



Turn-Key Environmental Consultants, Inc.

790 Barnhart Rd.
Troy, OH 45373

714 Monument Ave.
Dayton, OH 45402

Phone: 937-335-8807
Fax: 937-339-4882

August 31, 2015

Mr. Dennis Zimmer
City of Dayton, Division of Housing Inspection
371 West Second Street, 3rd Floor
Dayton, Ohio 45402

RE: Comprehensive Pre-Demolition Asbestos Survey, NOP TK-7amended, Vacant Residence, 2216 Harding Ave., Dayton, OH, TKEC Project #TK-7aB

Dear Mr. Zimmer:

On August 13, 2015, Mr. Joseph Saunders (Ohio Department of Health Certified Asbestos Hazard Evaluation Specialist #ES34837) of Turn-Key Environmental Consultants, Inc. (TKEC) visited the vacant residence located at 2216 Harding Ave. in Dayton, Ohio (subject property). The purpose of the visit was to perform a pre-demolition asbestos survey of the structure to identify asbestos containing materials (ACMs) located in the structure prior to demolition activities being performed.

EXECUTIVE SUMMARY

On August 13, 2015, Mr. Joseph Saunders (Ohio Department of Health Certified Asbestos Hazard Evaluation Specialist # ES34837) of Turn-Key Environmental Consultants, Inc. (TKEC) performed a comprehensive pre-demolition asbestos inspection of the vacant residence located at 2216 Harding Ave. in Dayton, Ohio. Seventeen (17) samples of suspect materials were collected from the residential structure. The samples were shipped overnight to an accredited laboratory for analysis. Some of the samples were comprised of layers which resulted in the analysis of a total of thirty-one (31) samples. Laboratory analysis indicated that one (1) sample contained 1% or greater asbestos. Although the floor tile/mastic 9" sample was determined to contain asbestos, this material does not have to be abated as this material is a Category 1 Non-Friable material.

Three (3) drywall/joint compound samples contained <1% asbestos, and were subsequently analyzed by EPA PLM 400 Point Count. These samples were determined to contain <0.25% chrysotile asbestos and will not need to be abated.

No other suspect materials were observed in the structure that will require abatement.

DESCRIPTION OF BUILDING SURVEY AND SAMPLING METHODOLOGY

A room-by-room inspection of the house was performed and homogenous materials were identified. Sampling locations were determined in a statistically random manner for surfacing materials, or randomly distributed manner for thermal system insulation that is representative of the homogeneous area. Each bulk sample was collected using cleaned hand tools and placed in a clean, zip-lock plastic bag and labeled with a unique sample identification number. Pertinent information was recorded on a Bulk Sample Log Sheet, including sample identification number, date of collection, 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 shipped via overnight courier to SanAir Technologies Laboratory, Inc. (SanAir), an accredited and recognized laboratory under the National Voluntary Laboratory Accreditation Program (NVLAP) 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 material can be used for qualitative identification of six (6) 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 clients 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. 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 and non-asbestos components. A summary of the bulk samples collected from this structure is included in Table 1 – Bulk Sample Log.

Although the floor tile/mastic 9” sample was determined to contain asbestos, this material does not have to be abated as this material is a Category 1 Non-Friable material.

Three (3) drywall/joint compound samples contained <1% asbestos, and were subsequently analyzed by EPA PLM 400 Point Count. These samples were determined to contain <0.25% chrysotile asbestos and will not need to be abated.

The results of the sample analyses can be found on the laboratory report attached and in Table 2 – Bulk Sample Data Summary. Table 2 also contains the locations, condition, amount, NESHAP category and type of ACM identified in the structure.

RESULTS

TKEC collected samples from wall and ceiling systems, flooring materials, roofing materials, duct insulation, blown-in insulation and window glaze and caulking if it was present. Analytical results confirmed that the following suspect asbestos-containing building materials contain more than 1% asbestos:

- **Linoleum, [Dining Room], [Good], [112 SF]**

No other suspect asbestos-containing building materials that will likely become friable during demolition were identified in the structure.

ESTIMATED ABATEMENT COSTS

TKEC estimates the costs associated with the removal of the confirmed asbestos-containing materials to be as follows:

The estimated costs for asbestos consulting (specifications and on-site monitoring) if requested by the City of Dayton: N/A

ESTIMATED COSTS FOR FRIABLE ACM ABATEMENT

<u>Material</u>	<u>Estimated Quantity</u>	<u>Estimated Unit Costs</u>	<u>Estimated Costs</u>
N/A	N/A	N/A	N/A

The estimated costs for asbestos consulting (specifications and on-site monitoring): \$ N/A

ESTIMATED COSTS FOR NON-FRIABLE ACM LIKELY TO BECOME FRIABLE ABATEMENT

<u>Material</u>	<u>Estimated Quantity</u>	<u>Estimated Unit Costs</u>	<u>Estimated Costs</u>
N/A	N/A	N/A	N/A

The estimated costs for asbestos consulting (specifications and on-site monitoring) if requested by the City of Dayton: N/A

ESTIMATED COSTS FOR NON-FRIABLE ACM ABATEMENT

<u>Material</u>	<u>Estimated Quantity</u>	<u>Estimated Unit Costs</u>	<u>Estimated Costs</u>
Linoleum	112 SF	\$2.00/SF	\$224.00

The estimated costs for asbestos consulting (specifications and on-site monitoring) if requested by the City of Dayton: N/A

Estimated costs are based on prevailing costs in the Midwest for 2015, and do not include costs for planning, permitting, contractor oversight or air monitoring. Actual costs may vary from estimated costs due to contractor workloads, season, or changes in regulatory requirements.

RECOMMENDATIONS

Based on the findings of this asbestos survey and NESHAP regulations, the following recommendations are presented for consideration:

1. Prior to any outside contractor(s) working at the subject structure, the contractor(s) must be notified of the presence of the building materials identified as containing asbestos.
2. Trained workers and supervisors certified by the Ohio Department of Health must be used to remove the identified asbestos-containing building materials using special procedures and protective equipment to ensure that workers are not overexposed to airborne asbestos.
3. Advance notification must be provided to the Regional Air Pollution Control Agency (RAPCA) and the Ohio Department of Health at least ten (10) working days prior to the start of abatement activities.
4. The fact that asbestos containing materials were observed in or on the building should be noted on the demolition notification form along with the name and certification number of the inspector (Joseph D. Saunders, Ohio Department of Health Asbestos Hazard Evaluation Specialist Certification No. ES34837).

TKEC made every effort to locate suspect ACM that may be concealed; however, suspect ACM which may be located behind hard plaster walls or ceilings, hard walled chases, under flooring or

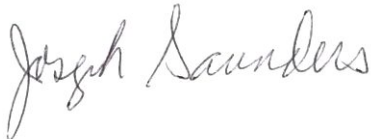
2216 Harding Ave.
August 31, 2015

subflooring, etc., were not assessed or quantified. If through demolition suspect materials are discovered, they should be documented and handled appropriately.

This report is prepared to assist the City of Dayton, construction managers and asbestos abatement contractors in locating ACMs. This report is not intended to be used as a bidding document or project specifications.

Attached are the following TKEC documents: 1) Table I – Bulk Sample Log; 2) Table 2 – Bulk Sample Data Summary; 3) Laboratory Report; 4) Building Sketch/Photographs; and 5) Inspector's Certification. If we can be of further assistance on this or other projects, do not hesitate to call us at (937) 335-8807.

Respectfully submitted,
TURN-KEY ENVIRONMENTAL CONSULTANTS, INC.



Joseph Saunders
Project Manager
ODH Asbestos Hazard Evaluation Specialist
No. ES34837, Exp. Date 6/10/2016

ATTACHMENT 1

Bulk Sample Log

ASBESTOS BULK SAMPLE LOG
Project - 2216 Harding

TKEC Job# TK-7aB

Homogenous Area #	Sample #	Color	Type	Location
1	1-1	tan	drywall/joint compound	dining room - 1st floor - wall
1	1-2	tan	drywall/joint compound	living room - 1st floor - wall
1	1-3	blue	drywall/joint compound	upstairs bedroom
1	1-4	blue	drywall/joint compound	upstairs bedroom
2	2-1	multi	roof shingles (5 layers)	roof
3	3-1	white	drywall w/ skimcoat	kitchen ceiling
4	4-1	white	drywall w/ skimcoat	rear entry ceiling
5	5-1	gray/cream pattern	linoleum flooring	bathroom- 1st floor (8x5)
6	6-1	gray	linoleum flooring w/ 12" floor tile	dining room (14x8)
7	7-1	cream pattern	linoleum flooring	living room (13x16)
8	8-1	gray	linoleum flooring	entryway (3x5)
9	9-1	cream pattern	linoleum flooring	1st floor bedroom (11x11)
10	10-1	white	ceiling tile (12")	living room (13x16)
10	10-2	white	ceiling tile (12")	1st floor bedroom (11x11)
11	11-1	black	adhesive (dark brown)	living room wall on paneling
12	12-1	cream	linoleum flooring	kitchen
13	13-1	cream	linoleum flooring	rear entry way (8x20)

ATTACHMENT 2

Bulk Sample Data Summary

2216 Harding Ave.
 Pre-Demolition Asbestos Survey
 Table I - Bulk Sample Data Summary
 Project: TK-7aB

Homogeneous Area					Quantity & Condition			
Sample Description (Material Type)	Sample Location	NSHAP Category	ACM Type	Bulk Sample No.	Good	Fair	Poor	Asbestos Content
Drywall/Joint Compound - Drywall	Dining Room			1-1				NAD
Drywall/Joint Compound - Joint Compound	Dining Room			1-1				<1% Chrysotile
Drywall/Joint Compound - Drywall	Living Room Wall			1-2				NAD
Drywall/Joint Compound - Joint Compound	Living Room Wall			1-2				<1% Chrysotile
Drywall/Joint Compound - Drywall	Upstairs Bedroom			1-3				NAD
Drywall/Joint Compound - Joint Compound	Upstairs Bedroom			1-3				NAD
Drywall/Joint Compound - Drywall	Upstairs Bedroom			1-4				NAD
Drywall/Joint Compound - Joint Compound	Upstairs Bedroom			1-4				<1% Chrysotile
Roofing Shingles (5 layers)	Roof			2-1				NAD
Roofing Shingles (5 layers)	Roof			2-1				NAD
Roofing Shingles (5 layers)	Roof			2-1				NAD
Roofing Shingles (5 layers)	Roof			2-1				NAD
Roofing Shingles (5 layers)	Roof			2-1				NAD

2216 Harding Ave.
Pre-Demolition Asbestos Survey
Table I - Bulk Sample Data Summary
Project: TK-7aB

Homogeneous Area					Quantity & Condition			
Sample Description (Material Type)	Sample Location	NSHAP Category	ACM Type	Bulk Sample No.	Good	Fair	Poor	Asbestos Content
Drywall/Skim Coat - Drywall	Kitchen Ceiling			3-1				NAD
Drywall/Skim Coat - Skim Coat	Kitchen Ceiling			3-1				NAD
Drywall/Skim Coat - Drywall	Kitchen Ceiling			4-1				NAD
Drywall/Skim Coat - Skim Coat	Kitchen Ceiling			4-1				NAD
Linoleum	1st Floor Bathroom			5-1				NAD
Linoleum/12" Tile - Linoleum	Dining Room			6-1				NAD
Linoleum/12" Tile - Mastic	Dining Room			6-1				NAD
Linoleum/12" Tile - Floor Tile	Dining Room	Cat 1 Non Friable	Misc	6-1	112 SF			3% Chrysotile
Linoleum/12" Tile - Mastic	Dining Room			6-1				NAD
Linoleum	Living Room			7-1				NAD
Linoleum - Linoleum	Entryway			8-1				NAD
Linoleum - Mastic	Entryway			8-1				NAD
Linoleum	1st Floor			9-1				NAD
Ceiling Tile 12"	Living Room			10-1				NAD
Ceiling Tile 12"	1st Floor Bedroom			10-2				NAD
Adhesive on Wall	Living Room			11-1				NAD

2216 Harding Ave.
 Pre-Demolition Asbestos Survey
 Table I - Point Count Sample Data Summary
 Project: TK-7aB

Homogeneous Area					Quantity & Condition			
Sample Description (Material Type)	Sample Location	NSHAP Category	ACM Type	Bulk Sample No.	Good	Fair	Poor	Asbestos Content
Drywall/Joint Compound - Joint Compound	Dining Room			1-1				<0.25% Chrysotile
Drywall/Joint Compound - Joint Compound	Living Room Wall			1-2				<0.25% Chrysotile
Drywall/Joint Compound - Joint Compound	Upstairs Bedroom			1-4				<0.25% Chrysotile

ATTACHMENT 3

Laboratory Data

SanAir Technologies Laboratory

Analysis Report

prepared for

**Turn-Key Environmental
Consultants, Inc.**

Report Date: 8/25/2015
Project Name: 2216 Harding
Project #: TK-7aB
SanAir ID#: 15025205



NVLAP LAB CODE 200870-0



Certification # 652931



License # LAB0166



804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

SanAir ID Number

15025205

FINAL REPORT

Name: Turn-Key Environmental Consultants, Inc.
Address: 790 Barnhart Road
Troy, OH 45373

Project Number: TK-7aB
P.O. Number:
Project Name: 2216 Harding

Collected Date: 8/13/2015
Received Date: 8/18/2015 9:50:00 AM
Report Date: 8/25/2015 6:09:23 PM
Analyst: Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
1-1 / 15025205-001 Drywall Dining Room - 1st Floor - Wall, Drywall	White Non-Fibrous Heterogeneous	10% Cellulose	90% Other	None Detected
1-1 / 15025205-001 Drywall Dining Room - 1st Floor - Wall, Joint Compound	Tan Non-Fibrous Heterogeneous		100% Other	< 1% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
1-2 / 15025205-002 Drywall Living Room - 1st Floor - Wall, Drywall	White Non-Fibrous Heterogeneous	10% Cellulose	90% Other	None Detected
1-2 / 15025205-002 Drywall Living Room - 1st Floor - Wall, Joint Compound	Beige Non-Fibrous Heterogeneous		100% Other	< 1% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
1-3 / 15025205-003 Drywall/ Joint Compound Upstairs Bedroom, Drywall	White Non-Fibrous Heterogeneous	10% Cellulose	90% Other	None Detected
1-3 / 15025205-003 Drywall/ Joint Compound Upstairs Bedroom, Joint Compound	White Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
1-4 / 15025205-004 Drywall/ Joint Compound Upstairs Bedroom, Drywall	White Non-Fibrous Heterogeneous		100% Other	None Detected
1-4 / 15025205-004 Drywall/ Joint Compound Upstairs Bedroom, Joint Compound	White Non-Fibrous Heterogeneous		100% Other	< 1% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
2-1 / 15025205-005 Roof Shingles (5 Layers) Roof, Shingle	White Non-Fibrous Heterogeneous		100% Other	None Detected
2-1 / 15025205-005 Roof Shingles (5 Layers) Roof, Shingle	Grey Non-Fibrous Heterogeneous		100% Other	None Detected
2-1 / 15025205-005 Roof Shingles (5 Layers) Roof, Shingle	White Non-Fibrous Heterogeneous		100% Other	None Detected
2-1 / 15025205-005 Roof Shingles (5 Layers) Roof, Shingle	Black Non-Fibrous Heterogeneous		100% Other	None Detected
2-1 / 15025205-005 Roof Shingles (5 Layers) Roof, Felt Paper	Black Fibrous Heterogeneous	85% Cellulose	15% Other	None Detected

Certification

Signature:

Date: 8/25/2015

Reviewed:

Date: 8/25/2015



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

SanAir ID Number

15025205

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Project Number: TK-7aB
P.O. Number:
Project Name: 2216 Harding

Collected Date: 8/13/2015
Received Date: 8/18/2015 9:50:00 AM
Report Date: 8/25/2015 6:09:23 PM
Analyst: Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116


SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
3-1 / 15025205-006 Drywall W/ Skim Coat Kitchen Ceiling, Drywall	White Non-Fibrous Heterogeneous	10% Cellulose	90% Other	None Detected
3-1 / 15025205-006 Drywall W/ Skim Coat Kitchen Ceiling, Skim Coat	White Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
4-1 / 15025205-007 Drywall W/ Skim Coat Rear Entry Ceiling, Drywall	White Non-Fibrous Heterogeneous		100% Other	None Detected
4-1 / 15025205-007 Drywall W/ Skim Coat Rear Entry Ceiling, Skim Coat	White Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
5-1 / 15025205-008 Linoleum Flooring Bathroom - 1st Floor (8x5)	Grey Fibrous Heterogeneous	65% Cellulose	35% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
6-1 / 15025205-009 Linoleum Flooring W/ 12" Floor Tile Dining Room (14x8), Linoleum	Grey Fibrous Heterogeneous	60% Cellulose	40% Other	None Detected
6-1 / 15025205-009 Linoleum Flooring W/ 12" Floor Tile Dining Room (14x8), Mastic	Yellow Non-Fibrous Heterogeneous		100% Other	None Detected
6-1 / 15025205-009 Linoleum Flooring W/ 12" Floor Tile Dining Room (14x8), Floor Tile	Green Non-Fibrous Heterogeneous		97% Other	3% Chrysotile
6-1 / 15025205-009 Linoleum Flooring W/ 12" Floor Tile Dining Room (14x8), Mastic	Yellow Non-Fibrous Heterogeneous		100% Other	None Detected

Certification

Signature: 

Date: 8/25/2015

Reviewed: 

Date: 8/25/2015



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Report Date: 8/25/2015 6:09:23 PM
Analyst: Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
7-1 / 15025205-010 Linoleum Flooring Living Room (13x16)	Cream Fibrous Heterogeneous	65% Cellulose	35% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
8-1 / 15025205-011 Linoleum Flooring Entryway (3x5), Linoleum	Grey Non-Fibrous Heterogeneous	30% Cellulose	70% Other	None Detected
8-1 / 15025205-011 Linoleum Flooring Entryway (3x5), Mastic	Yellow Non-Fibrous Heterogeneous		100% Other	None Detected


SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
9-1 / 15025205-012 Linoleum Flooring 1st Floor Bedroom (11x11)	Cream Fibrous Heterogeneous	65% Cellulose	35% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
10-1 / 15025205-013 Ceiling Tile (12") Living Room (13x16)	White Fibrous Heterogeneous	90% Cellulose	10% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
10-2 / 15025205-014 Ceiling Tile (12") 1st Floor Bedroom (11x11)	White Fibrous Heterogeneous	90% Cellulose	10% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
11-1 / 15025205-015 Adhesive Living Room Wall On Paneling	Brown Non-Fibrous Heterogeneous		100% Other	None Detected

Certification

Signature: 

Date: 8/25/2015

Reviewed: 

Date: 8/25/2015



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Analyst: Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
12-1 / 15025205-016 Linoleum Flooring Kitchen	Cream Non-Fibrous Heterogeneous	40% Cellulose	60% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
13-1 / 15025205-017 Linoleum Flooring Rear Entryway (8x20)	Cream Non-Fibrous Heterogeneous	40% Cellulose	60% Other	None Detected

Certification

Signature: 

Date: 8/25/2015

Reviewed: 

Date: 8/25/2015



1551 Oakbridge Drive Suite B
 Powhatan, VA 23139
 804-897-1177 / 888-895-1177
 Fax 804-897-0070
 www.sanair.com

**Asbestos
Chain of Custody**

SanAir ID Number
 15025205

Company: Turn-Key Environmental Consultants, Inc.		Project #: TK-7a.B	Collected by: J. Saunders
Address: 790 BarnHart Rd.		Project Name: 2216 Harding	Phone #: 937-335-8807
City, St., Zip: Troy, OH 45373		Date Collected: 8/13/15	Fax #:
State of Collection: Ohio	Account#:	P.O. Number:	Email: TKEC@Turn-keyenvironmental.com

Bulk			Air			Soil/Vermiculite		
ABB	PLM EPA 600/R-93/116	<input checked="" type="checkbox"/>	ABA	PCM NIOSH 7400	<input type="checkbox"/>	ABSE	PLM EPA 600/R-93/116 (Qual.)	<input type="checkbox"/>
	Positive Stop	<input type="checkbox"/>	ABA-2	OSHA w/ TWA*	<input type="checkbox"/>	ABSP	PLM CARB 435 (LOD <1%)	<input type="checkbox"/>
ABEPA	PLM EPA 400 Point Count	<input type="checkbox"/>	ABTEM	TEM AHERA	<input type="checkbox"/>	ABSP1	PLM CARB 435 (LOD 0.25%)	<input type="checkbox"/>
ABB1K	PLM EPA 1000 Point Count	<input type="checkbox"/>	ABATN	TEM NIOSH 7402	<input type="checkbox"/>	ABSP2	PLM CARB 435 (LOD 0.1%)	<input type="checkbox"/>
ABBEN	PLM EPA NOB	<input type="checkbox"/>	ABT2	TEM Level II	<input type="checkbox"/>			
ABBCH	TEM Chatfield	<input type="checkbox"/>						
ABBTM	TEM EPA NOB	<input type="checkbox"/>						
Water			New York ELAP			Dust		
ABHE	EPA 100.2	<input type="checkbox"/>	PLM NY	PLM EPA 600/M4-82-020	<input type="checkbox"/>	ABWA	TEM Wipe ASTM D-6480	<input type="checkbox"/>
			ABEPA2	NY ELAP 198.1	<input type="checkbox"/>	ABDMV	TEM Microvac ASTM D-5755	<input type="checkbox"/>
			ABENY	NY ELAP 198.6 PLM NOB	<input type="checkbox"/>			
			ABBNY	NY ELAP 198.4 TEM NOB	<input type="checkbox"/>	Matrix	Other	<input type="checkbox"/>

Turn Around Times	3 HR (4 HR TEM) <input type="checkbox"/>	6 HR (8HR TEM) <input type="checkbox"/>	12 HR <input type="checkbox"/>	24 HR <input type="checkbox"/>
	2 Days <input type="checkbox"/>	3 Days <input type="checkbox"/>	4 Days <input type="checkbox"/>	5 Days <input checked="" type="checkbox"/>

Special Instructions

Sample #	Sample Identification/Location	Volume or Area	Sample Type	Flow Rate*	Time* Start - Stop
	(See Attached Bulk Sample Log)				

Relinquished by	Date	Time	Received by	Date	Time
J. Saunders	8/17/15	1700	MC	AUG 18 2015	9:50AM

Unless scheduled, the turn around time for all samples received after 3 pm EST Friday will begin at 8 am Monday morning. Weekend or Holiday work must be scheduled ahead of time and is charged for rush turn around time. Work with standard turn around time sent Priority Overnight and Billed to Recipient will be charged a \$10 shipping fee.

15025205

ASBESTOS BULK SAMPLE LOG

Project - 2216 Harding

TKEC Job# TK-7aB

Hortogenous Area #	Sample #	Color	Type	Location
1	1-1	tan	drywall/joint compound	dining room - 1st floor - wall
1	1-2	tan	drywall/joint compound	living room - 1st floor - wall
1	1-3	blue	drywall/joint compound	upstairs bedroom
1	1-4	blue	drywall/joint compound	upstairs bedroom
2	2-1	multi	roof shingles (5 layers)	roof
3	3-1	white	drywall w/ skimcoat	kitchen ceiling
4	4-1	white	drywall w/ skimcoat	rear entry ceiling
5	5-1	gray/cream pattern	linoleum flooring	bathroom- 1st floor (8x5)
6	6-1	gray	linoleum flooring w/ 12" floor tile	dining room (14x8)
7	7-1	cream pattern	linoleum flooring	living room (13x16)
8	8-1	gray	linoleum flooring	entryway (3x5)
9	9-1	cream pattern	linoleum flooring	1st floor bedroom (11x11)
10	10-1	white	ceiling tile (12")	living room (13x16)
10	10-2	white	ceiling tile (12")	1st floor bedroom (11x11)
11	11-1	black	adhesive (dark brown)	living room wall on paneling
12	12-1	cream	linoleum flooring	kitchen
13	13-1	cream	linoleum flooring	rear entry way (8x20)

9:50 AM

AUG 18 2015

AC

SanAir Technologies Laboratory

Analysis Report

prepared for

**Turn-Key Environmental
Consultants, Inc.**

Report Date: 8/28/2015
Project Name: 2216 Harding
Project #: TK-7aB
SanAir ID#: 15026328



NVLAP LAB CODE 200870-0



Certification # 652931



License # LAB0166



804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

SanAir ID Number

15026328

FINAL REPORT

Name: Turn-Key Environmental Consultants, Inc.
Address: 790 Barnhart Road
Troy, OH 45373

Project Number: TK-7aB
P.O. Number:
Project Name: 2216 Harding

Collected Date: 8/13/2015
Received Date: 8/26/2015 8:00:00 AM
Report Date: 8/28/2015 3:44:51 PM
Analyst: Vaughan, Nathaniel


Asbestos Bulk EPA PLM 400 Point Count

SanAir ID / Description	Stereoscopic Appearance	% Fibrous	Components		Asbestos Fibers
			% Non-Fibrous		
1-1 / 15026328-001 Drywall Dining Room - 1st Floor - Wall, Joint Compound	Tan Non-Fibrous Heterogeneous		100%	Other	< 0.25% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	% Fibrous	Components		Asbestos Fibers
			% Non-Fibrous		
1-2 / 15026328-002 Drywall Living Room - 1st Floor - Wall, Joint Compound	Beige Non-Fibrous Heterogeneous		100%	Other	< 0.25% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	% Fibrous	Components		Asbestos Fibers
			% Non-Fibrous		
1-4 / 15026328-003 Drywall Upstairs Bedroom, Joint Compound	White Non-Fibrous Heterogeneous		100%	Other	< 0.25% Chrysotile

Certification

Signature: 

Date: 8/28/2015

Reviewed: 

Date: 8/28/2015

15026328

Maria E. Coker

From: Sandra C. Sobrino
Sent: Wednesday, August 26, 2015 11:15 AM
To: Maria E. Coker
Cc: Jonathan G. Tallert
Subject: FW: Point Count Analyses

400 point count.

Sandra Sobrino

From: Turn-Key Environmental [mailto:tkec@turn-keyenvironmental.com]
Sent: Tuesday, August 25, 2015 9:30 PM
To: Sandra C. Sobrino <ssobrino@sanair.com>
Subject: Point Count Analyses

Dear Sandra,

Please run EPA PLM 499 Point Count analysis on the following samples:

TK-7aB -
15025205-001
15025205-002
15025205-004

TK-7aC -
15025209-001
15025209-003

TK-7aD -
15025207-001
15025207-002
15025207-003
15025207-004

TK-7aG -
15025199-001
15025199-002
15025199-003

TK-7aH - 15025195-007

TK-7aI -
15025204-001
15025204-002
15025204-003
15025204-004
15025204-005

TK-7aJ -

MC

AUG 26 2015

*HHS, K
8:09AM*

15026328

15025198-003
15025198-004

TK-7aK -
15025197-001
15025197-002
15025197-003
15025197-004
15025197-005
15025197-006
15025197-007
15025197-012
15025197-013

If possible, I would like 2 day TAT.

Thank you,

Joe Saunders

--

Turn-Key Environmental Consultants, Inc.
790 Barnhart Road
Troy, Ohio 45373
937-335-8807
www.turn-keyenvironmental.com



1551 Oakbridge Drive Suite B
 Powhatan, VA 23139
 804-897-1177 / 888-895-1177
 Fax 804-897-0070
 www.sanair.com

**Asbestos
 Chain of Custody**

SanAir ID Number
 15025205

15026328

Company: Turn-Key Environmental Consultants, Inc.	Project #: TK-7a.B	Collected by: J. Saunders
Address: 790 BarnHart Rd.	Project Name: 2216 Harding	Phone #: 937-335-8807
City, St., Zip: Troy, OH 45373	Date Collected: 8/13/15	Fax #:
State of Collection: Ohio	Account#:	P.O. Number:
		Email: TKEC@Turn-keyenvironmental.com

Bulk			Air			Soil/Vermiculite		
ABB	PLM EPA 600/R-93/116	<input checked="" type="checkbox"/>	ABA	PCM NIOSH 7400	<input type="checkbox"/>	ABSE	PLM EPA 600/R-93/116 (Qual.)	<input type="checkbox"/>
	Positive Stop	<input type="checkbox"/>	ABA-2	OSHA w TWA*	<input type="checkbox"/>	ABSP	PLM CARB 435 (LOD <1%)	<input type="checkbox"/>
ABEPA	PLM EPA 400 Point Count	<input type="checkbox"/>	ABTEM	TEM AHERA	<input type="checkbox"/>	ABSP1	PLM CARB 435 (LOD 0.25%)	<input type="checkbox"/>
ABB1K	PLM EPA 1000 Point Count	<input type="checkbox"/>	ABATN	TEM NIOSH 7402	<input type="checkbox"/>	ABSP2	PLM CARB 435 (LOD 0.1%)	<input type="checkbox"/>
ABBN	PLM EPA NOB	<input type="checkbox"/>	ABT2	TEM Level II	<input type="checkbox"/>			
ABBCH	TEM Chatfield	<input type="checkbox"/>						
ABBTM	TEM EPA NOB	<input type="checkbox"/>						
Water			New York ELAP			Dust		
ABHE	EPA 100.2	<input type="checkbox"/>	PLM NY	PLM EPA 600/M4-82-020	<input type="checkbox"/>	ABWA	TEM Wipe ASTM D-6480	<input type="checkbox"/>
			ABEPA2	NY ELAP 198.1	<input type="checkbox"/>	ABDMV	TEM Microvac ASTM D-5755	<input type="checkbox"/>
			ABENY	NY ELAP 198.6 PLM NOB	<input type="checkbox"/>			
			ABBNY	NY ELAP 198.4 TEM NOB	<input type="checkbox"/>	Matrix	Other	<input type="checkbox"/>

Turn Around Times	3 HR (4 HR TEM) <input type="checkbox"/>	6 HR (8HR TEM) <input type="checkbox"/>	12 HR <input type="checkbox"/>	24 HR <input type="checkbox"/>
	2 Days <input type="checkbox"/>	3 Days <input type="checkbox"/>	4 Days <input type="checkbox"/>	5 Days <input checked="" type="checkbox"/>

Special Instructions

Sample #	Sample Identification/Location	Volume or Area	Sample Type	Flow Rate*	Time* Start - Stop
	(See Attached Bulk Sample Log)				

Relinquished by	Date	Time	Received by	Date	Time
J. Saunders	8/17/15	1700	MC	AUG 18 2015	9:50AM

Unless scheduled, the turn around time for all samples received after 3 pm EST Friday will begin at 8 am Monday morning. Weekend or Holiday work must be scheduled ahead of time and is charged for rush turn around time. Work with standard turn around time sent Priority Overnight and Billed to Recipient will be charged a \$10 shipping fee.

Page 1 of 1

MC AUG 26 2015 8:00AM

15026328

15025205

ASBESTOS BULK SAMPLE LOG

Project - 2216 Harding

TKEC Job# TK-7aB

Homogenous Area #	Sample #	Color	Type	Location
1	1-1	tan	drywall/joint compound	dining room - 1st floor - wall
1	1-2	tan	drywall/joint compound	living room - 1st floor - wall
1	1-3	blue	drywall/joint compound	upstairs bedroom
1	1-4	blue	drywall/joint compound	upstairs bedroom
2	2-1	multi	roof shingles (5 layers)	roof
3	3-1	white	drywall w/ skimcoat	kitchen ceiling
4	4-1	white	drywall w/ skimcoat	rear entry ceiling
5	5-1	gray/cream pattern	linoleum flooring	bathroom- 1st floor (8x5)
6	6-1	gray	linoleum flooring w/ 12" floor tile	dining room (14x8)
7	7-1	cream pattern	linoleum flooring	living room (13x16)
8	8-1	gray	linoleum flooring	entryway (3x5)
9	9-1	cream pattern	linoleum flooring	1st floor bedroom (11x11)
10	10-1	white	ceiling tile (12")	living room (13x16)
10	10-2	white	ceiling tile (12")	1st floor bedroom (11x11)
11	11-1	black	adhesive (dark brown)	living room wall on paneling
12	12-1	cream	linoleum flooring	kitchen
13	13-1	cream	linoleum flooring	rear entry way (8x20)

AC

AUG 18 2015

9:50AM

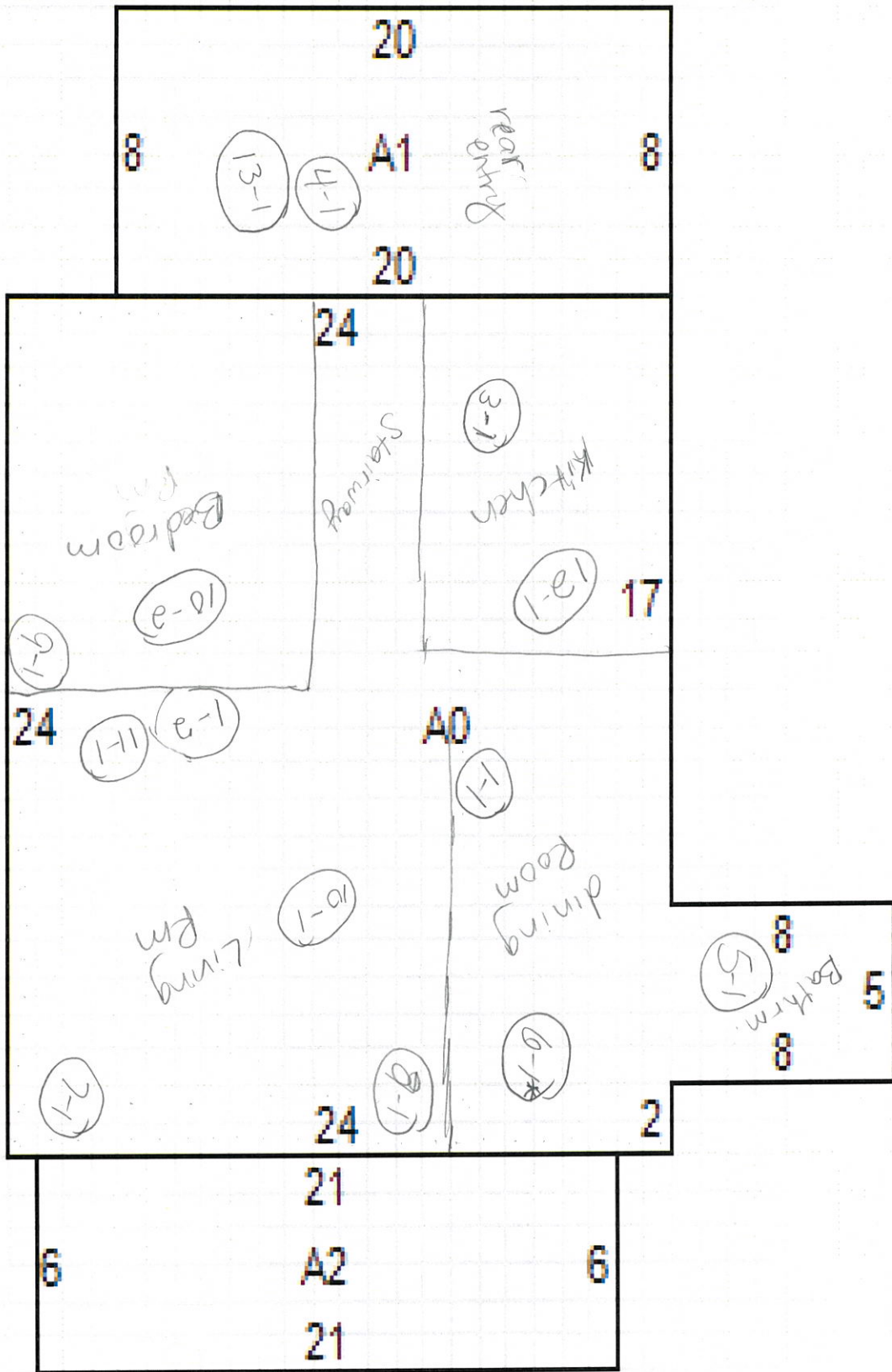
AC

AUG 26 2015

9:00AM

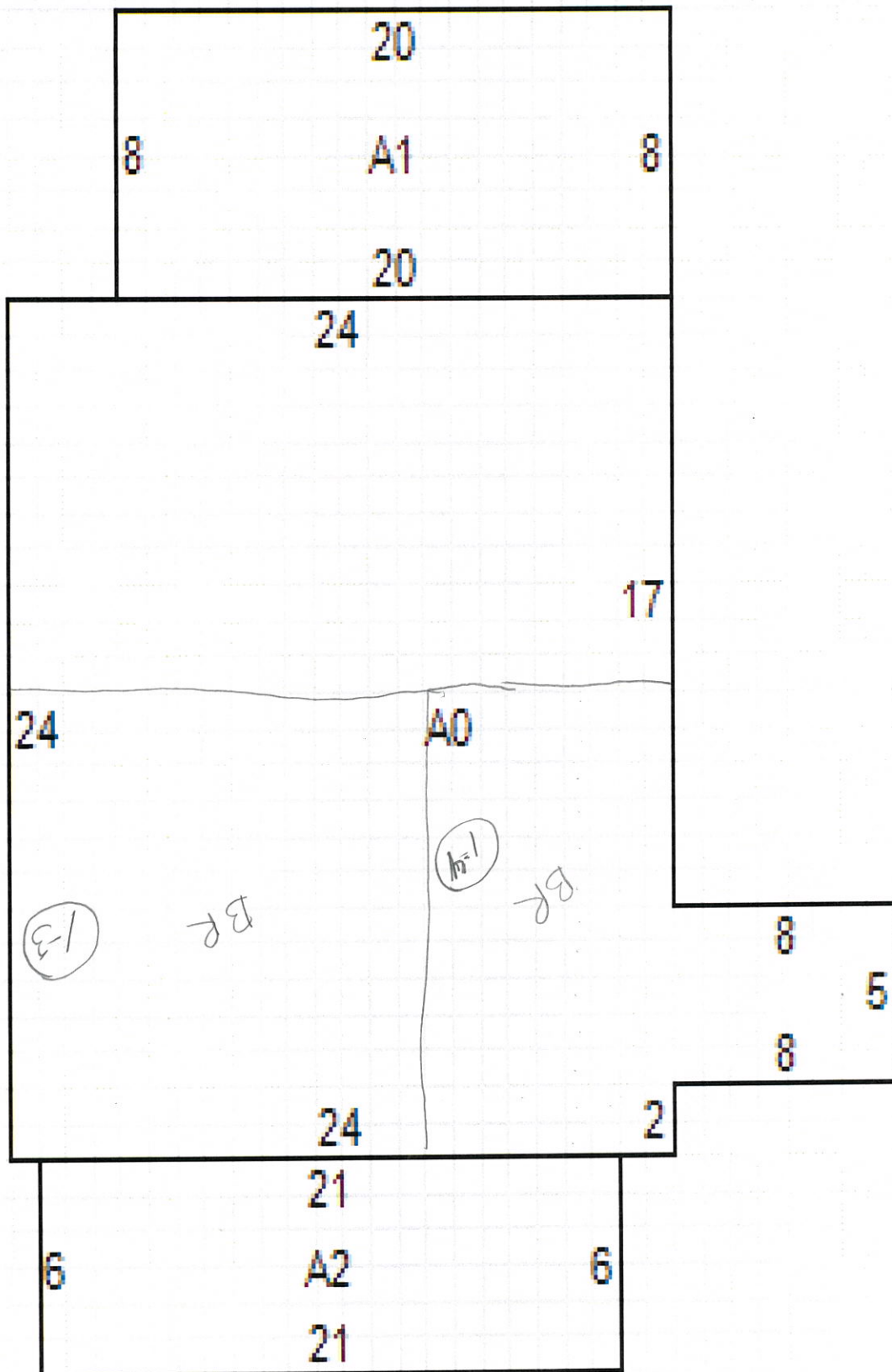
ATTACHMENT 4

Site Sketch/Photographs



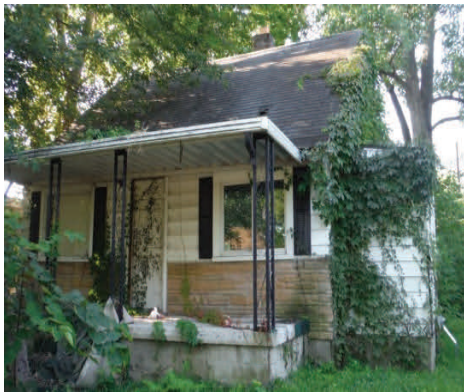
1-1 Approximate
Sample Location
1-1* Asbestos > 1%

Floor 1
2216 Harding Ave.
TK-7aB

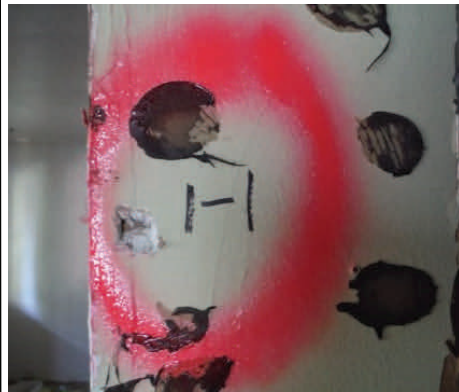


1-1 Approximate
Sample Location
1-1* Asbestos > 1%

Floor 2
2216 Harding Ave.
TK-7aB



2216 Harding Ave.



Sample 1-1 Drywall/Joint Compound



Sample 1-2 Drywall/Joint Compound



Sample 1-3 Drywall/Joint Compound



Sample 1-4 Drywall/Joint Compound



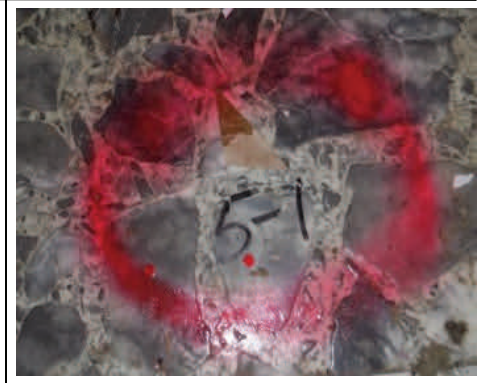
Sample 2-1 Roofing Shingles



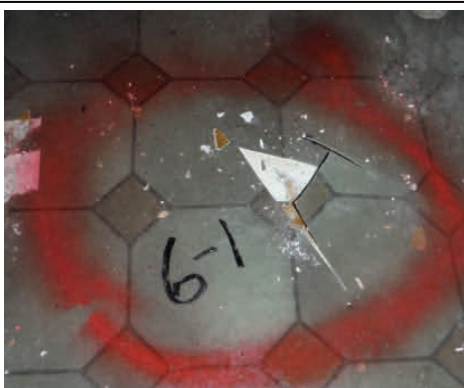
Sample 3-1 Drywall w/ Skim Coat



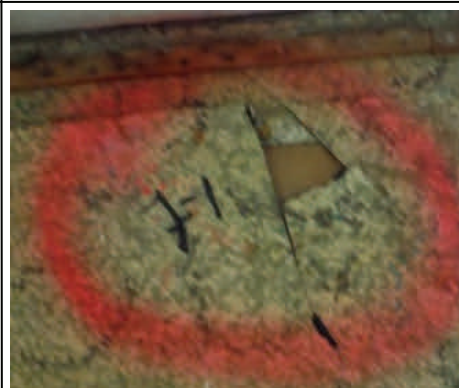
Sample 4-1 Drywall w/ Skim Coat



Sample 5-1 Linoleum Flooring



Sample 6-1 Linoleum/12" Floor Tile



Sample 7-1 Linoleum Flooring



Sample 8-1 Linoleum Flooring



Sample 9-1 Linoleum Flooring



Sample 10-1, 12" Ceiling Tile



Sample 10-2 12" Ceiling Tile



Sample 11-1 Adhesive



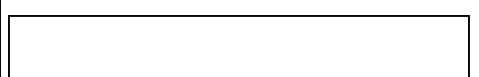
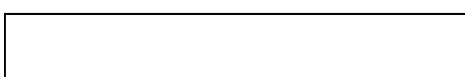
Sample 12-1 Linoleum Flooring



Duct work in Basement



Duct work in Basement



ATTACHMENT 5

Inspector's Certification



TSI Training Services International

Asbestos Building Inspector Refresher

Certificate

This is to certify

Joseph D. Saunders

XXXX-XX-6484



has attended and successfully completed the Asbestos Hazard Emergency Response Act mandatory course for the Asbestos Building Inspector Refresher and has passed an examination in that course with a minimum score of 70% or better. Training was in accordance with 40 CFR Part 763 (AHERA). The above student received the requisite training for asbestos accreditation under Title II of the Toxic Substances Control Act and State of Indiana requirements under 326 IAC 18-2 and Chapter 3701-34 Ohio Administrative Code.

Training Manager

4/30/16

Expiration Date

4/30/15

Date(s) of Course

4/30/15

Examination Date

Columbus, OH

Course Location

TSI

33150 Lakeland Blvd.
Cleveland, OH 44095
1-866-666-8438

15 TSI 58782 ir



TSI Training Services International

Asbestos Management Planner Refresher

Certificate

This is to certify

Joseph D. Saunders

XXXX-XX-6484



has attended and successfully completed the Asbestos Hazard Emergency Response Act mandatory course for the Asbestos Management Planner Refresher and has passed an examination in that course with a minimum score of 70% or better. Training was in accordance with 40 CFR Part 763 (AHERA). The above student received the requisite training for asbestos accreditation under Title II of the Toxic Substances Control Act and State of Indiana requirements under 326 IAC 18-2 and Chapter 3701-34 Ohio Administrative Code.

4/30/16

4/30/15

4/30/15

Columbus, OH

Training Manager

Expiration Date

Date(s) of Course

Examination Date

Course Location

TSI

33150 Lakeland Blvd.
Cleveland, OH 44095
1-866-666-8438

15 TSI 58791 mpr



OHIO DEPARTMENT OF HEALTH

246 North High Street
Columbus, Ohio 43215

614/466-3543
www.odh.ohio.gov

John R. Kasich/Governor

Richard Hodges/Director of Health

June 11, 2015

Joseph D Saunders
3072 Southdale Drive #2
Kettering OH 45409

RE: Asbestos Hazard Evaluation Specialist
Certification Number: ES34837
Expiration Date: 06/10/2016

Dear Joseph D Saunders:

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 Administrative 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

State of Ohio
Department of Health
Asbestos Program

Asbestos Hazard Evaluation Specialist



Joseph D Saunders
3072 Southdale Drive #2
Kettering OH 45409

DOB: 02/09/1956 Certification Number: **ES34837** Expiration Date: **06/10/2016**

This certification is issued pursuant to Chapter 3710 of the Revised Code and 3701-34 of the Ohio Administrative Code Certification Card is not valid if altered