

Final Air Clearance Monitoring

October 19, 2010

25 Ferry Street Middletown, Connecticut

Nehemiah Housing

Middletown, Connecticut

October 19, 2010



FUSS & O'NEILL

Disciplines to Deliver

Fuss & O'Neill EnviroScience, LLC

146 Hartford Road

Manchester, CT 06040



FUSS & O'NEILL
EnviroScience, LLC

Disciplines to Deliver

October 19, 2010

Mr. Michael Taylor
Executive Director
Nehemiah Housing Authority
668 Main Street
Middletown, CT 06457


RE: Final Air Clearance Monitoring
Nehemiah Housing Authority
25 Ferry Street, Middletown, CT
Fuss & O'Neill EnviroScience Project No. 20072210.A2E

Dear Mr. Taylor:

Attached is the report for the final air clearance monitoring performed at 25 Ferry Street Middletown, Connecticut. The final air clearance was performed in response to the planned demolition of the building. A total of 950 SF of floor tile and associated mastic was removed.

If you have any questions regarding the contents of this report, do not hesitate to contact us.

Sincerely,


Stephen W. Connelly
Senior Vice President

146 Hartford Road
Manchester, CT
06040

t (860) 646-2469
f (860) 533-5143

www.FandO.com

SWC/kr

Enclosure

Connecticut

Massachusetts

New York

Rhode Island

South Carolina

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Final Air Clearance Monitoring Nehemiah Housing Authority

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1 Introduction

On October 19, 2010, Fuss & O'Neill EnviroScience, LLC (EnviroScience) Environmental Technician Ulkens Auguste collected final air clearance samples from 25 Ferry Street Middletown, Connecticut. The final air clearance was performed in response to the planned demolition of the building. A total of 950 SF of floor tile and associated mastic was removed.

Project design was prepared by Fuss & O'Neill EnviroScience. The General Contractor was Nehemiah Housing of Middletown, Connecticut. The asbestos abatement contractor was Haz-Pros, Inc. of West Hartford, CT.

Following a successful final visual inspection, samples were collected inside the containment utilizing aggressive sampling techniques.

This final visual inspection was performed in accordance with the "no visible residue" criteria for post abatement criteria required by the State of Connecticut Department of Public Health (CTDPH) (Section 19a-332a-12b; Standards for Asbestos Abatement). In addition to final visual inspections, EnviroScience performed final air clearance sampling for the asbestos removal. The results of all air sampling conducted met the clearance levels required by the CTDPH, (Section 19a-332a-12g; Standards for Asbestos Abatement).

2 Results

Five air samples and two blanks were analyzed (on-site) utilizing Phase Contrast Microscopy (PCM) employing the NIOSH 7400 method. The results of the PCM analysis are as follows:

SAMPLE ID	LOCATION	VOLUME (LITERS)	RESULT (f/cc)
101910UA-01	Field Blank	----	----
101910UA-02	Sealed Blank	----	----
101910UA-03	North entrance hall	1215	<0.0022
101910UA-04	South entrance hall	1200	<0.0022
101910UA-05	East wall of back room	1215	<0.0022
101910UA-06	West wall of back room	1200	<0.0022
101910UA-07	Center of back room	1245	<0.0021

f/cc = fibers per cubic centimeter

3 Discussion

On October 19, 2010, Mr. Auguste performed a final air clearance in the first floor entrance hall and two back rooms at 25 Ferry Street, Middletown, Connecticut. On that day, Mr. Auguste arrived on-site at 10:30 a.m. and followed all procedures associated with PCM clearance. Mr. Auguste performed a final visual inspection; no visible dust or debris was encountered during the final visual inspection. After the visual inspection, Mr. Auguste set up pumps inside of the containment and measured the flow rates. Using a leaf blower, air was aggressively disturbed in the containment and samples were collected shortly after.



PCM samples were analyzed by Ulkens Auguste, a trained microscopist listed on the Asbestos Analyst's Registry maintained by the American Industrial Hygiene Association.


4 Conclusion

The final visual inspection was performed in accordance with the "no visible residue" criteria for post abatement criteria required by the State of Connecticut Department of Public Health (CTDPH) (Section 19a-332a-12b, Standards for Asbestos Abatement). In addition to final visual inspections, EnviroScience performed final air clearance re-occupancy sampling for the asbestos removal project.

The sample results met the CTDPH regulations for post abatement air quality.

Report prepared by Environmental Technician Ulkens Auguste.

Reviewed by:


Stephen W. Connelly
Senior Vice President



FUSS & O'NEILL
EnviroScience, LLC

Appendix A

Daily Monitoring Data



Date: 10/19/10 Project Number: 20072210-A2E
 Technician: U. Van Auguste AAR Number: 9124
 Building: 25 Ferry St. Middletown, CT
 Area: Hall/Entrance Hall & back rooms

Inspections* PC, PR, PS, TD	Work Area	Time
1. PS	Entrance Hall & back Rooms	1035
2.		
3.		
4.		
5.		

* Inspection Key: PC = Pre-commencement, PR = Progress, PS = Pre-sealant, TD = Teardown

Sample Number	Location**	Activity ***	Results (F/CC)
1. 101910UA-01	FB	FAC	0.00
2. 101910UA-02	SB	FAC	0.100
3. 101910UA-03	North of Entrance Hall	FAC	<0.0022
4. 101910UA-04	South of Entrance Hall	FAC	<0.0022
5. 101910UA-05	East Wall of back room	FAC	<0.0022
6. 101910UA-06	West Wall of back room	FAC	<0.0022
7. 101910UA-07	Center of back room	FAC	<0.0021
8.			
9.			
10			
11			
12			

** Location Key: NAE = Negative Air Exhaust, DECON: OCB = Outside Critical Barrier,
IC = Inside Containment, FB = Field Blank, SB = Sealed Blank

*** Activity Key: PA = Pre-abatement, SU = Pre-setup, DR = During Removal,
FC = Final Cleaning, FAC = Final Air Clearance



FUSS & O'NEILL
EnviroScience, Inc

Appendix B

Certificate of Final Visual Inspection



FUSS & O'NEILL
EnviroScience, LLC

Certificate of Final Visual Inspection

Asbestos Abatement

Date: 10/19/10 Removal Encapsulation Enclosure Repair Cleanup

PROJECT NAME: Abraham Housing PROJECT NO.: 20072210.A2C

SITE LOCATION: Middletown, CT BUILDING: Trade PASS

CONTAINMENT: FIRST FLOOR AREA FAIL

CONTRACTOR: HAZ PRO

Standard Containment AWP Containment Mini-Enclosure Glovebag None

MATERIALS REMOVED

1. <u>Floor tile</u>	QTY: <u>~95DSF</u>	2.	QTY:
3.	QTY:	4.	QTY:
5.	QTY:	6.	QTY:
7.	QTY:	8.	QTY:
9.	QTY:	10.	QTY:

SUSPECT MATERIALS REMAINING IN CONTAINMENT NOT SPECIFIED FOR REMOVAL

1.	QTY:	2.	QTY:
3.	QTY:	4.	QTY:

SURFACES INSPECTED

Instructions: Check surfaces that pass. Circle surfaces that fail. Strike through N/A.

- Floor Horizontal Surfaces Pipes Mechanical Equipment,
 Duct Work Vertical Surfaces Decon Unit Contractor's Equipment
 Fixtures Enclosed Items Other:

FIELD NOTES

No visible dust or debris was observed - the area passes inspection.

AIR CLEARANCE: PCM TEM None performed

CERTIFICATION

I certify that this containment was inspected by me this day.

EnviroScience Inspector: Dennis Auguste
PRINTED

Dennis Auguste
SIGNATURE

I have read and understand these results.

Contractor's Supervisor: Michael Carls
PRINTED

Michael Carls
SIGNATURE



FUSS & O'NEILL
EnviroScience, LLC

50 Redfield Street, Suite 207, Boston, MA 02122 (617) 282-4675

Area Air Monitoring Worksheet For Asbestos Field Analysis

Form 7400-05
Edition 2017
Supersedes previous editions

Project Name: Norwich Housing
Project Number: 20072210.AZE
Project Manager: BSC
Project Location: Middlebury CT

Rotometer Number: 101361
Rotometer Cal. Date: 9/14/10
Microscope Number: 102094

Sampler Name: V. Augusto
Analyst Name: V. Augusto AAR# 9124
Sample Date: 10/19/10 Analysis Date: 10/19/10
Reviewed By: Stephen W. Lavelle
Reviewer's Title: Sr Vice President

Sample ID Number	Sample Location	Activity Code/Comment	Sample Time		Sample Duration Minutes	Pump Number	Flow Rate (LPM)			Total Volume Liters	Fiber Count Fibers/fields	Concentration	
			On	Off			Pre	Post	Ave			Fibers/mm ³	Fibers/cc
101910VA-01	Field Blank												
101910VA-02	Sealed Blank												
101910VA-03	North of Entrance Hall	3	1130	1251	81		15	15	15	1215	2/100	2.5478	<0.0022
101910VA-04	South of Entrance Hall	3	1132	1252	80		15	15	15	1200	1/100	1.2740	<0.0022
101910VA-05	East side of back room	3	1133	1254	81		15	15	15	1215	2/100	3.8217	<0.0022
101910VA-06	West side of back room	3	1135	1255	80		15	15	15	1200	1/100	1.2740	<0.0022
101910VA-07	Center of back room	3	1137	1300	83		15	15	15	1245	1/100	1.2740	<0.0022
	Duplicate Count												

Reference Method: NIOSH 7400 Issue 2, 8/15/94 Limit of Detection: 0.055 fibers/field

Sample Type: 25 mm 3 piece 0.8µ mixed cellulose ester PCM Air Monitor

CONCENTRATION (Fibers/mm³) = (SAMPLE fibers/field) ÷ (BLANK fibers/field)
(0.00785mm²/field)

CONCENTRATION (fibers/cc) = (SAMPLE fibers/field) ÷ (BLANK fibers/field) x (385) mm³/liter
(0.00785mm³/field) x liters x 1000 cc/liter

Range	Intra Lab Sr	Inter Lab Sr
1 (5-20 Fibers/100 fields)	0.24	0.72
2 (20-50 Fibers/100 fields)	0.30	0.46
3 (>50 Fibers/100 fields)	0.33	0.40

Code	Type
1	Background
2	During
3	Clearance
4	Environmental
5	Personal
6	Other



FUSS & O'NEILL
EnviroScience, LLC

Appendix D

Fuss &* O'Neill EnviroScience Certifications

0001303 FP **PRSRT T4 0 1264 06040

ULKENS AUGUSTE
146 HARTFORD RD
C/O FUSS & O'NEIL ENVIRO SCIENCE
MANCHESTER CT 06040-5992

Dear Licensed/Certified Professional,
Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

Department of Public Health (860) 509-7603
P.O. Box 340308
M.S.#12MQA <http://www.dph.state.ct.us>
Hartford, CT 06134-0308

Sincerely,

J Robert Galvin, MD, MPH, MBA

J. ROBERT GALVIN, MD, MPH, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.

4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

**STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH**

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - PROJECT MONITOR

ULKENS AUGUSTE

LICENSE NO.
000644
CURRENT THROUGH
09/30/11
VALIDATION NO.
03 - 089928

Ulken Auguste
SIGNATURE

J Robert Galvin, MD, MPH, MBA
COMMISSIONER

EMPLOYER'S COPY

**STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH**

NAME
ULKENS AUGUSTE

VALIDATION NO. 03-089928 LICENSE NO. 000644 CURRENT THROUGH 09/30/11

PROFESSION
ASBESTOS CONSULTANT-PROJECT MONITOR

Ulken Auguste
SIGNATURE

J Robert Galvin, MD, MPH, MBA
COMMISSIONER

WALLET CARD

**STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH**

NAME
ULKENS AUGUSTE

VALIDATION NO. 03-089928 LICENSE NO. 000644 CURRENT THROUGH 09/30/11

PROFESSION
ASBESTOS CONSULTANT-PROJECT MONITOR

Ulken Auguste
SIGNATURE

J Robert Galvin, MD, MPH, MBA
COMMISSIONER

Fuss & O'Neill EnviroScience, LLC

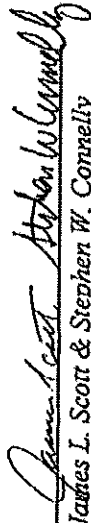
146 Hartford Road, Manchester, CT 06040 - (860) 646-2469

This is to certify that

Ulkens Auguste

xxx-xx-6277

has successfully completed the
8 Hr. Asbestos Project Monitor Refresher
Asbestos Accreditation under TSCA Title II
40 CFR Part 763

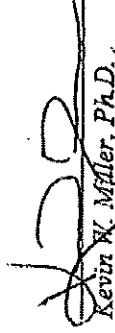

James L. Scott & Stephen W. Connelly
Principal Instructors

January 12 & 13, 2010

Date of Course

January 13, 2010; B

Examination Date & Grade


Kevin M. Miller, Ph.D.
Training Manager

APM-R-1/10-07

Certificate Number

January 13, 2011

Expiration Date

**INSTITUTE FOR ENVIRONMENTAL
EDUCATION, INC.**

16 Upton Drive, Wilmington, MA 01887
(Phone) 978.658.5272

IEE

IEE

This is to certify that
Ulken Auguste

*has completed the requisite training, and has passed
an examination for accreditation*

Asbestos Project Monitor

pursuant to Title II of the Toxic Substance Control Act, 15 U.S.C. 2646

February 2-6, 2009

Course Dates

Course Location

Institute for Environmental Education
16 Upton Drive
Wilmington, MA 01887

February 06, 2009

Examination Date

09-3811-173-239802

Certificate Number

February 06, 2010

Expiration Date

Wendy J. [Signature]

Training Director

Sent By: CORPCARE;

8606463945;

Aug-20-10 8:28;

Page 1/1

Mail
8-20-10
JH

CONNECTICUT OCCUPATIONAL MEDICINE PARTNERS, LLC

- St. Francis/Hartford
114 Woodland Street
Hartford, CT 06105
860-714-4270
FAX 060-714-8060
- St. Francis/Windsor
100 Deerfield Road
Windsor, CT 06095
860-714-9444
FAX 060-714-8000
- MedWorks/Dristol
975 Farmington Ave.
Dristol, CT 06010
860-509-0114
FAX 860-667-4418
- MedWorks/Newington
375 East Cedar Street
Newington, CT 06111
810-667-4418
FAX 860-667-1503
- CorpCare/Manchester
1075 Holland Turnpike
Manchester, CT 06040
800-647-4796
FAX 800-646-3945

Job Placement Examination Recommendations

NAME: Wheens Auguste DATE: 8/16/10
 COMPANY: FUSS EnviroScience PROSPECTIVE JOB: Enviro Tech

TYPE OF EXAMINATION:

- Preplacement
- Return to Work
- Periodic
- Fitness for Duty

The above named employee/applicant has been physically examined and pertinent medical history has been reviewed. Based upon this health assessment and knowledge of the job requirements as provided by the employer as described by the applicant, the following recommendations are made:

- No work restrictions. The employee is medically qualified to perform all necessary job functions safely under the indicated working conditions and environment.
- Medically qualified to perform all necessary job functions safely under the indicated working conditions and environment, provided the restrictions listed below can be accommodated, and/or the recommendations listed below can be satisfied.
- Not medically qualified for the prospective job for which he/she has been examined. Reasons are listed below.
- Placement delayed pending further medical evaluation. Required evaluation procedures are listed below.

RESTRICTIONS, RECOMMENDATIONS, COMMENTS:

DATE: 8-16-10 PHYSICIAN: [Signature] SIGNATURE: [Signature]

White Copy — Patient

Yellow Copy — Company

Pink Copy — Chart

EnviroScience Consultants, Inc.
795 North Mountain Road
Newington, CT 06111
Phone: (860) 953-2700 Fax: (860) 953-3203

QUALITATIVE FIT TEST RECORD

EMPLOYEE INFORMATION

Name: Ulkevs Auguste Date of Birth: Sept 16, 79

Date of Last Pulmonary Function Test: August 2009 Passed Failed

RESPIRATOR(S) FIT TESTED

Manufacturer: North
Type: 1/2 face
Model: 71700
Size: 30 L
Approval Number: /

TEST AGENT AND RESULTS OF TEST

Irritant Smoke Isoamyl Acetate Saccharin Aerosol

Passed Failed Comments: Person passed here

TEST ADMINISTRATOR

Name: Ethan T. Platt Date: 04/06/2010
Signature: [Signature] Next Test Due Date: 04/06/2011