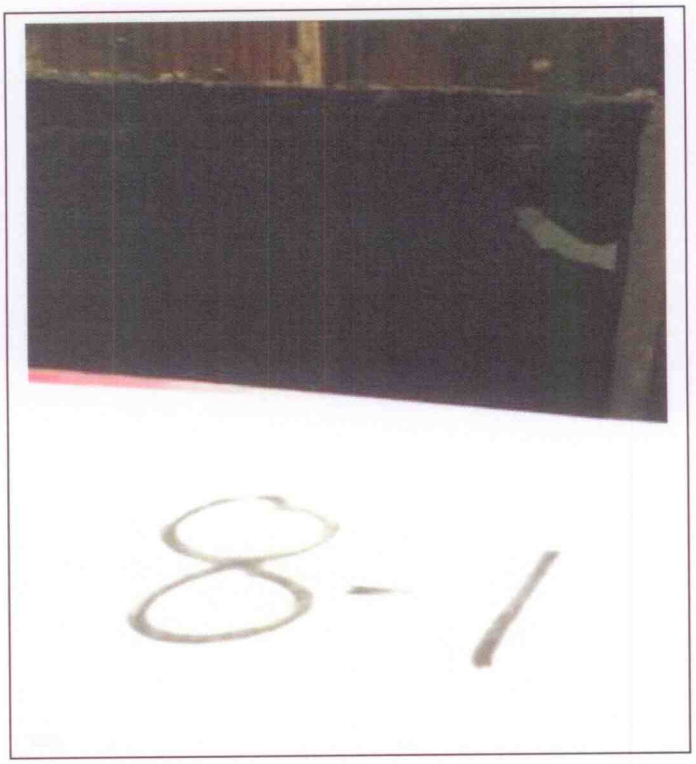
Dry wall



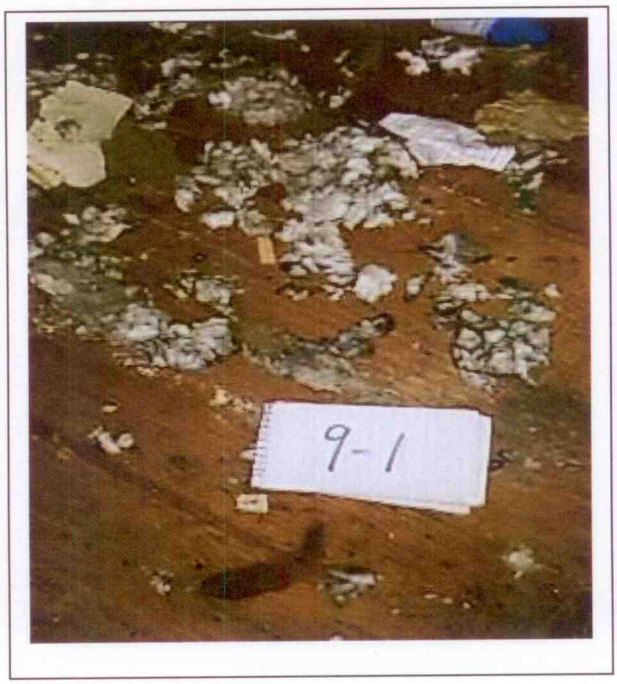
Joint compound

Green floor tile

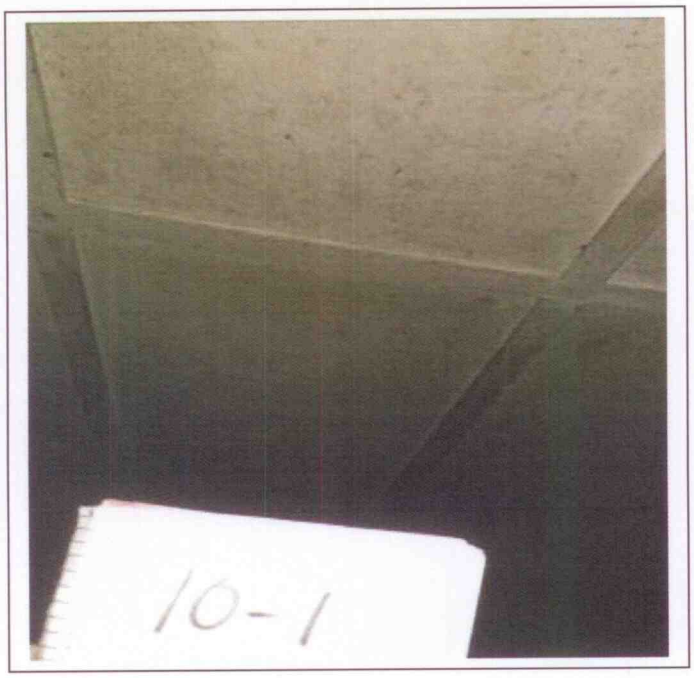
Cementitious panel



Tar paper



Blown-in insulation



Ceiling tile

August 26, 2015

Christopher P Kuettner
Sierra Environmental Group, Inc.
1041 Straight Street
Cincinnati OH 45214

RE: Asbestos Hazard Evaluation Specialist
Certification Number: ES33689
Expiration Date: 10 14 2016

Dear Christopher P Kuettner:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of Health for violation of any of the requirements of 3701-34 of the Ohio Adminstrative Code.

If you have any questions, please call Kathy Butcher, Licensure Specialist, at 614-644-0226.

Sincerely,

Bill Robbins, Section Chief
Bureau of Licensure Operations
Office of Health Assurance and Licensing