



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

March 24, 2016

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

RE: Comprehensive Pre-Demolition Asbestos Survey, NOP TK-27, Vacant Residence, 4973 Sugartree Drive, Dayton, OH, TKEC Project #TK-27F

Dear Mr. Zimmer:

On March 15, 2016, Mr. Joseph Saunders (Ohio Department of Health Certified Asbestos Hazard Evaluation Specialist # ES34837) and Mr. Oliver Purcell (Ohio Department of Health Certified Asbestos Hazard Evaluation Specialist #ES35952) of Turn-Key Environmental Consultants, Inc. (TKEC) visited the vacant residence located at 4973 Sugartree Drive in Dayton, Ohio (subject property). According to the Montgomery County Auditor information, the subject property is owned by the Montgomery County Land Reutilization Corporation, 451 W. Third St., Dayton, OH 45422. 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 March 15, 2016, Mr. Joseph Saunders (Ohio Department of Health Certified Asbestos Hazard Evaluation Specialist # ES34837) and Mr. Oliver Purcell (Ohio Department of Health Certified Asbestos Hazard Evaluation Specialist #ES35952) of Turn-Key Environmental Consultants, Inc. (TKEC) performed a comprehensive pre-demolition asbestos inspection of the vacant residence located at 4973 Sugartree Drive. in Dayton, Ohio. 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 thirty (30) samples.

The structure contained approximately 2,600 SF of plaster/skim coat on the walls and approximately 990 SF of plaster/skim coat/texture located on the ceilings. Seven (7) samples of plaster/skim coat were taken from the walls and three (3) samples of plaster/skim coat/texture were taken from the ceiling.

Laboratory analysis indicated that two (2) samples contained 1% or greater asbestos.

Two (2) duct wrap samples taken in the basement were analyzed and determined to contain 85% chrysotile and will need to be abated from the structure prior to demolition.

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.

The structure contained approximately 2,600 SF of plaster/skim coat on the walls and approximately 990 SF of plaster/skim coat/texture located on the ceilings.

Two (2) duct wrap samples taken in the basement were analyzed and determined to contain 85% chrysotile and will need to be abated from the structure prior to demolition.

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:

- **Duct Wrap, [Throughout Structure], [Fair], [110 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>
Duct Wrap	110 SF	\$3.50/SF	\$385.00

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>
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 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).

4973 Sugartree Drive.
March 24, 2016

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



Oliver Purcell
Field Technician
ODH Asbestos Hazard Evaluation Specialist
No. ES35952, Exp. Date 11/05/2016

ATTACHMENT 1

Bulk Sample Log

ASBESTOS BULK SAMPLE LOG
Project - 4973 SugarTree Drive

TKEC Job# TK-27F

Sample #	Date	Color	Type	Location	Collected By
1-1	3/15/16	White	Plaster/Skim Coat	Kitchen	JS/OP
1-2	3/15/16	White	Plaster/Skim Coat	Dining Room	JS/OP
1-3	3/15/16	White	Plaster/Skim Coat	Living Room	JS/OP
1-4	3/15/16	White	Plaster/Skim Coat	Back Bedroom	JS/OP
1-5	3/15/16	White	Plaster/Skim Coat	Stairwell	JS/OP
1-6	3/15/16	White	Plaster/Skim Coat	2nd Floor Bedroom 3	JS/OP
1-7	3/15/16	White	Plaster/Skim Coat	2nd Floor Bedroom 4	JS/OP
2-1	3/15/16	White	Texture/Plaster/Skim Coat	Dining Room Ceiling	JS/OP
2-2	3/15/16	White	Texture/Plaster/Skim Coat	Bedroom 1 Ceiling	JS/OP
2-3	3/15/16	White	Texture/Plaster/Skim Coat	Bedroom 2 Ceiling	JS/OP
3-1	3/15/16	Gray	Floor Tile 12"	Kitchen	JS/OP
4-1	3/15/16	Gray	Duct Tape	Basement	JS/OP
4-2	3/15/16	Gray	Duct Tape	Basement	JS/OP
5-1	3/15/16	Gray	Dampning Cloth	Basement	JS/OP
6-1	3/15/16	Brown	Roof Shingle	Roof	JS/OP

ATTACHMENT 2

Bulk Sample Data Summary

4973 SugarTree
Pre-Demolition Asbestos Survey
Table I - Bulk Sample Data Summary

Project TK-27F

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 - Skim Coat	Kitchen	Cat II Non-Friable	Surfacing	1-1		2588 SF		NAD
Plaster/Skim Coat - Plaster	Kitchen	Cat II Non-Friable	Surfacing	1-1				NAD
Plaster/Skim Coat - Skim Coat	Dining Room	Cat II Non-Friable	Surfacing	1-2				NAD
Plaster/Skim Coat - Plaster	Dining Room	Cat II Non-Friable	Surfacing	1-2				NAD
Plaster/Skim Coat - Skim Coat	Living Room	Cat II Non-Friable	Surfacing	1-3				NAD
Plaster/Skim Coat - Plaster	Living Room	Cat II Non-Friable	Surfacing	1-3				NAD
Plaster/Skim Coat - Skim Coat	Back Bedroom	Cat II Non-Friable	Surfacing	1-4				NAD
Plaster/Skim Coat - Plaster	Back Bedroom	Cat II Non-Friable	Surfacing	1-4				NAD
Plaster/Skim Coat - Skim Coat	Stairwell	Cat II Non-Friable	Surfacing	1-5				NAD
Plaster/Skim Coat - Plaster	Stairwell	Cat II Non-Friable	Surfacing	1-5				NAD
Plaster/Skim Coat - Skim Coat	2nd Floor Bedroom 3	Cat II Non-Friable	Surfacing	1-6				NAD
Plaster/Skim Coat - Plaster	2nd Floor Bedroom 3	Cat II Non-Friable	Surfacing	1-6				NAD
Plaster/Skim Coat - Skim Coat	2nd Floor Bedroom 4	Cat II Non-Friable	Surfacing	1-7				NAD

4973 SugarTree
Pre-Demolition Asbestos Survey
Table I - Bulk Sample Data Summary

Project TK-27F

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	2nd Floor Bedroom 4	Cat II Non-Friable	Surfacing	1-7				NAD
Texture/Plaster/Skim Coat - Texture	Dining Room Ceiling	Cat II Non-Friable	Surfacing	2-1		990 SF		NAD
Texture/Plaster/Skim Coat - Skim Coat	Dining Room Ceiling	Cat II Non-Friable	Surfacing	2-1				NAD
Texture/Plaster/Skim Coat - Plaster	Dining Room Ceiling	Cat II Non-Friable	Surfacing	2-1				NAD
Texture/Plaster/Skim Coat - Texture	Bedroom 1 Ceiling	Cat II Non-Friable	Surfacing	2-2				NAD
Texture/Plaster/Skim Coat - Joint Compound	Bedroom 1 Ceiling	Cat II Non-Friable	Surfacing	2-2				NAD
Texture/Plaster/Skim Coat - Fibrous	Bedroom 1 Ceiling	Cat II Non-Friable	Surfacing	2-2				NAD
Texture/Plaster/Skim Coat - Sheetrock	Bedroom 1 Ceiling	Cat II Non-Friable	Surfacing	2-2				NAD
Texture/Plaster/Skim Coat - Texture	Bedroom 2 Ceiling	Cat II Non-Friable	Surfacing	2-3				NAD
Texture/Plaster/Skim Coat - Skim Coat	Bedroom 2 Ceiling	Cat II Non-Friable	Surfacing	2-3				NAD
Texture/Plaster/Skim Coat - Plaster	Bedroom 2 Ceiling	Cat II Non-Friable	Surfacing	2-3				NAD
Floor Tile/Mastic - Tile	Kitchen	Cat I Non-Friable	Misc	3-1				NAD
Floor Tile/Mastic - Mastic	Kitchen	Cat I Non-Friable	Misc	3-1				NAD

4973 SugarTree
Pre-Demolition Asbestos Survey
Table I - Bulk Sample Data Summary

Project TK-27F

Homogeneous Area					Quantity & Condition			
Sample Description (Material Type)	Sample Location	NSHAP Category	ACM Type	Bulk Sample No.	Good	Fair	Poor	Asbestos Content
Duct Tape	Basement	Cat II Friable	Misc	4-1				85% Chrysotile
Duct Tape	Basement	Cat II Friable	Misc	4-2				85% Chrysotile
Dampening Cloth	Basement	Cat II Non-Friable	Misc	5-1				NAD
Roofing Shingle	Roof	Cat I Non-Friable	Misc	6-1				NAD

ATTACHMENT 3

Laboratory Data



Email: IAQ@hayesmicrobial.com
www.hayesmicrobial.com/lims/

Analysis Report prepared for

Turn-Key Environmental Consultants

714 E Monument Ave
Dayton, OH 45402
Ph.: (937) 335-8807 Fax.: (937) 339-4882

Job Number: TK-27F
Job Name: 4973 Sugar Tree
Date Sampled: 03-15-2016
Date Analyzed: 03-21-2016
Report Date: 03-21-2016

AIHA EMPAT Laboratory ID# 188863
EPA Laboratory ID# VA01419



NVLAP Lab Code: 500096-0



LAB #188863

AIHA Accredited
Environmental Microbiology



NY ELAP Lab ID#12015

Texas Dept. of State
Health Services

Mold License: LAB1021
Asbestos License: 300435



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

HMC #16006472

**Turn-Key Environmental Consultants
714 E Monument Ave
Dayton, OH 45402**

March 21, 2016

Client Job Number: TK-27F
Client Job Name: 4973 Sugar Tree

Dear Turn-Key Environmental Consultants,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On March 17, 2016 we received 15 samples by FedEx for the job referenced above.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial Consulting. In no event, shall Hayes Microbial Consulting or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of your use of the test results.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



HAYES

MICROBIAL CONSULTING
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Turn-Key Environmental Consultants
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Dayton, OH 45402
Ph.: (937) 335-8807 Fax.: (937) 339-4882

EPA 600/R-93, M-4/82-020 (PLM)

HMC #16006472

Job Number: TK-27F	Job Name: 4973 Sugar Tree	Date Collected: 03/15/2016
Collected by: J. Saunders		Date Received: 03/17/2016
Email: tke@turn-keyenvironmental.com		Date Reported: 03/21/2016

#	Sample	Name	Description	Asbestos Fibers	Other Fibers	Non- Fibers
1	1-1	Plaster/Skim Coat - Kitchen	Skim Coat / White	(None Detected)	(None Detected)	100 %
	Layer 2	Plaster/Skim Coat - Kitchen	Rough Coat / Gray	(None Detected)	2 % Hair	98 %
2	1-2	Plaster/Skim Coat - Dining Room	Skim Coat / White	(None Detected)	(None Detected)	100 %
	Layer 2	Plaster/Skim Coat - Dining Room	Rough Coat / Gray	(None Detected)	2 % Hair	98 %
3	1-3	Plaster/Skim Coat - Living Room	Skim Coat / White	(None Detected)	(None Detected)	100 %
	Layer 2	Plaster/Skim Coat - Living Room	Rough Coat / Gray	(None Detected)	2 % Hair	98 %
4	1-4	Plaster/Skim Coat - Back Bedroom	Skim Coat / White	(None Detected)	(None Detected)	100 %
	Layer 2	Plaster/Skim Coat - Back Bedroom	Rough Coat / Gray	(None Detected)	2 % Hair	98 %
5	1-5	Plaster/Skim Coat - Stairwell	Skim Coat / White	(None Detected)	(None Detected)	100 %
	Layer 2	Plaster/Skim Coat - Stairwell	Rough Coat / Gray	(None Detected)	2 % Hair	98 %
6	1-6	Plaster/Skim Coat - 2nd Floor Bedroom 3	Skim Coat / White/Green	(None Detected)	(None Detected)	100 %

Signature: 

Date: 03/21/2016

Reviewed by: 

Date: 03/21/2016



HAYES

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EPA 600/R-93, M-4/82-020 (PLM)

HMC #16006472

Job Number: TK-27F	Job Name: 4973 Sugar Tree	Date Collected: 03/15/2016
Collected by: J. Saunders		Date Received: 03/17/2016
Email: tke@turn-keyenvironmental.com		Date Reported: 03/21/2016

#	Sample	Name	Description	Asbestos Fibers	Other Fibers	Non- Fibers
	Layer 2	Plaster/Skim Coat - 2nd Floor Bedroom 3	Granular / White	(None Detected)	(None Detected)	100 %
7	1-7	Plaster/Skim Coat - 2nd Floor Bedroom 4	Skim Coat / White	(None Detected)	(None Detected)	100 %
	Layer 2	Plaster/Skim Coat - 2nd Floor Bedroom 4	Rough Coat / Gray	(None Detected)	(None Detected)	100 %
8	2-1	Texture/Plaster/Skim Coat - Dining Room Ceiling	Texture / White	(None Detected)	(None Detected)	100 %
	Layer 2	Texture/Plaster/Skim Coat - Dining Room Ceiling	Skim Coat / Green	(None Detected)	(None Detected)	100 %
	Layer 3	Texture/Plaster/Skim Coat - Dining Room Ceiling	Rough Coat / Gray	(None Detected)	(None Detected)	100 %
9	2-2	Texture/Plaster/Skim Coat - Bedroom 1 Ceiling	Texture / White	(None Detected)	(None Detected)	100 %
	Layer 2	Texture/Plaster/Skim Coat - Bedroom 1 Ceiling	Joint Compound / White	(None Detected)	<1 % Cellulose fibers	100 %
	Layer 3	Texture/Plaster/Skim Coat - Bedroom 1 Ceiling	Fibrous / Brown	(None Detected)	90 % Cellulose fibers	10 %
	Layer 4	Texture/Plaster/Skim Coat - Bedroom 1 Ceiling	Sheetrock / White	(None Detected)	<1 % Cellulose fibers	100 %
10	2-3	Texture/Plaster/Skim Coat - Bedroom 2 Ceiling	Texture / White	(None Detected)	(None Detected)	100 %

Signature:

Date: 03/21/2016

Reviewed by:

Date: 03/21/2016



HAYES

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EPA 600/R-93, M-4/82-020 (PLM)

HMC #16006472

Job Number: TK-27F	Job Name: 4973 Sugar Tree	Date Collected: 03/15/2016
Collected by: J. Saunders		Date Received: 03/17/2016
Email: tke@turn-keyenvironmental.com		Date Reported: 03/21/2016

#	Sample	Name	Description	Asbestos Fibers	Other Fibers	Non- Fibers
	Layer 2	Texture/Plaster/Skim Coat - Bedroom 2 Ceiling	Skim Coat / Green	(None Detected)	(None Detected)	100 %
	Layer 3	Texture/Plaster/Skim Coat - Bedroom 2 Ceiling	Rough Coat / Gray	(None Detected)	2 % Hair	98 %
11	3-1	Floor Tile 12 - Kitchen	Tile / White	(None Detected)	(None Detected)	100 %
	Layer 2	Floor Tile 12 - Kitchen	Adhesive / Yellow	(None Detected)	2 % Hair	98 %
12	4-1	Duct Tape - Basement	Fibrous / Gray	85 % Chrysotile	(None Detected)	15 %
13	4-2	Duct Tape - Basement	Fibrous / Gray	85 % Chrysotile	(None Detected)	15 %
14	5-1	Dampning Cloth - Basement	Fibrous / White	(None Detected)	35 % Fiberglass	65 %
15	6-1	Roofing Shingle - Roof	Roofing / Black	(None Detected)	15 % Fiberglass	85 %

Signature: 

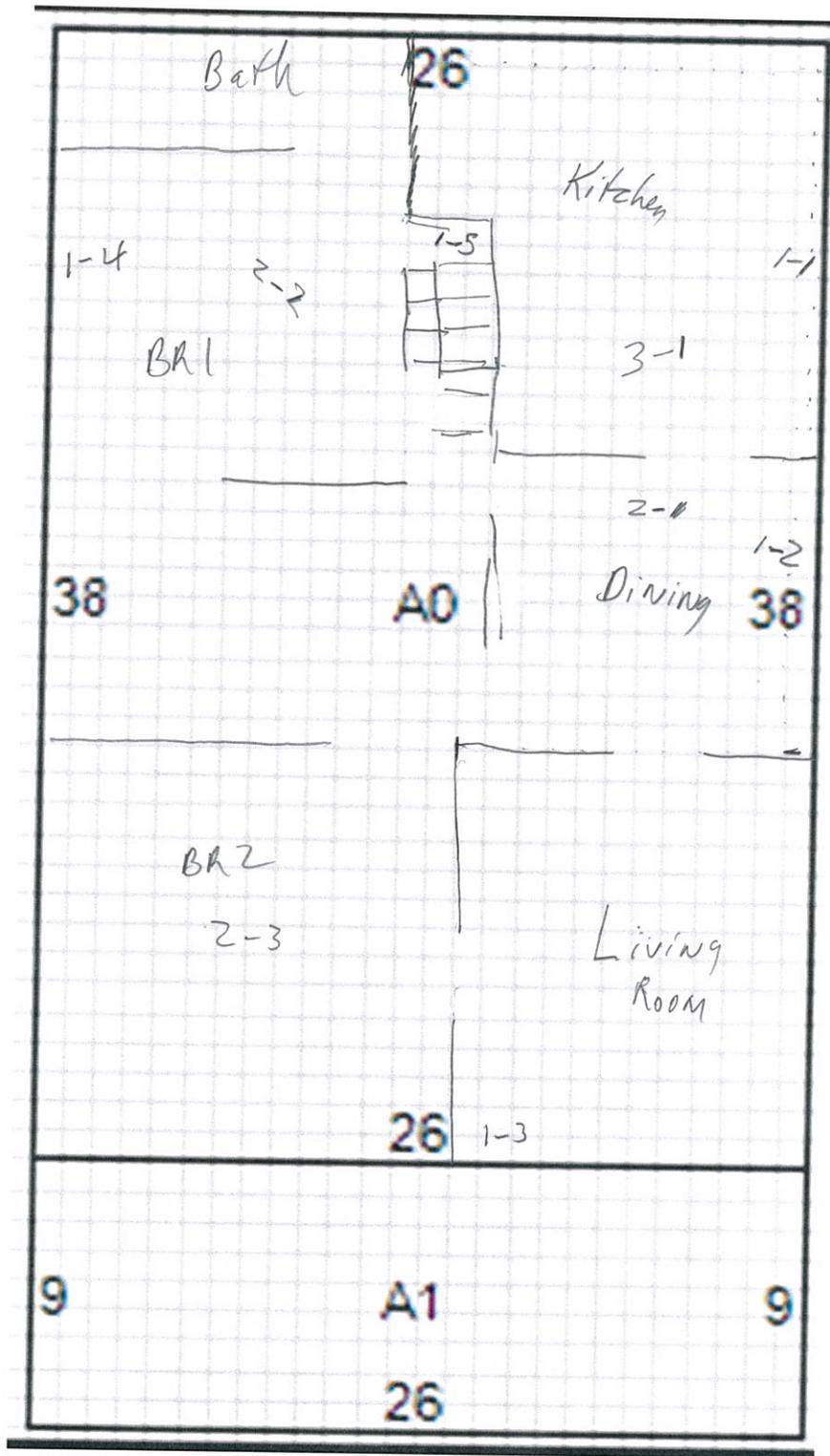
Date: 03/21/2016

Reviewed by: 

Date: 03/21/2016

ATTACHMENT 4

Site Sketch/Photographs



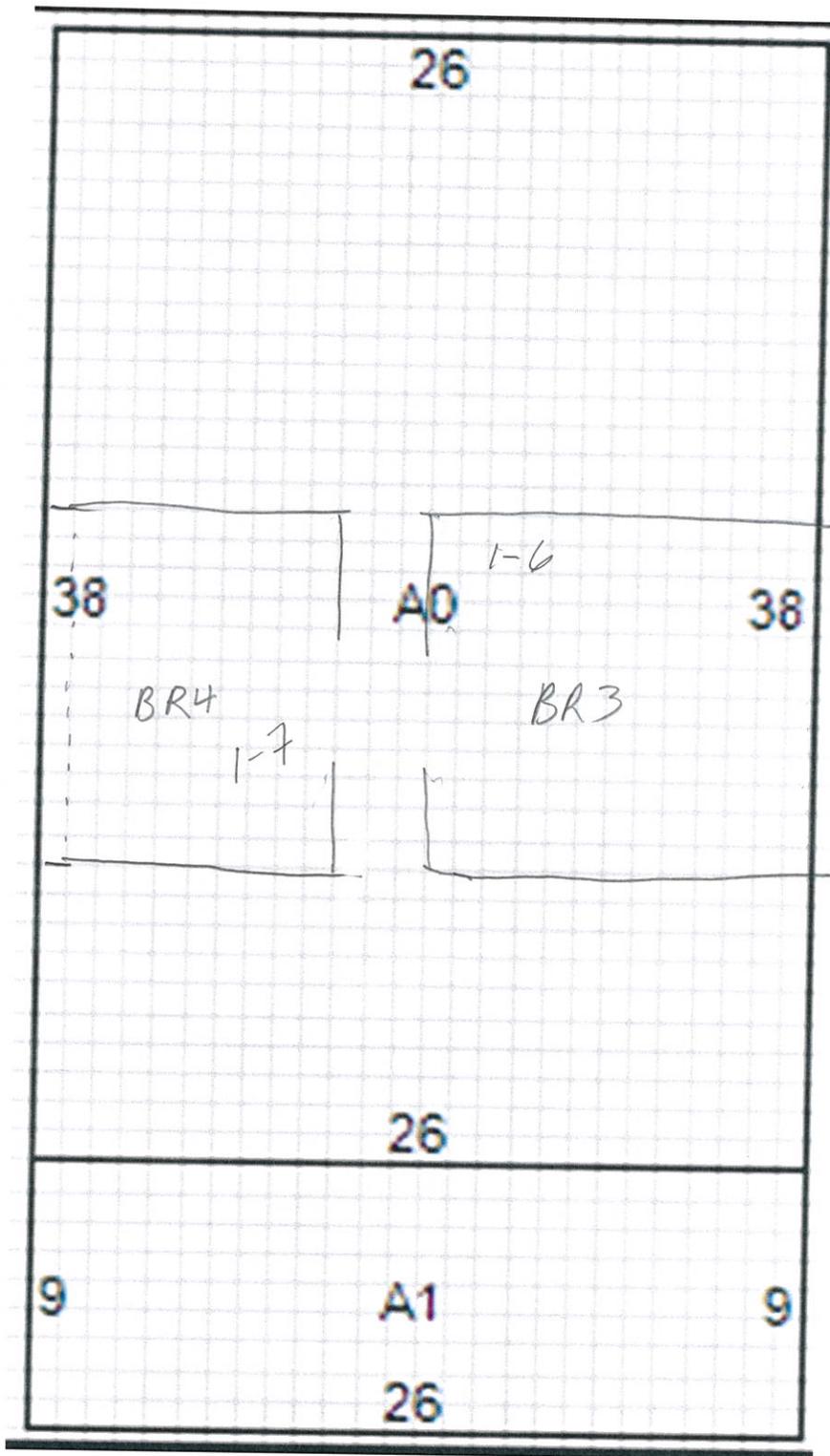
1st Floor
FLOOR PLAN

TK-27F

4973 Sugartree

1-1 Approximate
 Sample Location

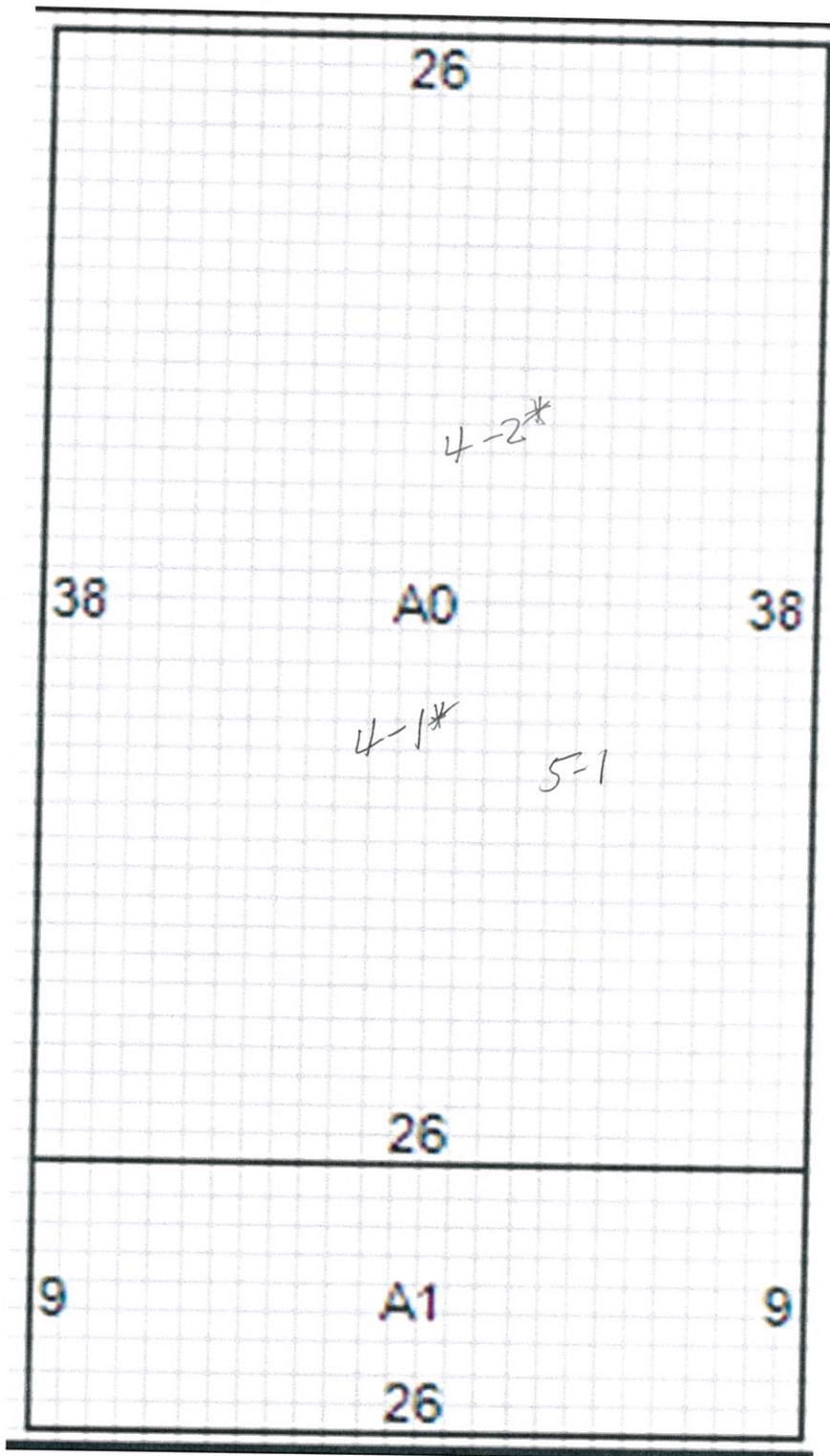
1-1* Asbestos > 1%



1-1 Approximate
Sample Location

1-1* Asbestos > 1%

2nd Floor
FLOOR PLAN
TK-27F
4973 Sugartree



1-1 Approximate
Sample Location

1-1* Asbestos > 1%

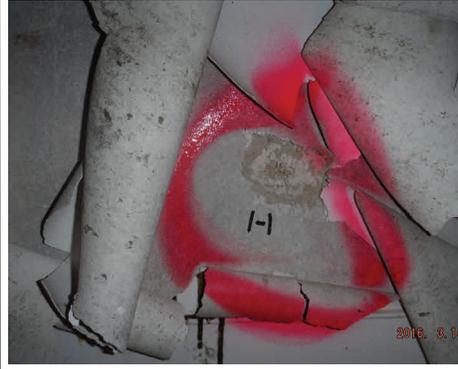
Basement
FLOOR PLAN

TK-27F

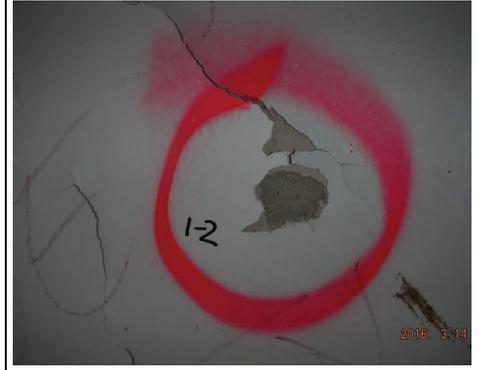
4973 Sugartree



4973 Sugartree Drive



Sample 1-1 Plaster/Skim Coat



Sample 1-2 Plaster/Skim Coat



Sample 1-3 Plaster/Skim Coat



Sample 1-4 Plaster/Skim Coat



Sample 1-5 Plaster/Skim Coat



Sample 1-6 Plaster/Skim Coat



Sample 1-7 Plaster/Skim Coat



Sample 2-1 Textured Ceiling



Sample 2-2 Textured Ceiling



Sample 2-3 Textured Ceiling



Sample 3-1 12" Floor Tile



Sample 4-1 Duct Wrap



Sample 4-2 Duct Wrap



Sample 5-1 Dampening Cloth

ATTACHMENT 5

Inspector's Certification

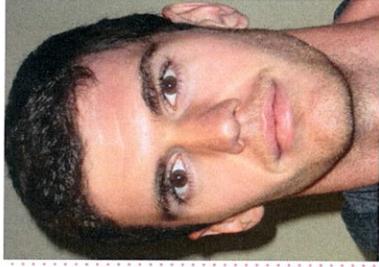


TSI Training Services International

Asbestos Building Inspector Initial

Certificate

This is to certify



Oliver Purcell

XXXX-XX-7816

has attended and successfully completed the Asbestos Hazard Emergency Response Act mandatory course for the Asbestos Building Inspector Initial 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.

Robert M. Walter

9/30/16

Expiration Date

9/28/15 - 9/30/15

Date(s) of Course

9/30/15

Examination Date

Cleveland, OH

Course Location



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

15 TSI 60522 ii

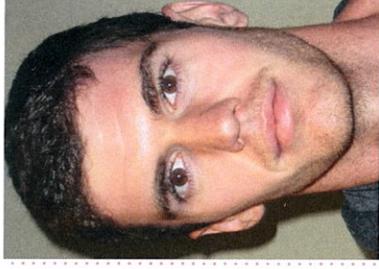


TSI Training Services International

Asbestos Management Planner Initial

Certificate

This is to certify



Oliver Purcell

XXXX-XX-7816

has attended and successfully completed the Asbestos Hazard Emergency Response Act mandatory course for the Asbestos Management Planner Initial 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.

Robert Alletta

10/2/16

Expiration Date

10/1/15 - 10/2/15

Date(s) of Course

10/2/15

Examination Date

Cleveland, OH

Course Location

TSI

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

15 TSI 60530 mpi



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

November 05, 2015

Oliver L Purcell
54 Old Yellow Springs Road Unit 11
Fairborn OH 45324

RE: Asbestos Hazard Evaluation Specialist
Certification Number: ES35952
Expiration Date: 11/05/2016

Dear Oliver L Purcell:

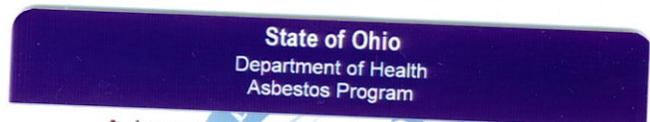
This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

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



Asbestos Hazard Evaluation Specialist



Oliver L Purcell

**54 Old Yellow Springs Road Unit 11
Fairborn OH 45324**

Certification Number **ES35952** Expiration Date **11/05/2016**

DOB: 07/12/1992

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



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

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