

August 16, 2013

Ms. Jennifer Hall Executive Director Ann Arbor Housing Commission 404 N. Ashley Ann Arbor, Michigan 48103

Re:

Lead Based Paint Hazard Abatement and Clearance
Unit # 1725, Basement Floor

**Green Baxter Court** 

1737 Green Road, Ann Arbor, Michigan

ERG Project 1155.001

Dear Ms. Hall,

Environmental Resources Group, LLC (ERG) has completed the Lead Based Paint Hazard Abatement and Clearance for the referenced property in Ann Arbor, Michigan.

ERG contracted Environmental Maintenance Engineers (EME [a State of Michigan Licensed Lead Abatement Contractor]) to abate the identified lead based paint hazard and American Environmental Consultants (AEC [a State of Michigan Certified Lead Inspector/Risk Assessor]) to perform the clearance work.

The Lead Hazard was abated by EME on July 15, 2013. Subsequent to the abatement work, AEC performed a Lead Hazard Clearance. The results of the Lead Hazard Clearance indicated that the abatement work was adequate to address the identified Lead Hazard.

Please refer to the attached EME Abatement Closeout Documents and AEC Lead Hazard Clearance report for details and analytical results.

Thank you for the opportunity to provide this service to you. If you have any questions, please contact us at 248-773-7986.

Sincerely,

**ENVIRONMENTAL RESOURCES GROUP, LLC** 

Andrew J. Foerg, CPG Senior Project Manager

**Enclosures** 

# Environmental Maintenance Engineers, Inc.

has satisfactorily met the requirements of the Michigan Lead Abatement Act of 1998, and is hereby recognized as a

## **LEAD ABATEMENT CONTRACTOR**

Contractor number C-00030

This certification entitles the named persons to the rights and privileges afforded by the Act, as well as the authority to perform regulated lead-based paint activities in the State of Michigan until December 31, 2013.

Michigan Department Healthy

of Community Health

Homes

Section

Mendger, HHS

October 19, 2012

Authority, P.A.368 of 1978, as amended

DCH-0650 (6/99)

# Anited States Environmental Protection Agency



## This is to certify that

Environmental Maintenance Engineers, Inc.

has fulfilled the requirements of the Toxic Substances. Control Act (TSCA) Section 402, and has received certification to conduct leadunting activities pursuant to 40 CFR Part 745.89 based paint renovation, 1

# In the Jurisdiction of:

All EPA Administered States, Tribes, and Territories

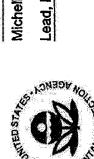
This certification is valid from the date of issuance and expires June 23, 2015

NAT-57748-1

Certification#

June 10, 2010

Issued On



nate L

Michelle Price, Chief

Lead, Heavy Metals, and Inorganics Branch



### NOTIFICATION OF LEAD ABATEMENT ACTIVITY

Any [firm] conducting lead-based paint [abatement] activities in the state of Michigan must notify the department of that activity not less than three (3) business days prior to its commencement, as required by '333.5472 of the Michigan Lead Abatement Act of 1998, as amended. EME Job #: 13-358a

ALL INFORMATION IS REQUIRED. Incomplete notifications will not be approved.

1		onth date year 7 / <u>9</u> / 20 <u>13</u>	If se	nding a revision, giv	e revision #:				
2	Contractor Name:	Environmental M	1aintenan	ce Engineers, Inc.	MI Certifi	cation #:			
40 . 40.00		.791.2600	C	Contact Person:	Michael Kelly				
	Certified Lead Sup for this project:	<b>pervisor</b> Jason H	layes She	een	MI Certifi	cation #: P-00036			
0	Lead-based paint w	as identified by:	K Risk As	sessor 🔲 Inspecti	on	ımed	************		
J	Inspector/Risk Assessor Name:	Environmental Re			MI Certification #: P-				
	Housing Agency:	Ann Arbor Housin	g Commi	ssion					
V	Agency Contact Person Name:	Andy Foerg Phone #: 248.763.36.  Detail scope of work and identify abatement work areas:							
		Detail scope of work and identify abatement work areas:							
	SCOPE OF WORK:	X Interior     Exterior     Encapsulation     Enclosure     Component Re     Paint Removal     Soil	moval	Clean-up some lea	d dust in bas	sement Unit 1725			
4	Building Owner:	Ann Arbor Housing	g Comm	Owner Phone #:					
2	Project / Site Address:	Green Baxter, 173	7 Green	City: Ann A	vrbor	Zip:			
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	prepared by the follow professional:	4 199 1990 1990 1990 100 100 100 100 100	Michael K	elly	M	Certification #: P-000	096		
	<u> </u>	15, 2013		Ending Date:	July 15, 20	)13			
	Scheduled 8:00a work hours:	am [	] am ] pmt	o 4:00pm	☐ am ☐ pm	☐ Weekends include	ed		

1. Complete Form

Return to HHS at least three (3) business days prior to the commencement of work MAIL or FAX to:

MDCH – Healthy Homes Section P.O. Box 30195 Lansing, MI 48909 Attn: Compliance Officer

FAX: 517-335-8800

P 1 07/10/2013 06:08 Serial No. AOED012003492 TC: 278250

Addressee	Start Time	Time	Prints	Result	Note	
MDCH	07-10 06:06	00:01:59	001/001	OK		

Note

HR: Timer TX, POL: Polling, ORG: Original Size Setting, FHE: Frame Erase TX, IX: Mixed Original TX, CALL: Manual TX, CSRC: CSRC, FMD: Forward, PC: PC-Fax, ND: Double-Sided Binding Direction, SP: Special Original, FCDDE: F-code, RTX: Re-TX, LY: Relay, HBX: Confidential, BUL: Bulletin, SIP: SIP Fax, IPADA: IP Address Fax, -FAX: Internet Fax

Result OK: Communication OK, S-OK: Stop Communication, PW-OFF: Power Switch OFF, TEL: RX from TEL, NG: Other Error, Cont: Continue, No Ans: No Answer, Refuse: Receipt Refused, Busy: Busy, M-Full: Memory Full, LOVR: Receiving length Over, POVR: Receiving page Over, FIL: File Error, DC: Decode Error, MDN: MDN Response Error, DSN: DSN Response Error.



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2	Contractor Name	: Environmental Mainte	enance Engineers, In	c. Wi Centification	#: C-0030				
	The state of the s	3.791.2600	Contact Person:	Michael Kelly					
o ac de súltificación	Certified spend Su	Jason Haye:		MI Certification	##: P-00036				
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	Housing Apency	Agency: Ann Arbor Housing Commission							
	Agency Contact Parson Name:	Andy Foerg	well and the second sec	Phone #:	248.763.3639				
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	Project / Site Address;	Green Baxter, 1737 Gr		nn Arbor Zipi					
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5	Start Date: July	/15, 2013	Ending Dat	le: July 15, 2013					
	Scheduled work hours: 8:00	am II am	to 4:00pm	100	eekends included				

Complete Form
 Return to HHS at least three (3) business days prior to the commencement of work

MAIL or FAX to:

MDCH - Healthy Homes Section
P.O. Box 30195
Lansing, MI 48909
Attn: Compliance Officer
FAX: 517-335-8800

#### Michigan Department of Community Health Division of Environmental and Occupational Epidemiology

#### Lead Hazard Remediation Program 13-3580

All abatement projects must not be started before an occupant protection plan specific to the structure is developed by a Michigan certified Abatement Project Designer or Abatement Supervisor. The plan shall describe measures and management procedures that shall be taken to protect the building occupants. (Michigan Rule No. 325,9917 (4) (a) & (b)

Occupant Protection

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<u>k</u>	
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Acknowledgement (Optional)	
This occupant protection plan has been reviewed by the to the conditions set forth to protect occupants from lead	undersigned occupant or owner and all parties agree d-based paint exposure.
T Convert T Community	
Occupant Owner Name (Please Print)	Date Signature
MICHAEL KELLY P-0009C  Contractor Name (Please Print)	7-10-13 J
The state of the s	Date Signature

DCH-1109 (02/02)

Authority: Act 368 of P.A. of 1978, as amended

The provision of information relative to this form is mandatory pursuant to R 325.9917 (4) (a) and (b)

The use of this form version is optional.

#### Michigan Department of Community Health Division of Environmental and Occupational Epidemiology

Lead Hazard Remediation Program # 13-358 4

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#### ETC Training Services Group

38900 W. Huron River Drive Romulus, MI 48174-1159 (734) 955-6600

PRESENTS

Jason Hayes-Sheeen

SS#:

with certification for having successfully completed the 8 hour/1 day which meets the requirements for

#### **Lead Abatement Supervisor Refresher Training Course**

in accordance with the requirements of 40 CFR 745.225, (d)3;HUD Guidelines for Lead Supervisors

Course Dates: March 1, 2011 6 months - 3rd Party Exam Eligibility Testing Valid Through: September 1, 2011 (3 years) Training Valid Through: March 1, 2014

GWM 3 Trajuer Anacy Wistoptt.
ETC President



Jason Hayes-Sheen

Lead Supervisor

Cert. number P- 00036

Annual fee due by March 31, 2014

Appropriate refresher training and exam must be taken to renew this certification before March 31,2014



Certificate Namber: 8 - 1 - 28484 - 10 - 2755

#### ETC Training Services Group

38900 W. Huron River Drive Romulus, MI 48174-1159 (734) 935-6690 PRESENTS

Jason H. Sheen

19155 Lexington Redford, MI 48240 SSI: \*\*\*-\*-7352

with certification for having successfully completed the 8 hours/i day which meets the requirements for

#### **Certified Renovator Initial Training Course**

40 CFR 745.90(a) — [EPA] Renovator Certification: Load Safety for Renovation, Report, and Pelisting: 24 CFR 35.1330 — [HUD] Guidelines for Interim Controls, Remodeling, and Renovation;

Course Dates: March 6, 2010

Matt Ducar\_ Trainer

Strang Walant

ETC President

## LEAD HAZARD CLEARANCE

FOR

ENVIRONMENTAL RESOURCES GROUP LLC. 28003 CENTER OAKS COURT, SUITE 106 WIXOM, MICHIGAN 48393

AT

GREEN BAXTER COURT 1725 GREEN RD ANN ARBOR, MICHIGAN 48105

PREPARED BY:

AMERICAN ENVIRONMENTAL CONSULTANTS, LLC

12838 GAVEL DETROIT, MICHIGAN 48227 OFFICE: 313-491-2600 FAX: 313-491-2601

PROJECT NUMBER 1449-13005



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****	3.1	Scope Of Work
	3.2	Visual Inspection
	3.3	Regulatory Standards
	3.4	Analytical Results
4		Conclusions
7-	A 1	Conclusions

#### **APPENDICES**

#### 1 GENERAL PROVISIONS

#### 1.1 Introduction

Matt Rodgers, of American Environmental Consultants (AEC), LLC performed a lead hazard clearance inside unit 1725 at Green Baxter Court in Ann Arbor, Michigan on July 15, 2013. Mr. Rodgers is a certified Lead Inspector and Risk Assessor through the Michigan Department of Community Health, Certification Number P-04247. The owner of this property is The Ann Arbor Housing Commission which is located 727 Miller Ave. in Ann Arbor, MI and can be reached at 734-794-6720.

#### 1.2 Purpose

The purpose of this lead hazard clearance is to determine if the work that was performed at the residence referenced above was done in a complete and thorough manner and that the lead hazard no longer exists at the time of the clearance for the areas stated in the report.

#### 1.3 Contractor

The lead hazard correction activities were performed by Environmental Maintenance Engineers, Inc located at 25851 Trowbridge St in Inkster, MI 48141; Phone (313)791-2600 on 7/15/13. The contractor had performed activities and utilized approved hazard elimination techniques in accordance with all State of Michigan and HUD Guidelines to eliminate the hazard.

#### 2 SAMPLING PROCEDURES

#### 2.1 Laboratory

All samples for the clearance were analyzed by the Accurate Analytical Testing LLC located at 12950 Haggerty Rd in Belleville, MI 48111 Phone (734) 699-5227. The laboratory participates and is accredited in the American Industrial Hygiene Association (AIHA) Environmental Lead Laboratory Accreditation Program (ELLAP) and performs quality control rounds.

#### 2.2 Soil Sampling

Soil samples were collected if lead hazard elimination work took place in areas with soil that has or could potentially have elevated levels of lead due to the work performed. Samples were collected from the upper 1/2 inches of soil and were analyzed by an EPA-approved laboratory. Results were reported in parts per million of sampled soil (ppm).

#### 2.3 Dust Wipe Sampling

Dust wipe samples, were collected according to HUD Guidelines and Michigan Lead Hazard Remediation Program (LHRP) requirements in each area where lead hazard elimination was performed. Sample collection protocol is as follows:

An area located on the surface to be sampled was measured (between 0.1 ft<sup>2</sup> and 2 ft<sup>2</sup>) and marked.

> A single approved sampling wipe (disposable towelette) was opened with a gloved hand and wiped across the sampling area in a series of S patterns. Composite dust wipe samples are prohibited in Michigan.

> The wipe was then placed into an airtight container labeled with the site location

identification, sample location and size of area sampled.

Samples were analyzed by an EPA- approved laboratory, and results were reported in micrograms per square foot (µg/ft<sup>2</sup>).

#### 3 RESULTS

#### Scope of Work 3.1

The scope of work inside unit 1725 at Green Baxter Court was to correct the lead in dust hazard on the floor in the basement using interim control methods. The floor and all other lateral surfaces such as the tops of appliances were cleaned in preparation for final clearance testing.

#### Visual Inspection 3.2

On July 15, 2013 at inside unit 1725 at Green Baxter Court, the visual inspection of the areas and surfaces referenced above were all deemed adequately clean and for final clearance testing.

#### Regulatory Standards 3.3

EPA guidelines and HUD clearance guidelines for LBP hazard are:

Bare soil (play areas)	equal to or exceeding 400 parts per million (ppm) lead
Bare soil (other)	equal to or exceeding 1200 ppm lead
Dust hazard (floors)	equal to or exceeding 40 micrograms per square foot of sampled surface area (µg/ft²)
Dust hazard (window sill)	equal to or exceeding 250 μg/ft <sup>2</sup>
Dust Hazard (window trough)	EPA: No level defined; Michigan LHRP: 400 μg/ft² lead

If any of the clearance samples are above the regulatory standards the area is to be re-cleaned and clearance sampling repeated.

3.4 Analytical Results

Detailed sample results, sample locations, and field notes are located in:

> Appendix A for Laboratory Results

> Appendix B for Site Maps and Sample Locations

> Appendix C for Field Notes

The following table below describes the clearance samples that were taken for the lead clearance on July 15, 2013

Sample Number	Sample Location/Component	Type of Sample	Surface Type and Area	Laboratory Results	Pass or Fail
W-1	BASE-NEAR STAIR	Wipe	Floor 1.00 Sq Ft	$< 10 \mu\mathrm{g/ft}^2$	Pass
W-2	BASE- NEAR WASHER	Wipe	Floor 1.00 Sq Ft	< 10 μg/ft <sup>2</sup>	Pass
W-3	BASE-STAIRS	Wipe	Floor 1.00 Sq Ft	< 10 μg/ft <sup>2</sup>	Pass
W-4	BASE- STAIRS	Wipe	Floor 1.00 Sq Ft	$< 10 \mu \text{g/ft}^2$	Pass
FB	FIELD BLANK	Wipe	N/A	N/D	Pass

On July 15, 2013, the lead dust wipe samples taken from the floor in the basement near the stairs, the floor in the basement near the washer, the basement stairs and also the field blank were all below the EPA Regulatory Limit.

#### 4 <u>CONCLUSIONS</u>

The work that was performed in the referenced residence passed the visual and clearance requirements of the State of Michigan Lead Hazard Remediation Program and the HUD guidelines.



No re-sampling is required at this time. The reevaluation schedule is as follows: In 2 years all lead-based paint must be reevaluated by a certified risk assessor. On going monitoring is required for known lead based paint listed below.

LOCATION OF LEAD BASED PAINT	WALL	COMPONENT	DESCRIPTION
2 <sup>ND</sup> FLOOR STAIR WELL	В	WALL	INTACT



The information in this report is true and accurate representation of the clearance sampling at the time of the sampling based on the professional judgment of:

Matt Rodgers

MI Certified Lead Inspector Risk Assessor

Certification Number: P-04247

313-491-2600



### Appendix A Laboratory Results



12950 Haggerty Road Belleville, MI 48111 Ph: (734) 699-labs; Fax: (734) 699-8407

#### Certificate of Analysis: Lead in Dust Wipe by NIOSH Method 7082

American Environmental Consultants, LLC Client:

12838 Gavel

Detroit, MI 48232

Attn:

Jeff Fox

Phone: 313-491-2600

Email: jfox@aecmi.net

Fax: 313-491-2601

AAT Project:

158246

Sampling Date:

07/15/2013

Date Received:

07/18/2013 07/19/2013

Date Analyzed: Date Reported :

07/19/2013

Analyst:

Ranjana Valecha

Project Location:

1725 GREEN BAXTER

Client Project :

1725 GREEN BAXTER

Lab Sample ID	Client Code	Sample Description	Length (inch)	Width (inch)	Area (Sq ft)	Results Lead µg/ft2*
1580228	i i	BASE-NEAR ST FL	12	12	1,00	<10.00
1580229	2	BASE-NEAR WASHER FL	12	12	1.00	<10.00
1580230	3	BASE-STAIRS FL	12	12	1,00	<10.00
1580231	4	BASE-STAIRS FL	12	12	1.00	<10.00
1580232	FB	FIELD BLANK	N/A	N/A	N/A	N/D

Analyst Signature

(ND=Not Detected, N/A Not Available, RL Reporting Limit, Analytical Reporting Limit is 10 ug/sample). For true values assume (2) significant figures. The method and batch CIC is acceptable unless otherwise stated. EPA HUD Regulatory Limits: 40 ug/ft2 (Riors Carpeted/uncarpeted), 250 ug/ft2 (Window Sill/Stools), 400 ug/ft2 (Mindow Trough /Well/Ext Concrete Surfaces). The laboratory operates in accord with ISO 17025 guidelines and holds limited scopes of accreditation under AIHA and NY State DOH EICAP programs. These results are submitted pursuant to AAT LLC current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. Analytical results relate to the samples as





American Environmental Consultants, LLC

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1725 GREEN BAXTER

3 <b>2</b> 07 (17)	* F	Client Code	Analysis Requested	Completed
Samp	ile		Dust Wipe	07/19/2013
15802	228	1	2.772.4.94	07/19/2013
15802	229	2	Dust Wipe	07/19/2013
1580	230	3	Dust Wipe	
1580	231	4	Dust Wipe	07/19/2013
1580232		FB	Dust Wipe	07/19/2013
	202	*A**C		

Reviewed By

Quality Assurance Coordinator - Robert A Theys

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#### Appendix B

**Site Maps and Sample Locations** 

