



*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

October 26, 2015

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

RE: Comprehensive Pre-Demolition Asbestos Survey, NOP TK-20, Vacant Residence, 1812 Wayne Ave., Dayton, OH, TKEC Project #TK-20J

Dear Mr. Zimmer:

On October 14, 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 1812 Wayne 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 October 14, 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 1812 Wayne Ave. in Dayton, Ohio. Please note that at the time of our inspection, most of the roof was missing as a result of a structure fire. Fifteen (15) 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 twenty-five (25) samples. Laboratory analysis indicated that seven (7) samples contained 1% or greater asbestos. Although the three (3) samples of linoleum/mastic were determined to contain asbestos, these materials do not have to be abated as these materials are Category 1 Non-Friable materials.

Two (2) samples of duct wrap representing approximately 250 LF were determined to contain asbestos and must be abated prior to demolition. One (1) sample of transite representing approximately 32 SF was determined to contain asbestos and must be abated prior to demolition.

One (1) window glaze sample contained >1% asbestos, but <10% asbestos, and was subsequently analyzed by EPA PLM 400 Point Count. This sample was determined to contain 2% chrysotile asbestos. Six (6) windows in the house will need to be abated prior to demolishing the structure.

The estimated cost for abating the identified material is \$1,903.00.

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 three (3) samples of linoleum/mastic were determined to contain asbestos, these materials do not have to be abated as these materials are Category 1 Non-Friable materials.

Two (2) samples of duct wrap representing approximately 250 LF were determined to contain asbestos and must be abated prior to demolition. One (1) sample of transite representing approximately 32 SF was determined to contain asbestos and must be abated prior to demolition.

One (1) window glaze sample contained >1% asbestos, but <10% asbestos, and was subsequently analyzed by EPA PLM 400 Point Count. This sample was determined to contain 2% chrysotile asbestos. Six (6) windows in the house will need to be abated prior to demolishing the structure.

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/Mastic, [Kitchen], [Fair], [180 SF]**
- **Duct Wrap, [Throughout Structure], [Fair], [250 LF]**
- **Transite, [Basement], [Fair], [32 SF]**
- **Window Glaze, [Throughout Structure], [Fair], [6 Windows]**

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**

<b><u>Material</u></b>	<b><u>Estimated Quantity</u></b>	<b><u>Estimated Unit Costs</u></b>	<b><u>Estimated Costs</u></b>
<b>Duct Wrap</b>	<b>250 LF</b>	<b>\$3.50/SF</b>	<b>\$875.00</b>
<b>Transite</b>	<b>32 SF</b>	<b>\$4.00/SF</b>	<b>\$128.00</b>
<b>Window Glazing</b>	<b>6 Windows</b>	<b>\$150.00/ea</b>	<b>\$900.00</b>

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**

<b><u>Material</u></b>	<b><u>Estimated Quantity</u></b>	<b><u>Estimated Unit Costs</u></b>	<b><u>Estimated Costs</u></b>
<b>Linoleum/Mastic</b>	<b>180 SF</b>	<b>\$3.50/SF</b>	<b>\$630.00</b>

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.

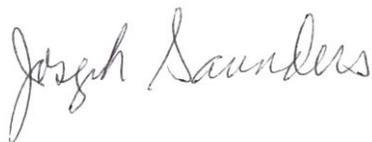
2. Trained workers and supervisors certified by the Ohio Department of Health must be used to remove the identified asbestos-containing building materials using special procedures and protective equipment to ensure that workers are not overexposed to airborne asbestos.
3. Advance notification must be 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 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**



# **ATTACHMENT 2**

## **Bulk Sample Data Summary**

**1812 Wayne**  
**Pre-Demolition Asbestos Survey**  
**Table I - Bulk Sample Data Summary**

**Project TK-20J**

Homogeneous Area					Quantity & Condition			
Sample Description (Material Type)	Sample Location	NSHAP Category	ACM Type	Bulk Sample No.	Good	Fair	Poor	Asbestos Content
<b>Linoleum - Linoleum</b>	<b>Kitchen</b>	<b>Cat 1 Non Friable</b>	<b>Misc</b>	<b>1-1</b>		<b>180 SF</b>		<b>20% Chrysotile</b>
Linoleum - Mastic	Kitchen			1-1				NAD
<b>Linoleum - Linoleum</b>	<b>Kitchen</b>			<b>1-2</b>				<b>25% Chrysotile</b>
<b>Linoleum - Mastic</b>	<b>Kitchen</b>			<b>1-2</b>				<b>&lt; 1 % Chrysotile</b>
Ceiling Tile 12"	Kitchen			2-1				NAD
Plaster/Skim Coat - Plaster	Dining Room			3-1				NAD
Plaster/Skim Coat - Skim Coat	Dining Room			3-1				NAD
Plaster/Skim Coat - Texture	Dining Room			3-1				NAD
Plaster/Skim Coat - Plaster	Living Room			3-2				NAD
Plaster/Skim Coat - Skim Coat	Living Room			3-2				NAD
Plaster/Skim Coat - Plaster	Bedroom 1			3-3				NAD
Plaster/Skim Coat - Skim Coat	Bedroom 1			3-3				NAD
Plaster/Skim Coat - Plaster	Bedroom 2			3-4				NAD
Plaster/Skim Coat - Skim Coat	Bedroom 2			3-4				NAD

**1812 Wayne**  
**Pre-Demolition Asbestos Survey**  
**Table I - Bulk Sample Data Summary**

**Project TK-20J**

Homogeneous Area					Quantity & Condition			
Sample Description (Material Type)	Sample Location	NSHAP Category	ACM Type	Bulk Sample No.	Good	Fair	Poor	Asbestos Content
Plaster/Skim Coat - Plaster	Bedroom 1			3-5				NAD
Plaster/Skim Coat - Skim Coat	Bedroom 1			3-5				NAD
Linoleum	2nd Floor			4-1				NAD
<b>Duct Wrap</b>	<b>Dining Room</b>	<b>Cat 2 Non Friable</b>	<b>Misc</b>	<b>5-1</b>		<b>250 LF</b>		<b>65% Chrysotile</b>
<b>Duct Wrap</b>	<b>Basement</b>			<b>5-2</b>				<b>60% Chrysotile</b>
<b>Transite</b>	<b>Basement</b>	<b>Cat 1 Non Friable</b>	<b>Misc</b>	<b>6-1</b>		<b>32 SF</b>		<b>45% Chrysotile</b>
<b>Window Glazing</b>	<b>Dining Room</b>	<b>Cat 2 Non Friable</b>	<b>Misc</b>	<b>7-1</b>		<b>6 Windows</b>		<b>5% Chrysotile</b>
Window Glazing	Kitchen			7-2				NAD
Roofing - Shingle	Roof			8-1				NAD
Roofing - Shingle	Roof			8-1				NAD
Roofing - Shingle	Roof			8-1				NAD

**1812 Wayne Ave.**  
**Pre-Demolition Asbestos Survey**  
**Table II - Point Count Sample Data Summary**  
**Project TK-20J**

Homogeneous Area					Quantity & Condition			
Sample Description (Material Type)	Sample Location	NSHAP Category	ACM Type	Bulk Sample No.	Good	Fair	Poor	Asbestos Content
Window Glazing	Dining Room	Cat 2 Non Friable	Misc	7-1		6 Windows		2% Chrysotile

# **ATTACHMENT 3**

## **Laboratory Data**

# SanAir Technologies Laboratory

## Analysis Report

prepared for

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

Report Date: 10/20/2015  
Project Name: 1812 Wayne Ave  
Project #: TK-20J  
SanAir ID#: 15032507



NVLAP LAB CODE 200870-0



Certification # 652931



License # LAB0166



804.897.1177

[www.sanair.com](http://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](mailto:iaq@sanair.com)

SanAir ID Number

15032507

FINAL REPORT

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

**Project Number:** TK-20J  
**P.O. Number:**  
**Project Name:** 1812 Wayne Ave

**Collected Date:** 10/14/2015  
**Received Date:** 10/16/2015 10:25:00 AM  
**Report Date:** 10/20/2015 4:46:16 PM  
**Analyst:** Robertson, Erin

## Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
1-1 / 15032507-001 Linoleum Kitchen, Linoleum	Cream Non-Fibrous Homogeneous		80% Other	20% Chrysotile
1-1 / 15032507-001 Linoleum Kitchen, Mastic	Brown Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
1-2 / 15032507-002 Linoleum Kitchen, Linoleum	Cream Non-Fibrous Homogeneous		75% Other	25% Chrysotile
1-2 / 15032507-002 Linoleum Kitchen, Mastic	Brown Non-Fibrous Homogeneous		100% Other	< 1% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
2-1 / 15032507-003 Ceiling Tile 12" Kitchen	Blue Fibrous Homogeneous	95% Cellulose	5% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
3-1 / 15032507-004 Plaster/ Skim Coat Dining Room, Plaster	Grey Non-Fibrous Homogeneous	5% Hair 5% Cellulose	90% Other	None Detected
3-1 / 15032507-004 Plaster/ Skim Coat Dining Room, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
3-1 / 15032507-004 Plaster/ Skim Coat Dining Room, Texture	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
3-2 / 15032507-005 Plaster/ Skim Coat Living Room, Plaster	Grey Non-Fibrous Homogeneous	5% Hair 5% Cellulose	90% Other	None Detected
3-2 / 15032507-005 Plaster/ Skim Coat Living Room, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected

### Certification

**Analyst:** *Erin Robertson*  
**Date:** 10/20/2015

**Reviewed:** *[Signature]*  
**Date:** 10/20/2015



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SanAir ID Number

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FINAL REPORT

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

**Project Number:** TK-20J  
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**Project Name:** 1812 Wayne Ave

**Collected Date:** 10/14/2015  
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**Report Date:** 10/20/2015 4:46:16 PM  
**Analyst:** Robertson, Erin

## Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
3-3 / 15032507-006 Plaster/ Skim Coat Bedroom 1, Plaster	Grey Non-Fibrous Homogeneous	5% Hair 5% Cellulose	90% Other	None Detected
3-3 / 15032507-006 Plaster/ Skim Coat Bedroom 1, Skim Coat	Purple Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
3-4 / 15032507-007 Plaster/ Skim Coat Bedroom 2, Plaster	Grey Non-Fibrous Homogeneous	5% Hair 5% Cellulose	90% Other	None Detected
3-4 / 15032507-007 Plaster/ Skim Coat Bedroom 2, Skim Coat	Red Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
3-5 / 15032507-008 Plaster/ Skim Coat Bedroom 1, Plaster	Grey Non-Fibrous Homogeneous	5% Hair 5% Cellulose	90% Other	None Detected
3-5 / 15032507-008 Plaster/ Skim Coat Bedroom 1, Skim Coat	Purple Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
4-1 / 15032507-009 Linoleum 2nd Floor	Brown Non-Fibrous Homogeneous	40% Cellulose	60% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
5-1 / 15032507-010 Duct Wrap Dining Room	White Fibrous Homogeneous	20% Cellulose	15% Other	65% Chrysotile

### Certification

**Analyst:** *Erin Robertson*  
**Date:** 10/20/2015

**Reviewed:** *[Signature]*  
**Date:** 10/20/2015



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SanAir ID Number

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**Report Date:** 10/20/2015 4:46:16 PM  
**Analyst:** Robertson, Erin

## Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
5-2 / 15032507-011 Duct Wrap Basement	White Fibrous Homogeneous	30% Cellulose	10% Other	60% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
6-1 / 15032507-012 Transite Basement	White Fibrous Homogeneous	25% Cellulose	30% Other	45% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
7-1 / 15032507-013 Window Glaze Dining Room	Various Non-Fibrous Homogeneous		95% Other	5% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
7-2 / 15032507-014 Window Glaze Kitchen	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
8-1 / 15032507-015 Roofing Roof, Shingle	Green Non-Fibrous Homogeneous	15% Cellulose	85% Other	None Detected
8-1 / 15032507-015 Roofing Roof, Shingle	Various Non-Fibrous Homogeneous	25% Cellulose	75% Other	None Detected
8-1 / 15032507-015 Roofing Roof, Shingle	Red Non-Fibrous Homogeneous	25% Cellulose	75% Other	None Detected

### Certification

Analyst: *Erin Robertson*  
Date: 10/20/2015

Reviewed: *[Signature]*  
Date: 10/20/2015



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 Fax 804-897-0070  
 www.sanair.com

**Asbestos  
Chain of Custody**

SanAir ID Number <i>15032507</i>
-------------------------------------

Company: Turn-Key Environmental Consultants, Inc.	Project #: <i>TK-205</i>	Collected by: J. Saunders
Address: 790 BarnHart Rd.	Project Name: <i>1812 Wayne Ave</i>	Phone #: 937-335-8807
City, St., Zip: Troy, OH 45373	Date Collected: <i>10/14/15</i>	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 checked="" type="checkbox"/>	3 Days <input type="checkbox"/>	4 Days <input type="checkbox"/>	5 Days <input 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
<i>J. Saunders</i>	<i>10/15/15</i>	<i>1700</i>	<i>MC</i>	<i>OCT 16 2015</i>	<i>10:25 AM</i>

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.



# SanAir Technologies Laboratory

## Analysis Report

prepared for

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

Report Date: 10/23/2015  
Project Name: 1812 Wayne Ave  
Project #: TK-20J  
SanAir ID#: 15032998



NVLAP LAB CODE 200870-0



Certification # 652931



License # LAB0166



804.897.1177

[www.sanair.com](http://www.sanair.com)



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SanAir ID Number

**15032998**

FINAL REPORT

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**Received Date:** 10/21/2015 9:20:00 AM  
**Report Date:** 10/23/2015 4:38:45 PM  
**Analyst:** Robertson, Erin

## Asbestos Bulk EPA PLM 400 Point Count

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
7-1 / 15032998-001 Window Glaze Dining Room	Various Non-Fibrous Heterogeneous		98% Other	2% Chrysotile

### Certification

Analyst: *Erin Robertson*  
Analysis Date: 10/23/2015

Approved Signatory: *Sandra Sobino*  
Date: 10/23/2015

15032998

**Maria E. Coker**

---

**From:** Jordan L. Ridgeway  
**Sent:** Wednesday, October 21, 2015 9:19 AM  
**To:** Maria E. Coker; Melissa L. Logsdon  
**Cc:** Sandra C. Sobrino; Jonathan G. Tallert  
**Subject:** FW: Point Count Analysis

Jordan Ridgeway  
Account Executive  
SanAir Technologies Laboratory, Inc  
1551 Oakbridge Drive, Suite B  
Powhatan, Va 23139  
Phone: 804.897.1177  
Phone: 888.895.1177  
Fax 804.897.0070



[www.sanair.com](http://www.sanair.com)

**"The Identification Specialists"**  
Asbestos, Environmental Microbiology, Legionella, Materials Testing

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**From:** Turn-Key Environmental [mailto:tkec@turn-keyenvironmental.com]  
**Sent:** Wednesday, October 21, 2015 9:20 AM  
**To:** IAQ Forward  
**Subject:** Point Count Analysis

Please analyze the following samples by EPA PLM NOB / EPA PLM 400:

15032504-009

15032507-013

15032509-002

15032509-004

15032509-005

15032509-009

Two (2) day TAT for these samples is fine.

Thanks,

MC

OCT 21 2015

9:20 AM

15032998



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 15032507
------------------------------

Company: Turn-Key Environmental Consultants, Inc.	Project #: TK-205	Collected by: J. Saunders
Address: 790 BarnHart Rd.	Project Name: 1612 Wayne Ave	Phone #: 937-335-8807
City, St., Zip: Troy, OH 45373	Date Collected: 10/14/15	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"/>			Dust	
ABBTM	TEM EPA NOB <input type="checkbox"/>	New York ELAP		ABWA	TEM Wipe ASTM D-6480 <input type="checkbox"/>
		PLM NY	PLM EPA 600/M4-82-020 <input type="checkbox"/>	ABDMV	TEM Microvac ASTM D-5755 <input type="checkbox"/>
		ABEPA2	NY ELAP 198.1 <input type="checkbox"/>		
Water		ABENY	NY ELAP 198.6 PLM NOB <input type="checkbox"/>	Matrix	Other <input type="checkbox"/>
ABHE	EPA 100.2 <input type="checkbox"/>	ABBNY	NY ELAP 198.4 TEM NOB <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 checked="" type="checkbox"/>	3 Days <input type="checkbox"/>	4 Days <input type="checkbox"/>	5 Days <input 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	10/15/15	1700	MC	OCT 16 2015	10:25 AM

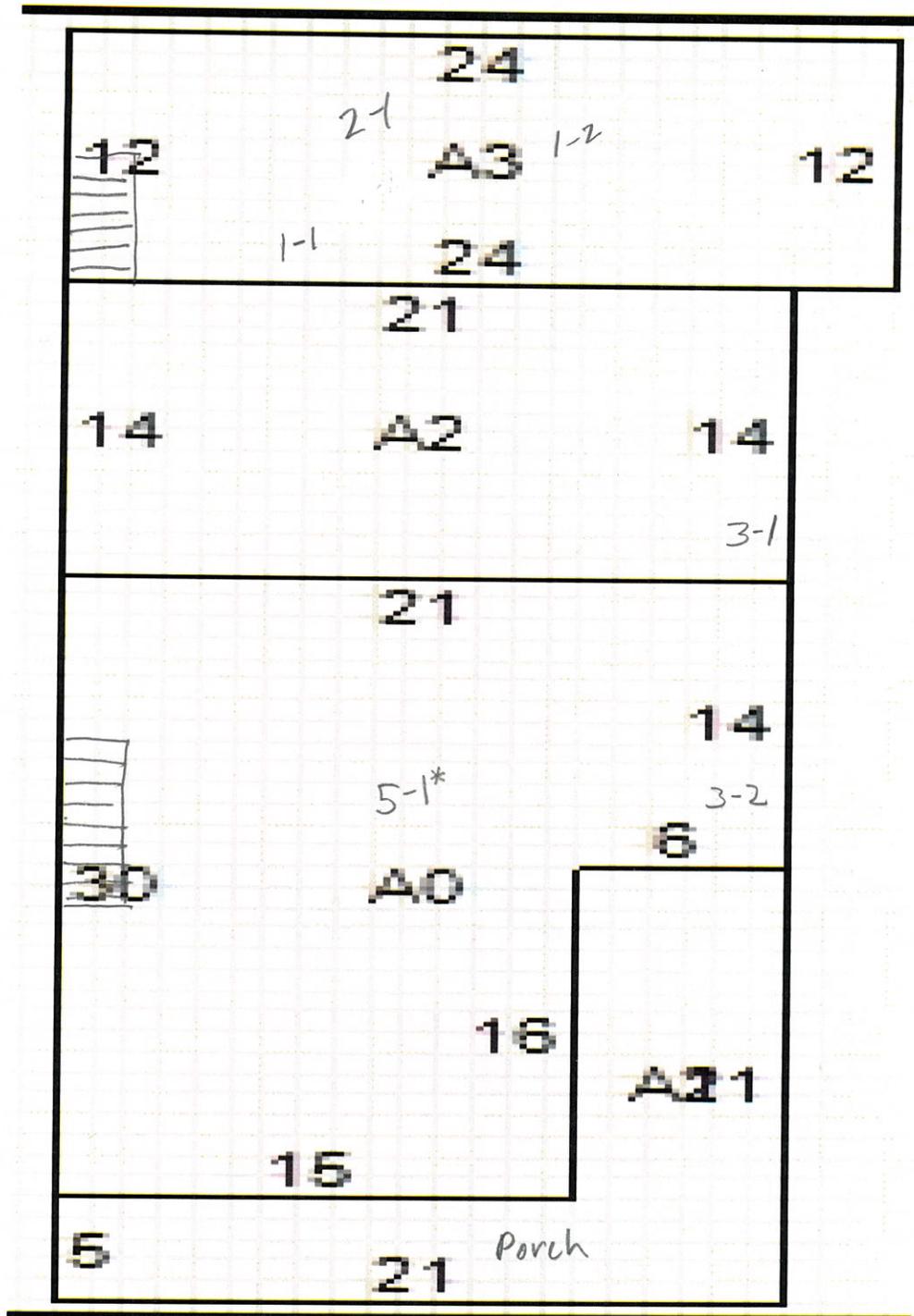
Unless scheduled, the turn around time for all samples received after 3 pm EST Friday will begin at 8 am Monday morning. Weekend or Holiday work must be scheduled ahead of time and is charged for rush turn around time. Work with standard turn around time sent Priority Overnight and Billed to Recipient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

MC OCT 21 2015 9:20 AM



# **ATTACHMENT 4**

**Site Sketch/Photographs**



Notes: Duct wrap extends from basement to 2nd Floor (5-1)

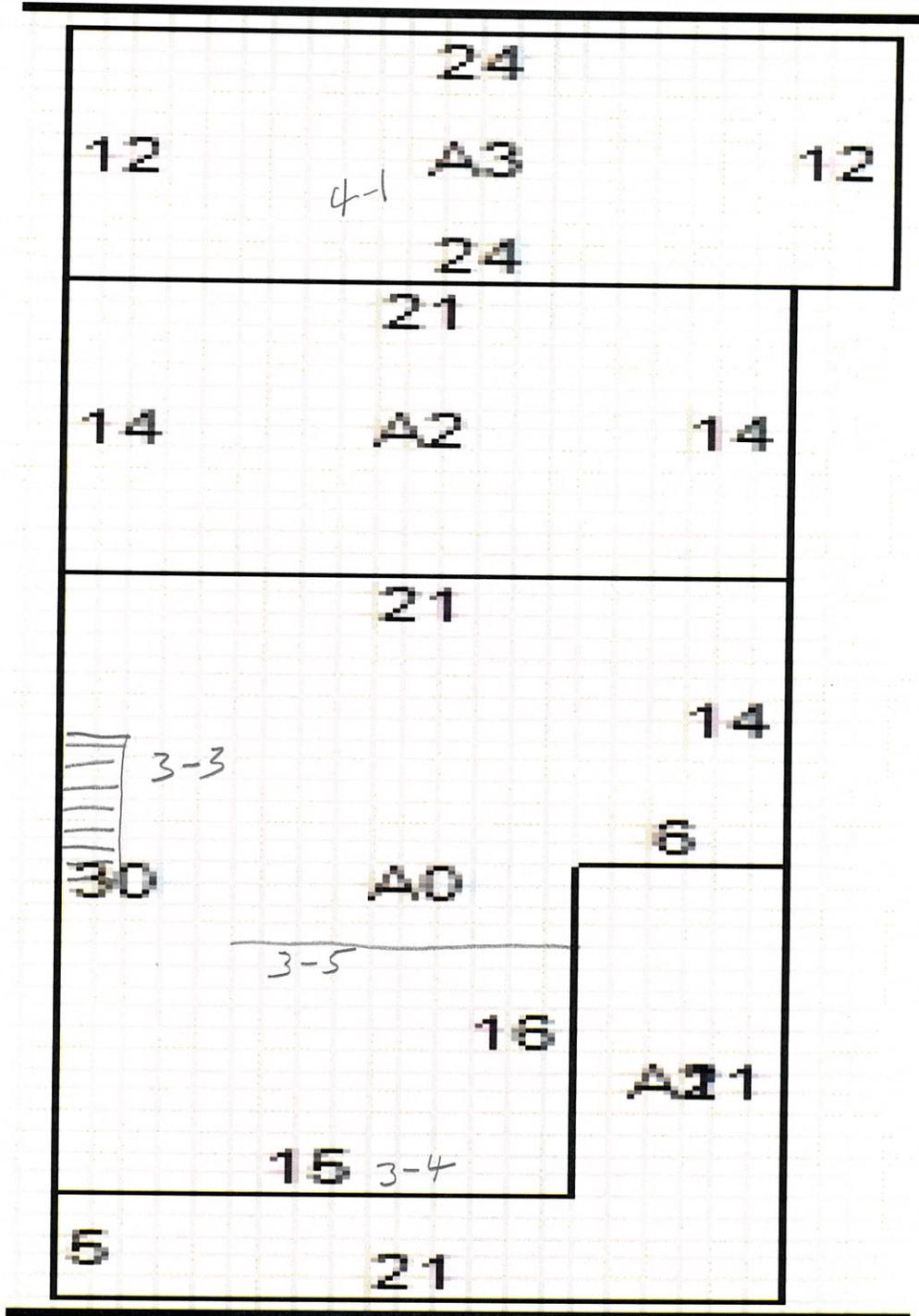
First

**FLOOR PLAN**

TK-20J \_ 1812 Wayne

1-1 Approximate  
Sample Location

1-1\* Asbestos > 1%



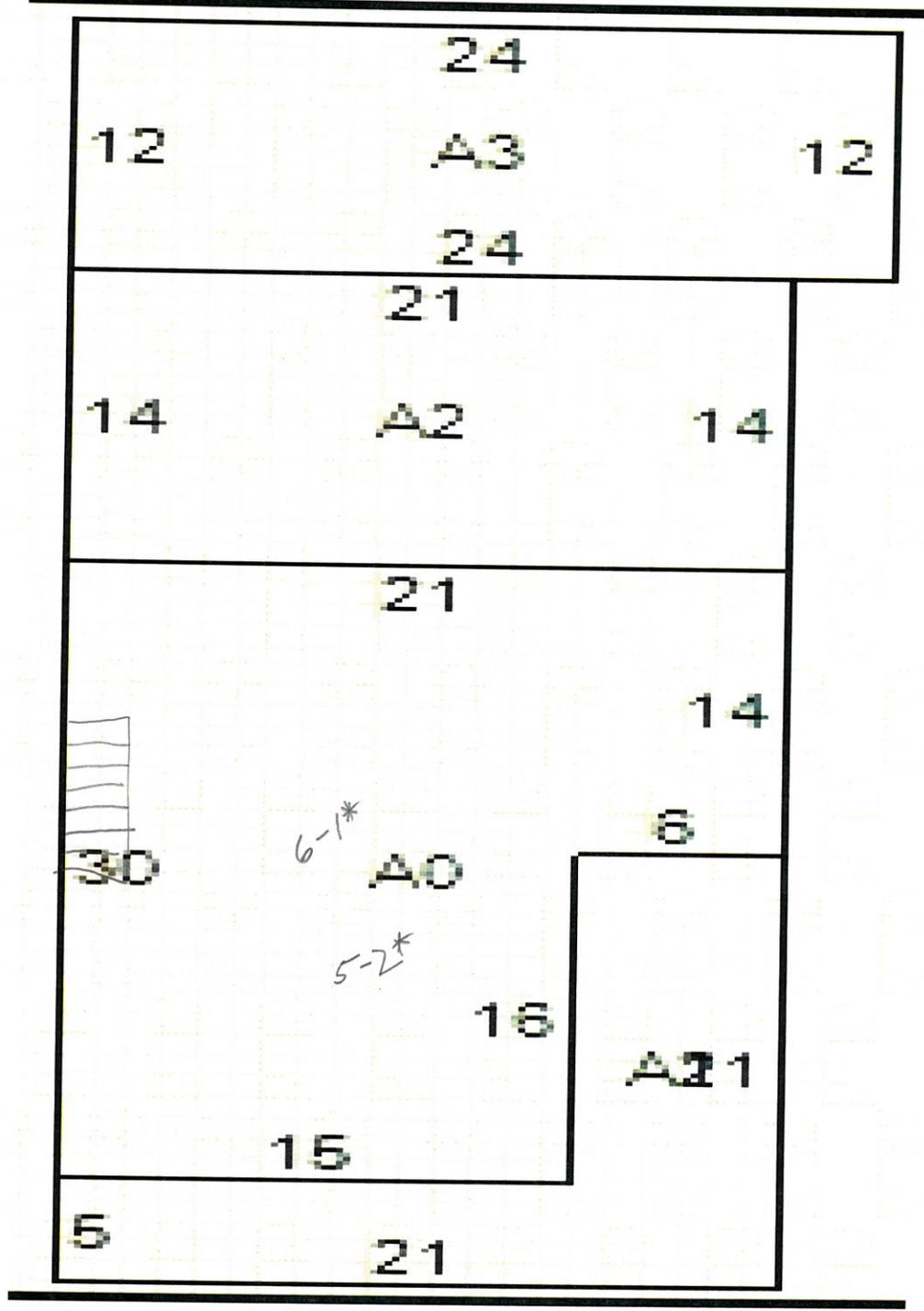
Notes:

*Most of roof is gone (five damage)*

*Second*

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

**FLOOR PLAN**  
TK-20J \_ 1812 Wayne



Notes: ~4'x8' Transite  
 15' of 2' diameter duct x 3  
 50' of 1' diameter duct x 2  
 6' of 3' diameter duct

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

Basement  
**FLOOR PLAN**  
 TK-20J \_ 1812 Wayne



R72 03403 0018 02/24/2013

1812 Wayne Avenue



Sample 1-1 Cream Linoleum



Sample 1-2 Cream Linoleum



Sample 2-1 Ceiling Tile 12"



Sample 3-1 Plaster/Skim Coat



Sample 3-2 Plaster/Skim Coat



Sample 3-3 Plaster/Skim Coat



Sample 3-4 Plaster/Skim Coat



Sample 3-5 Plaster/Skim Coat



Sample 5-1 Duct Wrap



Sample 5-2 Duct Wrap



Sample 6-1 Transite



Sample 7-1 Window Glazing



Sample 7-2 Window Glazing



Duct Wrap Located in Basement



Duct Wrap Located in Basement



Duct Wrap Located in Basement



Duct Wrap Located in Basement



Exposed riser on 1st Floor with Duct Wrap



# **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.

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 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

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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