

## LEAD HAZARD EVALUATION NOTICE

Address: 1108 Barnegat Avenue, Unit #1, Seaside Heights, New Jersey 0875

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Evaluation Completed (circle one): Paint Inspection      Paint Testing

Risk Assessment

Date: 10/21/13

### Summary of Results:

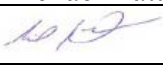
X No lead-based paint or lead-based paint hazards were found.

       Lead-based paint and/or lead-based paint hazards were found. See attachment for details

Contact person for more information about the risk evaluation:

Printed name: Feliks Kiselyuk  
Signature: \_\_\_\_\_  
Date: 10/31/13  
Organization: Sky Environmental Services, Inc.  
Street: 140 Boulevard  
City & State: Mountain Lakes, New Jersey  
Zip: 07046  
Phone #: 201-679-2250

Person who prepared this notice:

Printed name: Michael Rattacasa  
Signature:   
Date: 10/30/13  
Organization: Creative Environment Solutions Corp.  
Street: 39 West 37<sup>th</sup> Street, 14<sup>th</sup> Fl.  
City & State: New York, New York,  
Zip: 10018  
Phone #: 212-290-6323

<b>Contaminated Soil</b>		
<b>Area</b>	<b>mg/g (ppm)</b>	<b>Location</b>
<input checked="" type="checkbox"/> None		
<input type="checkbox"/> Perimeter	_____ mg/g (ppm)	
<input type="checkbox"/> Play Area	_____ mg/g (ppm)	
<input type="checkbox"/> Other	_____ mg/g (ppm)	

<b>Contaminated Dust</b>		
<b>Area</b>	<b>µg/SF</b>	<b>Location</b>
<input checked="" type="checkbox"/> None		
<input type="checkbox"/> Windowsill	_____ µg/SF	
<input type="checkbox"/> Floor	_____ µg/SF	
<input type="checkbox"/> Other	_____ µg/SF	
<input type="checkbox"/> Other	_____ µg/SF	

<b>Other Hazards</b>				
<b><u>Component*</u></b>	<b><u>Location</u></b>	<b><u>Condition</u> (good, fair, poor)</b>	<b><u>Friction or</u> <u>Impact Surface?</u></b>	<b><u>Lead Content</u> (if known)</b>
1.				_____ mg/cm <sup>2</sup> (ppm)
2.				_____ mg/cm <sup>2</sup> (ppm)
3.				_____ mg/cm <sup>2</sup> (ppm)
4.				_____ mg/cm <sup>2</sup> (ppm)
5.				_____ mg/cm <sup>2</sup> (ppm)
6.				_____ mg/cm <sup>2</sup> (ppm)
7.				_____ mg/cm <sup>2</sup> (ppm)
8.				_____ mg/cm <sup>2</sup> (ppm)
9.				_____ mg/cm <sup>2</sup> (ppm)
10.				_____ mg/cm <sup>2</sup> (ppm)
11.				_____ mg/cm <sup>2</sup> (ppm)
12.				_____ mg/cm <sup>2</sup> (ppm)
13.				_____ mg/cm <sup>2</sup> (ppm)
14.				_____ mg/cm <sup>2</sup> (ppm)

\* Components include but are not limited to (interior and exterior) windows, doors, trim, fences, porches, walls and floors.



## **Creative Environment Solutions Corp.**

39 West 37<sup>th</sup> Street, 14<sup>th</sup> Floor, New York, NY 10018

Phone: 212.290.6323 Fax: 212.290.6325

LICENSED & APPROVED by NYS DOH/DOL/DOS, NYC DOB/DEP, FDNY, PIE

### LIMITED LEAD-BASED PAINT RISK ASSESSMENT REPORT

Site Location:

**1108 Barnegat Avenue,  
Unit #1  
Seaside Heights, New Jersey 08751  
SRP0037053**

Prepared for:

**Gilbane Building Company  
New Jersey LLRP Program  
3150 Brunswick Pike, Suite 300  
Lawrenceville, New Jersey 08648**

Prepared by:

**Creative Environment Solutions Corp.**  
39 West 37<sup>th</sup> Street, 14<sup>th</sup> Floor  
New York, New York 10018

October 31, 2013

**EXECUTIVE SUMMARY**

Creative Environment Solutions Corp. (CES) was retained by Gilbane Building Company; located at, 3150 Brunswick Pike, Suite 300, Lawrenceville, New Jersey 08648, to perform a limited Risk Assessment for Lead-Based Paint (LBP) at the Private Residence; located at, 1108 Barnegat Avenue, Unit #3, Seaside Heights, New Jersey 08751. The inspection was conducted in conjunction with the residence's participation in the New Jersey Landlord Repair Program (LLRP).

CES' New Jersey Department of Health and Senior Services certified Lead Paint Inspector/Risk Assessor, Feliks Kiselyuk, performed a LBP Risk Assessment at the above-referenced location. The inspection was conducted to identify the presence of any LBP and/or lead hazards located within the aforementioned interior and/or exterior of the residence. Mr. Kiselyuk utilized an [Innov-X System Alpha Series X-Ray Fluorescence Spectrometer] (XRF) to determine the presence or absence of lead in paint.

The analytical results from this Assessment effort identified the following lead-based paint (LBP) and Lead hazards, as defined by the United States Environmental Protection Agency (USEPA) and/or the department of Housing and Urban Development (HUD) standards:

Interior LBP

- No LBP was identified on the interior.

Exterior LBP

- No LBP was identified on the exterior.

Existing Lead-Based Paint Hazards and Potential Lead Hazards

There are no areas coated with LBP that is deteriorated and currently present existing lead-based paint hazards.

No dust hazards were identified.

No soil lead hazards were identified.

There were no areas coated with LBP that is intact and that do not currently present lead hazards. However, the upcoming renovation plans include work inside the house and scraping and repainting the exterior. If these renovations occur, lead-safe work practices will need to be implemented during the project to ensure that lead hazards are not created.

Future renovations plans were not provided to CES at the time of the inspection.

Please refer to the enclosed for further inspection details, XRF results and/or laboratory analytical results.

Please refer to Table I for a full summary of inspection results.

**IDENTIFYING INFORMATION**

A Lead Hazard Risk Assessment and Limited LBP Testing (Assessment) was conducted at 1108 Barnegat Avenue, Unit #1, Seaside Heights, New Jersey 08751 on October 21, 2013. The Assessment was conducted by Feliks Kiselyuk, (025263). The purpose of the Assessment was to identify the presence of lead hazards on and/or in a limited number of surfaces inside and outside the residence, as well as to identify the presence of deteriorated lead-based paint (LBP) and LBP that may be disturbed during planned renovation and/or restoration activities.

**PROPERTY RENOVATION AND REPAIR HISTORY**

Historic renovation and repair history for the subject property were not provided to CES at the time of the assessment.

## PREVIOUS SAMPLING AND TESTING

Records regarding previous lead sampling and/or testing at the subject property were not provided to CES at the time of the assessment.

## IDENTIFIED LEAD HAZARDS

The subject property was impacted by Hurricane Sandy; therefore, all materials coated with LBP have the potential to be impacted by future renovation and/or restoration activities.

### Existing Lead Hazards

The following areas are coated with Lead-Based Paint (LBP) that is *deteriorated* and currently present existing lead-based paint hazards.

No areas were identified.

### Potential Lead Hazards

The following areas are coated with LBP that is intact and that do not currently present lead hazards. However, the upcoming renovation plans include work inside the house and scraping and repainting the exterior. If these renovations occur, lead-safe work practices will need to be implemented during the project to ensure that lead hazards are not created.

No areas were identified

Please refer to the enclosed for further inspection details, XRF results and/or laboratory analytical results.

## PAINT SAMPLING AND TESTING

Limited LBP Testing, conforming with HUD Guidelines 24 CFR 35 Section 35.930 (c), (d) was accomplished at this residence on surfaces found to have deteriorated paint and/or where it was indicated to the Assessor that planned renovation would occur. No paint chip samples were taken. On October 21, 2013, a total of forty three(43) tests (assays) were taken at a limited number of specified surfaces on the inside and outside of the residence using an x-ray fluorescence analyzer. Deteriorated paint and areas that were specified to be disturbed during the planned renovation project were tested. Lead concentrations that meet or exceed the HUD published levels identified as being potentially dangerous (e. g., greater than or equal to 1.1 milligrams per centimeter square [ $> 1.1 \text{ mg/cm}^2$ ]) were not encountered.

It should be noted that lead concentrations (in paint) that are less than the levels that identify a surface coating as LBP still have the potential of causing lead poisoning. Should these or any potential LBP painted components and/or surfaces be disturbed in any manner that generates dust, extreme care must be taken to limit its spread. It should be assumed that any and all painted surfaces, components, or surfaces not requested to be tested as part of this investigation, or any previous investigations, are coated with LBP, and that renovation or repair activities in these areas dictate the use of safe work practices that limit dust generation and area contamination.

## INTERIOR DUST SAMPLING

A total of five (5) single surface dust wipe samples were collected in an effort to help to determine the levels of lead-containing dust on the interior windowsills and floors. These samples were collected from areas most likely to be lead contaminated if lead-in-dust is present. These samples were collected in accordance with the requirements of ASTM Standard E-1728, Standard Practice for Field Collection of Settled Dust Samples Using Wipe Sampling Methods for Lead Determination by Atomic Spectrometry Techniques. USEPA and HUD regulations define the following as dangerous levels for lead dust in residences: floors –  $\geq 40 \text{ } \mu\text{g}/\text{ft}^2$  (micrograms per square foot); interior windowsills –  $\geq 250 \text{ } \mu\text{g}/\text{ft}^2$ ; and, interior window troughs –  $\geq 400 \text{ } \mu\text{g}/\text{ft}^2$ . Please refer to Appendix B – Laboratory Analytical Results for the detailed information regarding dust sampling results. According to the laboratory analytical results, none of the five (5) samples collected exhibited lead concentrations in excess of the aforementioned regulatory thresholds.

## SOIL SAMPLING AND LABORATORY INFORMATION

Three (3) composite soil samples were collected at this residence in accordance with the requirements of ASTM Standard E-1727, Standard Practice for Field Collection of Soil Samples for Lead Determination by Atomic Spectrometry Techniques. A Composite sample is a sample containing soil from a stated number of locations mixed together to form a Composite sample. The first sample consisted of soil from four locations on the west side at 1' on center (O.C.). The second sample was collected from four separate locations on the north side at 1' O.C. The third sample consisted of soil from four locations on the east side at 1' on center (O.C.). The samples were collected from bare soil areas only. The analytical results did not identify lead concentrations at or above the levels that the USEPA and HUD identifies as dangerous. Please refer to Appendix B – Laboratory Analytical Results for the detailed information regarding soil sampling results.

## ONGOING MONITORING

Ongoing monitoring is necessary in all dwellings in which LBP is known or assumed to be present. At these dwellings, the very real potential exists for LBP hazards to develop. Hazards can develop by means such as, but not limited to: the failure of lead hazard control measures; previously intact LBP becoming deteriorated; dangerous levels of lead-in-dust (dust lead) re-accumulating through friction, impact, and deterioration of paint; or, through the introduction of contaminated exterior dust and soil into the interior of the structure. Ongoing monitoring typically includes two different activities: re-evaluation and annual visual surveys. A re-evaluation is a risk assessment that includes limited soil and dust sampling and a visual evaluation of paint films and any existing lead hazard controls. Re-evaluations are supplemented with visual surveys by the Owner, which should be conducted at least once a year. Owner conducted visual surveys do not replace the need for professional re-evaluations. Visual surveys should confirm that all Paint with known or suspected LBP are not deteriorating, that lead hazard control methods have not failed, and that structural problems do not threaten the integrity of any remaining known, assumed or suspected LBP. The partial table below is taken from Table 6.1, Standard Re-evaluation Schedules, as found in the HUD publication entitled: Guidelines for the Evaluation and Control of LBP Hazards in Housing, dated June 1995, with September 1997 revisions. It is intended as a guideline for the Owner to assess the condition of areas where hazard control activities occurred.

Factors at this residence require the use of Ongoing Monitoring Schedule item number one (1), to dictate monitoring protocol. Visual surveys by the Owner should occur on at least a yearly basis for all painted surfaces. All surfaces that have undergone the hazard control strategy of Interim Controls, Encapsulation or Enclosure should also be checked during this survey. If components are replaced (windows), no re-evaluation or visual survey would be needed, since the LBP would have been removed with the old windows. Please refer to your community development agency, housing authority, or other applicable agency for additional local/regional regulations and guidelines governing re-evaluation activities.

### Standard Re-evaluation Schedule

Schedule	Original Evaluation Results	Action taken	Re-evaluation Frequency & Duration	Visual Survey Schedule
1	Combination risk assessment/inspection finds no leaded dust or soil and no lead-based paint	None	None.	None

## DISCLOSURE REGULATIONS

A copy of this complete report must be made available to new lessees (tenants) and/or must be provided to purchasers of this property under Federal law before they become obligated under any future lease or sales contract transactions (Section 1018 of Title X – found in 24 CFR Part 35 and 40 CFR Part 745), until the demolition of this property. Landlords (Lessors) and/or sellers are also required to distribute an educational pamphlet developed by the EPA entitled “Protect Your Family From Lead in Your Home” and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from LBP hazards.

## **FUTURE RENOVATION AND/OR REHABILITATION PRECAUTIONS**

It should be noted that during this Assessment, a limited number of areas were tested for the presence of LBP. All LBP, dust, and soil hazards that were identified are addressed in this report. However, LBP, dust lead hazards, and/or soil lead hazards may be present at other locations of the property. Additional paint testing should precede any future remodeling activities that occur at any untested areas. Additional dust and/or soil sample collection and analysis should follow any hazard control activity, repair, remodeling, or renovation effort, and any other work efforts that may in any way disturb LBP and/or any lead containing materials. These Assessment activities will help the Client and owner to ensure the health and safety of the occupants and the neighborhood. Details concerning lead safe work techniques and approved hazard control methods can be found in the HUD publication entitled: "Guidelines for the Evaluation and Control of LBP Hazards in Housing" (June 1995 & 1997 Revision).

## **LEAD HAZARD CONTROL OPTIONS AND COST ESTIMATES**

Lead-safe work practices and worker/occupant protection practices complying with current EPA, HUD and OSHA standards will be necessary to safely complete all work involving the disturbance of LBP coated surfaces and components. In addition, any work considered Lead hazard control will enlist the use of interim control (temporary) methods and/or abatement (permanent) methods. It should be noted that all lead hazard control activities have the potential of creating additional hazards, or even creating hazards that were not present before. All persons and/or firms performing lead hazard control activities must have received proper training in Lead-Safe Work Practices and/or Lead Abatement. Details for the listed lead hazard control options and issues surrounding occupant/worker protection practices can be found in the publication entitled: Guidelines for the Evaluation and Control of LBP Hazards in Housing (June 1995 & 1997 Revision) published by the HUD, as well as in the Occupational Safety and Health Administration (OSHA) regulations found in 29 CFR, Part 1926.62, known as the OSHA Lead Exposure in Construction Industry Standard.

The associated cost estimates, unless otherwise noted, include the labor and materials to accomplish the stated activity and most additional funds typically found to be necessary to complete worker protection, site containment, and cleanup procedures. These are approximate estimates only and due to a variety of potential factors, may not accurately reflect all local cost factors. A precise estimate must be obtained from a certified LBP abatement contractor or a contractor trained in lead safe work practices. Properly trained and/or licensed persons, as well as properly licensed firms (as mandated) should accomplish all abatement/interim control activities conducted at this residence.

Interim controls, as defined by HUD, means a set of measures designed to temporarily reduce human exposure to LBP hazards and/or lead containing materials. These activities include, but are not limited to: component and/or substrate repairs; paint and varnish repairs; the removal of dust-lead hazards; renovation; remodeling; maintenance; temporary containment; placement of seed, sod or other forms of vegetation over bare soil areas; the placement of at least 6 inches of an appropriate mulch material over an impervious material, laid on top of bare soil areas; the tilling of bare soil areas; extensive and specialized cleaning; and, ongoing LBP maintenance activities.

Abatement, as defined by HUD, means any set of measures designed to permanently eliminate LBP and/or LBP hazards. The product manufacturer and/or contractor must warrant abatement methods to last a minimum of twenty (20) years, or these methods must have a design life of at least twenty (20) years. These activities include, but are not necessarily limited to: the removal of LBP from substrates and components; the replacement of components or fixtures with lead containing materials and/or lead containing paint; the permanent enclosure of LBP with construction materials; the encapsulation of LBP with approved products; the removal or permanent covering (concrete or asphalt) of soil-lead hazards; and, extensive and specialized cleaning activities.

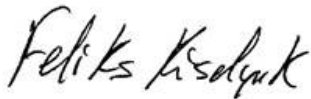
## **Special Cleaning Preceding Lead Hazard Control Activities**

Before any lead hazard control activities begin, the structure and site must be inspected and pre-cleaned following HUD specified cleaning protocols, as detailed in the Guidelines for the Evaluation and Control of LBP Hazards in Housing (June 1995 & 1997 Revision), published by the U.S. Department of Housing and Urban Development. Some of the required steps include removing large debris and paint chips followed by HEPA vacuuming of all horizontal surfaces (floors, windowsills, troughs, etc.). The cleaning protocols described in this publication can assist the contractor in doing a preliminary cleaning and improving the chances of passing clearance inspections after remediation.

**LIMITATIONS AND CONDITIONS**

CES has performed the tasks set forth above in a thorough and professional manner consistent with industry standards. CES cannot guarantee and does not warrant that this limited assessment has revealed all adverse environmental conditions affecting the site. Nor can CES warrant that the assessment requested will satisfy the dictates of, or provide a legal defense in connection with, environmental laws or regulations. The observations and findings were representative of the conditions from the site on the date of inspection. Often materials are located in confined or inaccessible locations with little or no visible manifestation of their presence. These materials may be found in various areas under existing flooring materials, above ceilings, behind walls, materials within fixtures, electrical wire casing, or buried pipes and wires. Due to the potential for hidden materials to be present, it may not be possible to determine if all suspect building materials have been identified, located, and subsequently tested. Destructive measures to access these and other potentially hidden materials were not employed by CES as part of this project. However, CES does warrant that its investigations and methodology reflect our best efforts based upon prevailing standard of care in the environmental industry.

The information contained in this report was prepared based upon specific parameters and regulations in force at the time of this report. The information herein is only for the specific use of the client and CES. CES accepts no responsibility for the use, interpretation, or reliance by other parties on the information contained herein, unless written authorization has been obtained from CES.



Feliks Kiselyuk  
Certified Lead Paint Inspector/Risk Assessor

10/31/2013  
Date



Michael J. Rattacasa  
Operations Director

10/31/2013  
Date



# **APPENDIX A**

## XRF Testing Results Table

**1108 Barnegat Avenue, Unit 1  
Seaside Heights, New Jersey 08751**

Reading #	Date	Location	Room ID	Wall/ Elevation	Component	Substrate	Condition	Pb	Pass Fail Standard
1	10/21/2013		Standardization						PASS
2	10/21/2013		Calibration	Wall 1	Wall	Plaster/sheetrock	Good	0	Negative
3	10/21/2013		Calibration	Wall 1	Wall	Plaster/sheetrock	Good	0	Negative
4	10/21/2013		Calibration	Wall 1	Wall	Plaster/sheetrock	Good	0	Negative
5	10/21/2013	Unit 1	Room 1	Wall 1	Wall	Plaster/sheetrock	Poor	0	Negative
6	10/21/2013	Unit 1	Room 1	Wall 1	Ceiling	Plaster/sheetrock	Good	0	Negative
7	10/21/2013	Unit 1	Room 1	Wall 1	Door Frame	Wood	Good	0	Negative
8	10/21/2013	Unit 1	Room 1	Wall 1	Door	Metal	Good	0	Negative
9	10/21/2013	Unit 1	Room 2	Wall 1	Wall	Plaster/sheetrock	Poor	0	Negative
10	10/21/2013	Unit 1	Room 2	Wall 1	Ceiling	Plaster/sheetrock	Good	0	Negative
11	10/21/2013	Unit 1	Room 3	Wall 1	Ceiling	Plaster/sheetrock	Good	0	Negative
12	10/21/2013	Unit 1	Room 3	Wall 2	Wall	Plaster/sheetrock	Poor	0	Negative
13	10/21/2013	Unit 1	Room 4	Wall 2	Wall	Plaster/sheetrock	Poor	0	Negative
14	10/21/2013	Unit 1	Room 4	Wall 2	Ceiling	Plaster/sheetrock	Good	0	Negative
15	10/21/2013	Unit 1	Rear Entry	Wall 1	Ceiling	Plaster/sheetrock	Good	0.17	Negative
16	10/21/2013	Unit 1	Rear Entry	Wall 1	Wall	Plaster/sheetrock	Poor	0	Negative
17	10/21/2013	Unit 1	Rear Entry	Wall 2	Door Frame	Wood	Poor	0	Negative
18	10/21/2013	Unit 1	Rear Entry	Wall 2	Door	Metal	Poor	0	Negative
19	10/21/2013	Unit 1	Room 5	Wall 1	Wall	Plaster/sheetrock	Poor	0	Negative
20	10/21/2013	Unit 1	Room 5	Wall 1	Ceiling	Plaster/sheetrock	Good	0	Negative
21	10/21/2013	Unit 1	Room 5	Wall 3	Window Sill	Wood	Fair	0	Negative
22	10/21/2013	Unit 1	Room 6	Wall 1	Wall	Plaster/sheetrock	Poor	0	Negative
23	10/21/2013	Unit 1	Room 6	Wall 1	Ceiling	Plaster/sheetrock	Good	0	Negative
24	10/21/2013	Unit 1	Room 6	Wall 3	Window Sill	Wood	Fair	0	Negative
25	10/21/2013	Unit 1	Room 7	Wall 1	Door Frame	Wood	Poor	0	Negative
26	10/21/2013	Unit 1	Room 7	Wall 1	Wall	Plaster/sheetrock	Good	0	Negative
27	10/21/2013	Unit 1	Room 7	Wall 1	Ceiling	Plaster/sheetrock	Good	0	Negative
28	10/21/2013	Unit 1	Room 7	Wall 1	Baseboard	Wood	Good	0	Negative
29	10/21/2013	Unit 1	Room 7	Wall 3	Window Frame	Wood	Good	0	Negative
30	10/21/2013	Unit 1	Room 7	Wall 3	Window Sill	Wood	Good	0	Negative
31	10/21/2013	Unit 1	Room 7	Wall 4	Closet door Frame	Wood	Good	0	Negative
32	10/21/2013	Unit 1	Room 7	Wall 4	Closet Wall	Plaster/sheetrock	Good	0	Negative
33	10/21/2013	Unit 1	Exterior Facade	Wall 1	Door	Metal	Good	0	Negative
34	10/21/2013	Unit 1	Exterior Facade	Wall 1	Door Frame	Wood	Good	0	Negative
35	10/21/2013	Unit 1	Exterior Facade	Wall 1	Siding	vinyl	Good	0	Negative
36	10/21/2013	Unit 1	Exterior Facade	Wall 1	Window Frame	vinyl	Good	0	Negative
37	10/21/2013	Unit 1	Exterior Facade	Wall 2	Window Frame	vinyl	Good	0	Negative
38	10/21/2013	Unit 1	Exterior Facade	Wall 2	Siding	vinyl	Good	0	Negative
39	10/21/2013	Unit 1	Exterior Facade	Wall 3	Siding	vinyl	Good	0	Negative
40	10/21/2013	Unit 1	Exterior Facade	Wall 3	Window Frame	vinyl	Good	0	Negative
41	10/21/2013	Unit 1	Exterior Facade	Wall 4	Window Frame	vinyl	Good	0	Negative
42	10/21/2013	Unit 1	Exterior Facade	Wall 4	Siding	vinyl	Good	0	Negative
43	10/21/2013	Unit 1	Exterior Facade	Wall 4	Foundation Wall	Concrete	Good	0.02	Negative

# **APPENDIX B**

## Laboratory Analytical Results



# Creative Environment Solutions Corp.

39 West 37<sup>th</sup> Street, 14<sup>th</sup> Floor, New York, NY 10018

Phone: 212.290.6323 Fax: 212.290.6325

LICENSED & APPROVED by NYS DOH/DOL/DOS, NYC DOB/DEP, FDNY, PIE

## SAMPLING CHAIN-OF-CUSTODY FORM PAGE ( 1 OF 1 )

<b>Date Collected:</b> 10/21/13	<b>Project Name:</b> Gilbane - SRP#: 0037053 - Unit 2	<b>Client:</b> Gilbane
<b>Collected by:</b> Felix Kisevlyuk	<b>Project Location:</b> 1108 Barnegat Ave, Seaside Heights, NJ	<b>Project No.:</b> 13-07.339

**Task / Activity:** Background, Pre-Abatement/Clean-Up, During Abatement/Clean-Up, Post Abatement/Clean-Up, Inspection, Repair/ Interim Control, Construction/Alteration/Demolition, Other: \_\_\_\_\_

**Matrix:** s = SOIL; L = LIQUID; A = AIR; SL = SLUDGE; W = WIPE; P = PAINT CHIPS; B = BULK MATERIAL

**Laboratory:** EMSL ELAP No. 11506 **Analysis Requested:** NIOSH 7400A  
 ELAP No. \_\_\_\_\_ TEM (AHERA)  
 ELAP No. \_\_\_\_\_ Other: \_\_\_\_\_  
As Indicated

Sample ID	Matrix	Flow Rate		Average Flow Rate	Time		Total Minutes	Total Volume	Sample Location / Description	Analysis Requested/Results:				
		Start	Finish		Start	Finish				Lead	Asbestos PLM	Asbestos TEM	VOC	SVOC
L1-1	W								Room 5 - Window Sill	✓				
L1-2	W								Room 6 - " "	✓				
L1-3	W								Room 7 - Floor	✓				
L1-4	W								" " - Window Sill	✓				
L1-5	W								Field Blank	✓				
S1-1	S								Exterior - West side	✓				
S1-2	S								" - North Side	✓				
S1-3	S								" - East Side	✓				

2013 OCT 21 PM 8:11  
 EMSL MANHATTAN RECEIVED

**Turn-Around-Time:** Immediate 4 Hr. 24 Hr. 48 Hr. 72 Hr. **Results to:** X Fax: 212-290-6325

3-5 Days 5-10 Days Other

X E-mail: \_\_\_\_\_ Other: cescenter@aah.com

**Special Instructions:**

Site		Laboratory	
Relinquished By	Delivery Method	Received By	Date
Felix Kisevlyuk	Hand	[Signature]	10/21/13 8:43pm

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018

Phone/Fax: (212) 290-0051 / (212) 290-0058

<http://www.EMSL.com>[manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

EMSL Order:	031341188
CustomerID:	CES50
CustomerPO:	
ProjectID:	

Attn: **Results**  
**Creative Environment Solutions Corp.**  
**39 West 37th Street**  
**14th Floor**  
**New York, NY 10018**

Phone: (212) 290-6323  
 Fax: (212) 290-6325  
 Received: 10/21/13 8:43 PM  
 Collected: 10/21/2013

Project: 13-07.339/ GILBANE/ GILBANE SRP #0037053/ UNIT 1/ 1108 BARNEGAT AVE. SEASIDE HEIGHTS, NJ

**Test Report: Lead in Soils by Flame AAS (SW 846 3050B\*/7000B)**

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
S1-1	0006	10/21/2013	10/22/2013	190 mg/Kg
Site: EXTERIOR/ WEST SIDE				
S1-2	0007	10/21/2013	10/22/2013	640 mg/Kg
Site: EXTERIOR/ NORTH SIDE				
S1-3	0008	10/21/2013	10/22/2013	380 mg/Kg
Site: EXTERIOR/ EAST SIDE				

*M. Apfeldorfer*

Miron Apfeldorfer, Laboratory Manager  
 or other approved signatory

Reporting limit is 40 mg/kg based on the minimum sample weight per our SOP. The QC data associated with these sample results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. Results reported based on dry weight. \*slight modification to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.

Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--ELLAP Accredited #102581, NYS ELAP 11506

Initial report from 10/22/2013 15:26:38

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018

Phone/Fax: (212) 290-0051 / (212) 290-0058

<http://www.EMSL.com>[manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

EMSL Order:	031341188
CustomerID:	CES50
CustomerPO:	
ProjectID:	

Attn: **Results**  
**Creative Environment Solutions Corp.**  
**39 West 37th Street**  
**14th Floor**  
**New York, NY 10018**

Phone: (212) 290-6323  
 Fax: (212) 290-6325  
 Received: 10/21/13 8:43 PM  
 Collected: 10/21/2013

Project: 13-07.339/ GILBANE/ GILBANE SRP #0037053/ UNIT 1/ 1108 BARNEGAT AVE. SEASIDE HEIGHTS, NJ

**Test Report: Lead in Dust by Flame AAS (SW 846 3050B\*/7000B)**

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
L1-1	0001	10/21/2013	10/22/2013	n/a	12 µg/wipe
Site: ROOM 5/ WINDOW SILL					
L1-2	0002	10/21/2013	10/22/2013	n/a	<10 µg/wipe
Site: ROOM 6/ WINDOW SILL					
L1-3	0003	10/21/2013	10/22/2013	n/a	<10 µg/wipe
Site: ROOM 7/ FLOOR					
L1-4	0004	10/21/2013	10/22/2013	n/a	11 µg/wipe
Site: ROOM 7/ WINDOW SILL					
L1-5	0005	10/21/2013	10/22/2013	n/a	<10 µg/wipe
Site: FIELD BLANK					

Miron Apfeldorfer, Laboratory Manager  
 or other approved signatory

Reporting limit is 10 ug/wipe. The QC data associated with these sample results included in this report meet the method quality control requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities.

\* slight modifications to methods applied Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--ELLAP Accredited #102581, NYS ELAP 11506

Initial report from 10/22/2013 15:26:38

# **APPENDIX C**

## Licenses and Certifications

## Performance Characteristic Sheet

**EFFECTIVE DATE:** December 1, 2006

**EDITION NO.:** 1

**MANUFACTURER AND MODEL:**

Make: *Innov-X Systems, Inc.*  
 Models: *LBP4000 with software version 1.4 and higher*  
 Source: *X-ray tube*

### FIELD OPERATION GUIDANCE

**OPERATING PARAMETERS:**

Inspection mode, variable reading time.

**XRF CALIBRATION CHECK LIMITS:**

1.0 to 1.1 mg/cm<sup>2</sup> (inclusive)

**SUBSTRATE CORRECTION:**

Not applicable

**INCONCLUSIVE RANGE OR THRESHOLD:**

INSPECTION MODE READING DESCRIPTION	SUBSTRATE	INCONCLUSIVE RANGE (mg/cm <sup>2</sup> )
Results not corrected for substrate bias on any substrate	Brick	0.6 to 1.1
	Concrete	0.6 to 1.1
	Drywall	0.6 to 1.1
	Metal	0.6 to 1.1
	Plaster	0.6 to 1.1
	Wood	0.6 to 1.1





## Certificate of Calibration

Certification No: 0111628-1

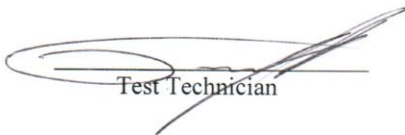
**Date Calibrated:** April 16, 2010


**Instrument No:** 11628

**Type:** I-3000

**This instrument was calibrated according to Innov-X Systems in-house calibration procedure. The calibration was verified using Alloy Certified Reference Materials produced by Analytical Reference Materials International (ARMI) and calibration was verified using Soil Certified Reference Materials produced by National Institute of Standards and Technology (NIST)**

**This instrument conforms to Innov-X Systems Quality Assurance standards.**

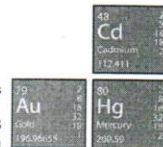
  
Test Technician

  
Q.A.

**The Netherlands**  
(P) +31 (0) 7362 72590  
(F) +31 (0) 7362 72599

**Hong Kong**  
(P) +852 2 515 0999  
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**Worldwide Headquarters**  
100 Sylvan Road, Suite 100, Woburn, MA 01801  
(781) 938-5005 Fax: (781) 938-0128  
[www.innovxsys.com](http://www.innovxsys.com)





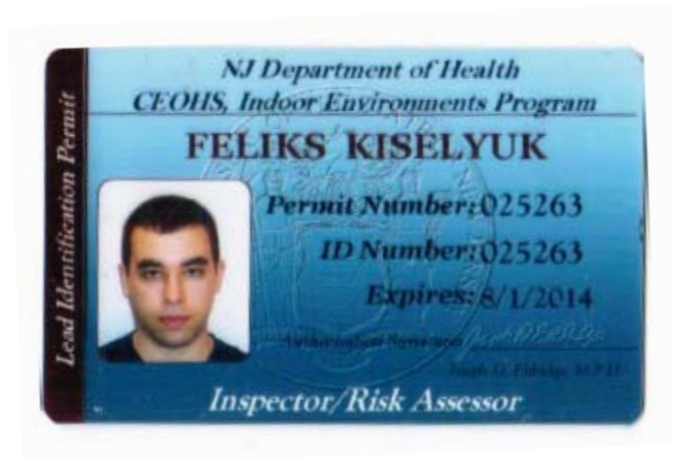
WBE Certified  
www.CEScenter.com

## Creative Environment Solutions Corp.

39 West 37<sup>th</sup> Street, 14<sup>th</sup> Floor, New York, NY 10018

Phone: 212.290.6323 Fax: 212.290.6325

LICENSED & APPROVED by NYS DOH/DOL/DOS, NYC DOB/DEP, FDNY, PIE



**Consulting & Training • Licensed & Certified Environmental Safety Compliance & Analytical Services • WBE**

**Creating Solutions For Your Environment**

## LEAD HAZARD EVALUATION NOTICE

Address: 1108 Barnegat Avenue, Common Area, Seaside Heights, NJ

Evaluation Completed (circle one): Paint Inspection    Paint Testing    **Risk Assessment**

Date: 11/12/2013

### Summary of Results:

No lead-based paint or lead-based paint hazards were found.

Lead-based paint and/or lead-based paint hazards were found. See attachment for details

Contact person for more information about the risk evaluation:

Printed name: Firoz Jan



Signature: \_\_\_\_\_

Date: 3/16/2014

Organization: PARS Environmental, Inc.

Street: 500 Horizon Drive, Suite 540

City & State: Robbinsville, NJ

Zip: 08691

Phone #: 609-890-7277

Person who prepared this notice:

Printed name: Margaret Halasnik



Signature: \_\_\_\_\_

Date: 3/16/2014

Organization: PARS Environmental, Inc.

Street: 500 Horizon Drive, Suite 540

City & State: Robbinsville, NJ

Zip: 08691

Phone #: 609-890-7277

Summarize the types and locations of lead-based paint hazards below or attach your own summary. The summary must list at least the bare soil locations, dust-lead locations, and/or building components (including type of room or space and the material underneath the paint), and types of lead-based paint hazards found:

<b>Contaminated Soil</b>		
<b>Area</b>	<b>mg/g (ppm)</b>	<b>Location</b>
<input checked="" type="checkbox"/> None		<b>See Table 4</b>
<input type="checkbox"/> Perimeter	___ mg/g (ppm)	
<input type="checkbox"/> Play Area	___ mg/g (ppm)	
<input type="checkbox"/> Other	___ mg/g (ppm)	

<b>Contaminated Dust</b>		
<b>Area</b>	<b>µg/SF</b>	<b>Location</b>
<input checked="" type="checkbox"/> None		<b>See Table 3</b>
<input type="checkbox"/> Windowsill	___ µg/SF	
<input type="checkbox"/> Floor	___ µg/SF	
<input type="checkbox"/> Other	___ µg/SF	
<input type="checkbox"/> Other	___ µg/SF	

<b>Other Hazards</b>				
<b>Component*</b>	<b>Location</b>	<b>Condition (good, fair, poor)</b>	<b>Friction or Impact Surface?</b>	<b>Lead Content (if known)</b>
1. <b>See Table 1</b>				___ mg/cm <sup>2</sup> (ppm)
2.				___ mg/cm <sup>2</sup> (ppm)
3.				___ mg/cm <sup>2</sup> (ppm)
4.				___ mg/cm <sup>2</sup> (ppm)
5.				___ mg/cm <sup>2</sup> (ppm)
6.				___ mg/cm <sup>2</sup> (ppm)
7.				___ mg/cm <sup>2</sup> (ppm)
8.				___ mg/cm <sup>2</sup> (ppm)
9.				___ mg/cm <sup>2</sup> (ppm)
10.				___ mg/cm <sup>2</sup> (ppm)
11.				___ mg/cm <sup>2</sup> (ppm)
12.				___ mg/cm <sup>2</sup> (ppm)
13.				___ mg/cm <sup>2</sup> (ppm)
14.				___ mg/cm <sup>2</sup> (ppm)

\* Components include but are not limited to (interior and exterior) windows, doors, trim, fences, porches, walls and floors.



PARS  
Environmental  
Inc.

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**LEAD-BASED PAINT SURVEY REPORT  
AND RISK ASSESSMENT  
1108 BARNEGAT AVENUE, COMMON AREA  
SEASIDE HEIGHTS, NEW JERSEY  
SRP0037053**

**PREPARED BY**

**PARS Environmental, Inc.  
500 Horizon Drive Suite 540  
Robbinsville, N.J. 08691  
(609) 890-7277**

**PARS Project No.: 1011-02**

**MARCH 16, 2014**



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**EXECUTIVE SUMMARY**

On November 12, 2013, PARS Environmental, Inc. (PARS) conducted a Lead-Based Paint (LBP) Inspection and Lead Hazard Risk Assessment (hereinafter the "Assessment") of the residential property located at 1108 Barnegat Avenue, Unit #2, Seaside Heights, New Jersey (hereinafter the "Property"). The Property had sustained damage during the October 2012 Hurricane Sandy and could be eligible for funding under the New Jersey Landlord Rental Repair (LRR) Program, which is being administered by the State of New Jersey Department of Community Affairs (NJDCA). NJDCA is providing funds made available by the US Department of Housing and Urban Development (HUD). PARS was authorized to perform this work by Gilbane Building Company (GBCO).

The purpose of the Assessment was to identify the potential presence of lead hazards on/ in painted surfaces inside and outside the structure, including deteriorated LBP and LBP that may be disturbed during planned renovations.

The apartment complex was constructed in the 1950s. **This Assessment presents the findings only for the Common Area of the structure.** Common areas are those locations utilized by all occupants of the Property. The interior of the building appeared to be in good condition at the time of the Assessment.

The results of the Assessment indicate that **no lead-based paint or lead-based paint hazards were identified in the area surveyed** at the time of the Assessment.

**Identified LBP Surfaces**

- **No LBP surfaces were identified during the Assessment.**

**Existing LBP Hazards and Potential Lead Hazards**

The following substrates coated with LBP are deteriorated (poor condition) and currently present existing LBP hazards:

- **No LBP hazards or potential Lead hazards were identified during the Assessment.**

**Identified Intact LBP Surfaces-No Current Hazard**

The following area is coated with LBP that is intact and does not currently present lead hazards.

- **No LBP surfaces were identified during the Assessment.**

**Lead Dust Hazards**

A lead dust hazard was identified in the following locations:

- **No lead dust hazards were identified during the Assessment.**



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**Soil Contamination**

A lead hazard was identified in soil at the following building location:

- **No lead soil hazards were identified during the Assessment.**

**Non-LBP Renovation Components**

Renovation activities may include disturbance of the following components that do not contain LBP:

- Exterior siding in the areas that were tested.

**Recommendations**

No further action is recommended.

**1.0 BACKGROUND, PURPOSE AND SCOPE OF WORK**

On November 12, 2013, PARS Environmental, Inc. (PARS) conducted a Lead-Based Paint (LBP) Inspection and Lead Hazard Risk Assessment (hereinafter the “Assessment”) of the residential property located at 1108 Barnegat Avenue, Common Area, Seaside Heights, New Jersey (hereinafter the “Property”). The Property had sustained damage during the October 2012 Hurricane Sandy and could be eligible for funding under the New Jersey Landlord Rental Repair (LRR) Program, which is being administered by the State of New Jersey Department of Community Affairs (NJDCA). NJDCA is providing funds made available by the US Department of Housing and Urban Development (HUD). PARS was authorized to perform this work by Gilbane Building Company (GBCO).

The purpose of the Assessment was to identify the potential presence of lead hazards on/ in surfaces inside and outside the structure, including deteriorated LBP and LBP that may be disturbed during planned renovations. HUD, the United States Environmental Protection Agency (USEPA), and the NJDCA New Jersey Lead Hazard Evaluation and Abatement Code (N.J.A.C. 5:17) consider painted surfaces containing lead at a concentration of 1.0 milligram per square centimeter ( $\text{mg}/\text{cm}^2$ ) or greater to be LBP. LBP testing was conducted to assess whether LBP was present at levels exceeding the HUD, USEPA, and New Jersey Lead Hazard Evaluation and Abatement Code.

The Scope of Work included the following:

- Owner/occupant interviews and a visual inspection of all painted and coated interior and exterior surfaces of the dwelling, all common areas, and, if present, all outbuildings and fences;





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- X-Ray Fluorescence (XRF) analyzer testing for lead content of all coatings on surfaces that maybe disturbed during the renovation;
- Lead hazard identification of deteriorated paint, friction, impact and chewable surfaces;
- Interior dust sampling; and
- Soil sampling, if appropriate.

## **2.0 APPLICABLE REGULATORY STANDARDS AND FIELD METHODOLOGIES**

### **2.1 Applicable Regulatory Standards**

The inspection and Assessment were performed in accordance with the regulatory standards listed below, as appropriate:

1. HUD Community Development Block Grant (CDBG) Lead Safe Housing Rule;
2. The guidelines of the Steel Structures Painting Council referenced in N.J.A.C. 5:17-1.3;  
and
3. Rules adopted by the U.S. Environmental Protection Agency at 40 C.F.R. 745.

### **2.2 Owner/Interview Visual Inspection**

The Assessment was performed on November 12, 2013, by Mr. Firoz Jan, a licensed New Jersey Department of Health (NJDOH) Lead Inspector/Risk Assessor (Permit # 026145). PARS is certified by the NJDCA as a Lead Evaluation Contractor (Cert #00416E). The Assessment commenced at 12:00 pm and concluded at approximately 4:00 pm. A copy of Mr. Jan's license is provided in **Appendix A**.

The property owner contact information is:

Owner: Mr. Leonidas Kopsaftis  
Address: 16 Oak Glen Road  
Toms River, NJ 08753  
Day Phone # 732-606-7233

Based on an interview with the Owner, there has not been previous LBP testing/assessment at the Property.

### **2.3 XRF Testing and Lead Hazard Identification**

Painted surfaces were evaluated according to the specifications described in the protocols for LBP inspection in the HUD Guidelines for the Evaluation and Control of Lead-Based Paint and requirements of the Lead Hazard Evaluation and Abatement Code using an X-Ray Fluorescence (XRF) analyzer. The XRF used for this evaluation was an INNOV-X SYSTEM, Model No. ALPHA-6500, Serial No. 10768.



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A rough sketch is made of the Property. Instrument calibrations are performed at least three times before the start of testing and performed at least every four hours, and at the end of each inspection. At least one test location per testing combination, four readings are obtained, one on each wall, (interior room equivalent or exterior). When upper and lower walls have a different painting history, four tests are required of each.

The selection of the test locations is representative of the paint over the areas which are most likely to be coated with old paint or other lead-based coatings. Thus, locations, where the paint appears to be thickest are selected. Locations where paint has worn away or been scraped off are not selected. At each test location:

- All layers of paint are included; and
- The XRF probe faceplate is placed flat against the surface.

Areas over pipes, electrical surfaces, nails and other possible interferences are avoided, if possible, as these materials may contain lead and contribute to the XRF reading. When testing combinations are repeated within a room equivalent (e.g., window, or door system), one test is taken on one part of the component system (e.g., the casing from window B) and another test from another part of the system from a separate component (e.g., the sash from window C-2), the same strategy would apply to the door system. If a room has two or more doors (including closet or pantry doors), the casing or jamb of the door itself is tested. If each door may have a different painting history, then each door system is tested separately.

Calibration and actual readings were taken using the Lead-in-Paint K+L variable reading time mode. The instrument calibration was performed in accordance with the Performance Characteristic Sheet (PCS) for this instrument. The instrument PCS is in **Appendix B**. The instrument was calibrated using the paint film nearest 1.0 mg/cm<sup>2</sup> in the National Institute of Standard & Technology (NIST) Standard Reference Material. At least three calibration readings were taken before and after the testing to insure manufacturer standards were met.

The tested surfaces included:

- Exterior Siding

Two measurements were taken from painted surfaces in the Common Area. The XRF measurements were collected following the regulatory standards referenced in Section 2.1 of this report to evaluate the potential presence of LBP in the dwelling.

#### **2.4 Interior Dust Wipe Sampling**

Interior dust wipe sampling is conducted in areas where the LBP surfaces are observed to be in deteriorated condition. USEPA and HUD define “*deteriorated paint*” as “*any interior or exterior paint or other coating that is peeling, chipping, chalking or cracking, or any paint or coating located on an interior or exterior surface or fixture that is otherwise damaged or separated from the substrate*”. This definition is most typically associated with surface



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conditions only. Usage of this term in describing conditions other than those associated with surface coatings are not known to be defined by USEPA or HUD.

Wipe sampling was conducted in the living areas (i.e., Front Entrance, Bathroom, Kitchen, Living Room, Common Areas, Bedrooms) to assess the presence of potential lead-dust concentrations. USEPA considers lead in dust to be a hazard if lead concentrations, as determined by wipe sampling, are equal to or greater than 40 micrograms per square foot ( $\mu\text{g}/\text{ft}^2$ ) on floors, 250  $\mu\text{g}/\text{ft}^2$  on window sills, and 400  $\mu\text{g}/\text{ft}^2$  on troughs and exterior surfaces.

Four (4) wipe samples including two (2) Quality Control wipe samples were collected from the Common Area floors. The samples were collected from areas most likely to be lead contaminated if lead-in-dust is present, in accordance with the requirements of ASTM Standard E-1728, *Standard Practice for Field Collection of Settled Dust Samples Using Wipe Sampling Methods for Lead Determination by Atomic Spectrometry Techniques*. Samples were collected by wiping either a 12 inch x 12 inch surface area or other pre-measured surface with alcohol free Ghost Wipes. The surface area was wiped side-to-side in 'S' like motions. The samples were placed in plastic tubes and submitted for laboratory analysis to EMSL Analytical Inc. (EMSL) which is an American Industrial Hygiene Association, Environmental Lead Laboratory Accreditation Program (AIHA-ELLAP # 100194) certified laboratory.

### **2.5 Soil Sampling**

Where necessary, soil samples are collected in accordance with the requirements of ASTM Standard E-1727, *Standard Practice for Field Collection of Soil Samples for Lead Determination by Atomic Spectrometry Techniques*. A minimum of two (2) soil samples are collected from the following areas:

- Drip line – soil closest to the exterior walls of the home; and
- Play Area – soil where children (if any) are known to be in contact with soil (i.e., near swing set, play equipment, etc.); or
- Bare Soil – soil that is exposed in the yard, but not necessarily a Play Area.

LBP hazards were not identified along the building exterior. Four (4) soil samples were collected from the foundation drip line. The samples were placed in a plastic tube and submitted for laboratory analysis to EMSL which is an AIHA-ELLAP certified and New Jersey Department of Environmental Protection (NJDEP) (#03036) certified laboratory.

## **3.0 RESULTS**

### **3.1 Owner/Interview Visual Inspection**

The apartment complex was constructed in the 1950s. The property building consists of five units. **This Assessment presents the findings only for the Common Area of the structure.** Common areas are those locations utilized by all occupants of the Property. The interior of the



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building appeared to be in good condition at the time of the Assessment. The following potential LBP painted/coated surfaces were identified:

- Exterior Siding

### **3.2 XRF Testing and Lead Hazard Identification**

XRF testing was conducted on painted components listed above. The XRF readings and their associated LBP levels are summarized in **Table 1**. XRF Direct Readings are provided in **Table 2**.

#### **Identified LBP Surfaces**

LBP in amounts equal to or exceeding the USEPA and/or HUD criteria of 1.0 mg/cm<sup>2</sup> was found on the following painted substrates:

- **No LBP surfaces were identified during the Assessment.**

#### **Existing LBP Hazards**

The following substrates coated with LBP are deteriorated (poor condition) and currently present existing LBP hazards:

- **No LBP hazards or potential Lead hazards were identified during the Assessment.**

A glossary of terms and a list of publications and resources addressing lead hazards and their health effects is provided in **Appendix C**.

#### **Intact LBP Surfaces-No Current Hazard**

The following area is coated with LBP that is intact and does not currently present lead hazards.

- **No LBP surfaces were identified during the Assessment.**

### **3.3 Interior Dust Wipe Sampling**

**None of the four (4) wipe samples exceeded the lead dust concentrations of 40 µg/ft<sup>2</sup> on floors.** The results of the wipe sampling are presented as **Table 3**. Laboratory analytical results are provided in **Appendix D**.

### **3.4 Soil Sampling**

**Soil contamination exceeding 1,200 parts per million (ppm) or milligrams per kilogram (mg/kg) of lead was not found.** The results of the soil sampling are presented as **Table 4**. Laboratory analytical results are provided in **Appendix E**.



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#### 4.0 LEAD HAZARD CONTROL OPTIONS

Lead-safe work practices and worker/occupant protection practices complying with current USEPA, HUD, and Occupational Safety and Health Administration (OSHA) standards will be necessary to safely complete all work involving the disturbance of LBP coated surfaces and components. In addition, any work considered lead hazard control will enlist the use of interim control (temporary) methods and/or abatement (permanent) methods. It should be noted that all lead hazard control activities have the potential of creating additional hazards, or even creating hazards that were not present before. All persons and/or firms performing lead hazard control activities must have received proper training in Lead-Safe Work Practices and/or Lead Abatement. Details for the listed lead hazard control options and issues surrounding occupant/worker protection practices can be found in the publication titled: *Guidelines for the Evaluation and Control of LBP Hazards in Housing (Second Edition, July 2012)* (HUD Guidelines), published by HUD, as well as in the OSHA regulations found in 29 CFR, Part 1926.62, known as the OSHA Lead Exposure in Construction Industry Standard.

The associated cost estimates, unless otherwise noted, include the labor and materials to accomplish the stated activity and most additional funds typically found to be necessary to complete worker protection, site containment, and cleanup procedures. These are approximate estimates only and due to a variety of potential factors, may not accurately reflect all local cost factors. A precise estimate must be obtained from a NJ certified LBP abatement contractor or a contractor trained in lead safe work practices. Properly trained and/or licensed persons, as well as properly licensed firms (as mandated) should accomplish all abatement/interim control activities conducted at this residence.

*Interim controls*, as defined by HUD, means a set of measures designed to temporarily reduce human exposure to LBP hazards and/or lead containing materials. These measures include, but are not limited to: component and/or substrate repairs; paint and varnish repairs; the removal of dust-lead hazards; renovation; remodeling; maintenance; temporary containment; placement of seed, sod or other forms of vegetation over bare soil areas; the placement of at least six (6) inches of an appropriate mulch material over an impervious material, laid on top of bare soil areas; the tilling of bare soil areas; extensive and specialized cleaning; and ongoing LBP maintenance activities.

*Abatement*, as defined by HUD, means any set of measures designed to permanently eliminate LBP and/or LBP hazards. The product manufacturer and/or contractor must warrant abatement methods to last a minimum of 20 years, or these methods must have a design life of at least 20 years. These activities include, but are not limited to:

- The removal of LBP from substrates and components;
- The replacement of components or fixtures with lead containing materials and/or LBP;
- The permanent enclosure of LBP with construction materials;



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- The encapsulation of LBP with approved products;
- The removal or permanent covering (concrete or asphalt) of soil-lead hazards; and,
- Extensive and specialized cleaning activities.

Based on the findings of the Assessment, PARS recommends the following action be implemented to minimize the potential exposure to LBP:

- **No further action is recommended.**

#### **5.0 SPECIAL CLEANING PRECEDING LEAD HAZARD CONTROL ACTIVITIES**

No special cleaning preceding lead hazard control activities are warranted at this time.

#### **6.0 SPECIAL CLEANING FOLLOWING LEAD HAZARD CONTROL ACTIVITIES**

No special cleaning following lead hazard control activities are warranted at this time.

### **7.0 ONGOING MONITORING**

Ongoing monitoring is necessary in all dwellings in which LBP is known or assumed to be present. At these dwellings, the very real potential exists for LBP hazards to develop. Hazards can develop by means such as, but not limited to: the failure of lead hazard control measures; previously intact LBP becoming deteriorated; dangerous levels of lead-in-dust (dust lead) re-accumulating through friction, impact, and deterioration of paint; or, through the introduction of contaminated exterior dust and soil into the interior of the structure.

Ongoing monitoring typically includes two different activities: re-evaluation and annual visual surveys. A re-evaluation is a risk assessment that includes limited soil and dust sampling and a visual evaluation of paint films and any existing lead hazard controls. Re-evaluations are supplemented with visual surveys by the Homeowner, which should be conducted at least once a year. Homeowner conducted visual surveys do not replace the need for professional re-evaluations. Visual surveys should confirm that all paint with known or suspected LBP are not deteriorating, that lead hazard control methods have not failed, and that structural problems do not threaten the integrity of any remaining known, assumed or suspected LBP. The partial table below is taken from **Table 6.1, Standard Re-evaluation Schedules**, as found in the HUD Guidelines. It is intended as a guideline for the Homeowner to assess the condition of areas where hazard control activities occurred.

Factors at this residence require the use of **Ongoing Monitoring Schedule Number 1 (No Action)** to dictate monitoring protocol.



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LBP Schedule	Original Evaluation Results	Action taken	Re-evaluation Frequency & Duration	Visual Survey Schedule
1	Combination risk assessment/inspection finds no leaded dust or soil and no lead-based paint.	None.	None.	None

**8.0 DISCLOSURE REGULATIONS**

Every purchaser of any interest in residential real property on which a residential dwelling was built prior to 1978 must be notified that such property may present exposure to lead from LBP that may place young children at risk of developing lead poisoning. The seller must disclose any known information concerning LBP or LBP hazards. The seller must also disclose information such as the location of the LBP and/or LBP hazards, and the condition of the painted surfaces. Lead poisoning in young children may produce permanent neurological damage, including learning disabilities, reduced intelligence quotient, behavioral problems, and impaired memory. Lead poisoning also poses a particular risk to pregnant women. The seller of any interest in residential real property is required to provide the buyer with any information on LBP hazards from risk assessments or inspections in the seller’s possession and notify the buyer of any known lead-based paint hazards. A risk assessment or inspection for possible LBP hazards is recommended prior to purchase.

**9.0 FUTURE REMODELING PRECAUTIONS**

Deteriorated or disturbed painted surfaces may still contain LBP and may pose a hazard, especially during renovation. The OSHA Lead in Construction Standard 29 CFR 1926.62 states that those “negative” readings (i.e., those below the HUD/USEPA definition of what constitutes LBP (1.0 mg/cm<sup>2</sup>)) do not relieve contractors from performing exposure assessments (personal air monitoring) on their employees, and should not be interpreted as lead free. Although a reading may indicate “negative”, airborne lead concentrations still may exceed the OSHA Action Level or the OSHA Permissible Exposure Limit (PEL) depending on the work activity.

Each painted surface observed during the Assessment was tested for the presence of LBP. Only LBP hazards that were identified are addressed in this report. However, LBP, dust lead hazards, and/or soil lead hazards may be present at other locations on the property. Additional paint testing should precede any future remodeling activities that occur at any untested areas. Additional dust and/or soil sample collection and analysis should follow any hazard control activity, repair, remodeling, or renovation effort, and any other work efforts that may in any way disturb LBP and/or any lead containing materials. These Assessment activities will help the Homeowner to ensure the health and safety of the occupants and the neighborhood. Details concerning lead safe work techniques and approved hazard control methods can be found in the



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HUD publication titled: *“Guidelines for the Evaluation and Control of LBP Hazards in Housing”* (Second Edition, July 2012).

**10.0 CONDITIONS AND LIMITATIONS**

This report is prepared for the sole benefit of NJDCA and GBCO under the LRR Program and may not be relied upon by any other person or entity without the written authorization of PARS. This is our report of a visual survey, XRF analysis of the tested components, wipe samples, and soil samples. The presence or absence of LBP or LBP hazards applies only to the tested or assessed surfaces on the date of the field visit and it should be understood that the conditions may change due to deterioration or maintenance. The results and material conditions noted within this report were accurate at the time of the evaluation and in no way reflect the conditions at the site tested after November 12, 2013. No other environmental concerns or conditions were addressed during this evaluation.

**-o0o-**

PARS appreciates the opportunity to assist the NJDCA and GBCO with this project. Should you have any questions or comments please feel free to contact us at (609) 890-7277.

Respectfully submitted,

**PARS ENVIRONMENTAL, INC.**

Firoz Jan  
Project Industrial Hygienist  
NJDOH Lead Inspector / Risk Assessor  
Permit # 026145

Margaret Halasnik  
Principal Environmental Scientist





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**TABLE 1  
XRF Lead-Based Paint Test Results**



**TABLE 1**  
**XRF Lead-Based Paint Test Results**  
**1108 Barnegat Avenue, Common Area**  
**Seaside Heights, NJ**  
**SRP0037053**

Date	Reading	Room	Component	Substrate	Paint Condition	Paint Color	Friction, Impact, or Teeth Marked Surface	Result	Lead Content (mg/cm <sup>2</sup> )
12-Nov-13	1	Standardization						PASS	
<b>12-Nov-13</b>	<b>2</b>	<b>Calibration</b>	<b>Red Film</b>	<b>Metal</b>	<b>Good</b>	<b>Red</b>		<b>Positive</b>	<b>1.08</b>
<b>12-Nov-13</b>	<b>3</b>	<b>Calibration</b>	<b>Red Film</b>	<b>Metal</b>	<b>Good</b>	<b>Red</b>		<b>Positive</b>	<b>1.06</b>
<b>12-Nov-13</b>	<b>4</b>	<b>Calibration</b>	<b>Red Film</b>	<b>Metal</b>	<b>Good</b>	<b>Red</b>		<b>Positive</b>	<b>1.04</b>
12-Nov-13	51	Exterior	Siding	Metal	Good	Beige		Negative	0
12-Nov-13	52	Exterior	Siding	Metal	Good	Beige		Negative	0
<b>12-Nov-13</b>	<b>53</b>	<b>Calibration</b>	<b>Red Film</b>	<b>Metal</b>	<b>Good</b>	<b>Red</b>		<b>Positive</b>	<b>1.11</b>
<b>12-Nov-13</b>	<b>54</b>	<b>Calibration</b>	<b>Red Film</b>	<b>Metal</b>	<b>Good</b>	<b>Red</b>		<b>Positive</b>	<b>1.08</b>
<b>12-Nov-13</b>	<b>55</b>	<b>Calibration</b>	<b>Red Film</b>	<b>Metal</b>	<b>Good</b>	<b>Red</b>		<b>Positive</b>	<b>1.08</b>



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**TABLE 2  
XRF Direct Reading Results**



**Table 2**  
**XRF Direct Reading Results**  
**1108 Barnegat Avenue-Common Area**  
**Seaside Heights, NJ**  
**SRP0037053**

Date	Time	Reading	Mode	LiveTime	Pass Fail Standard	Pb	Pb +/-
12-Nov-13	12:24:10	1	Standardization	49.7	PASS		
<b>12-Nov-13</b>	<b>12:25:53</b>	<b>2</b>	<b>Lead Paint Fixed-Time</b>	<b>23.53</b>	<b>Positive</b>	<b>1.08</b>	<b>0.04</b>
<b>12-Nov-13</b>	<b>12:27:01</b>	<b>3</b>	<b>Lead Paint Fixed-Time</b>	<b>23.57</b>	<b>Positive</b>	<b>1.06</b>	<b>0.04</b>
<b>12-Nov-13</b>	<b>12:27:43</b>	<b>4</b>	<b>Lead Paint Fixed-Time</b>	<b>23.53</b>	<b>Positive</b>	<b>1.04</b>	<b>0.04</b>
12-Nov-13	13:08:09	51	Lead Paint Fixed-Time	22.61	Negative	0	0
12-Nov-13	13:08:50	52	Lead Paint Fixed-Time	23.57	Negative	0	0
<b>12-Nov-13</b>	<b>13:10:17</b>	<b>53</b>	<b>Lead Paint Fixed-Time</b>	<b>22.97</b>	<b>Positive</b>	<b>1.11</b>	<b>0.04</b>
<b>12-Nov-13</b>	<b>13:10:59</b>	<b>54</b>	<b>Lead Paint Fixed-Time</b>	<b>23.23</b>	<b>Positive</b>	<b>1.08</b>	<b>0.04</b>
<b>12-Nov-13</b>	<b>13:11:40</b>	<b>55</b>	<b>Lead Paint Fixed-Time</b>	<b>23.19</b>	<b>Positive</b>	<b>1.08</b>	<b>0.04</b>



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**TABLE 3  
Lead Dust Wipe Sample Results**



**TABLE 3**  
**LBP Dust Wipe Sample Test Results**  
**1108 Barnegat Avenue, Common Area**  
**Seaside Heights, NJ**  
**SRP0037053**

<b>Sample ID</b>	<b>Date</b>	<b>Room</b>	<b>Location</b>	<b>Lead Dust Concentration indicative of Lead Hazard (<math>\mu\text{g}/\text{ft}^2</math>)</b>	<b>Wipe Sample Result (<math>\mu\text{g}/\text{ft}^2</math>)</b>
BA-05	11/12/2013	Common area	Floor	40	<10
BA-09	11/12/2013	QC	QC	N/A	<10
PB-08	11/12/2013	Common area	Floor	40	<10
PB-09	11/12/2013	QC	QC	N/A	<10

**500=** Exceeds lead dust concentration



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**TABLE 4  
Lead In Soil Sample Results**



**Table 4**  
**Lead In Soil Contamination**  
**1108 Barnegat Avenue, Common Area**  
**Seaside Heights, NJ**  
**SRP0037053**

Sample ID	Date	Location	Lead in Soil Concentration indicative of Lead Hazard (mg/kg)	Soil Sample Result (mg/kg)
U-01	12-Nov-13	East side-House Exterior Dripline	1,200	240
U-02	12-Nov-13	West side-House Exterior Dripline	1,200	270
S-01	12-Nov-13	North side-House Exterior Dripline	1,200	230
S-02	12-Nov-13	South side-House Exterior Dripline	1,200	260

**1201 =** Exceeds lead in soil concentration  
mg/kg = milligrams per kilogram





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**APPENDIX A**

**Licenses**

*Lead Identification Permit*

*New Jersey Department of Health*

**FIROZ JAN**



**Permit No.: 026145**  
**ID No.: R00230**  
**Expires: 7/25/2015**

Authorization Signature *Joseph D. Eldridge*  
Joseph D. Eldridge, M.P.H., Director

*Inspector/Risk Assessor*

36948

*National Asbestos & Environmental Training Institute*

**CERTIFICATE OF COMPLETION**

*This is to certify that*

***Firoz Jan***

*Successfully completed the course entitled*

**1-Day New Jersey/EPA Model Lead Inspector/Risk Assessor Refresher on  
November 21, 2012**

*Examination Passed on November 21, 2012*

*Expiration Date November 21, 2014*

*Doris L. Adler*

*President, NAETI*

Language: English

3 CE Units

ABIH 1 CM POINT

3321 Doris Avenue, Building B, Ocean, NJ 07712

Phone (732) 531-5571

Fax (732) 531-5956

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



CHRIS CHRISTIE  
Governor

KIM GUADAGNO  
Lt. Governor

LOCATION  
101 SOUTH BROAD STREET  
TRENTON, NEW JERSEY 08618

STATE OF NEW JERSEY  
DEPARTMENT OF COMMUNITY AFFAIRS  
DIVISION OF CODES AND STANDARDS  
BUREAU OF CODE SERVICES  
LEAD HAZARD ABATEMENT

RICHARD E. CONSTABLE, III  
Commissioner

MAILING ADDRESS  
PO BOX 816  
TRENTON, NJ 08625-0816

Certificate - Lead Evaluation Contractor

This is to certify that the Department of Community Affairs has

( ) CERTIFIED  
(XX) RECERTIFIED

PARS ENVIRONMENTAL  
500 HORIZON DRIVE  
SUITE 540  
ROBBINSVILLE, NJ 08691

To act as a Lead Evaluation Contractor on the following projects

Residential  
Public Buildings

Cert # 00416 E

Effective Date: MARCH 1, 2014

Date of Expiration: FEBRUARY 29, 2016

Certificate Type: 2 YEAR

Sincerely,

James L. Amici  
Supervisor of Certification  
Lead Hazard Abatement Unit





CHRIS CHRISTIE  
Governor

KIM GUADAGNO  
Lt. Governor

LOCATION  
101 SOUTH BROAD STREET  
TRENTON, NEW JERSEY 08618

STATE OF NEW JERSEY  
DEPARTMENT OF COMMUNITY AFFAIRS  
DIVISION OF CODES AND STANDARDS  
BUREAU OF CODE SERVICES  
LEAD HAZARD ABATEMENT

RICHARD E. CONSTABLE, III  
Acting Commissioner

MAILING ADDRESS  
PO BOX 816  
TRENTON, NJ 08625-0816

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500 HORIZON DRIVE  
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Residential  
Public Buildings

Cert # 00416 E

Effective Date: MARCH 1, 2012

Date of Expiration: FEBRUARY 28, 2014

Certificate Type: 2 YEAR

Sincerely,

James L. Amici  
Supervisor of Certification  
Lead Hazard Abatement Unit





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**APPENDIX B  
Performance Characteristic Sheet**

## Performance Characteristic Sheet

**EFFECTIVE DATE:**      October 12, 2006

**EDITION NO.:** 1

**MANUFACTURER AND MODEL:**

Make:                    *Innov-X Systems, Inc.*  
 Models:                *LBP4000 with software version 1.4 and higher*  
 Source:                 *X-ray tube (no radioactive isotopes)*

### FIELD OPERATION GUIDANCE

**OPERATING PARAMETERS:**

Inspection mode, variable reading time.

**XRF CALIBRATION CHECK LIMITS:**

1.0 to 1.1 mg/cm<sup>2</sup> (inclusive)

**SUBSTRATE CORRECTION:**

Not applicable

**INCONCLUSIVE RANGE OR THRESHOLD:**

INSPECTION MODE READING DESCRIPTION	SUBSTRATE	INCONCLUSIVE RANGE (mg/cm <sup>2</sup> )
Results not corrected for substrate bias on any substrate	Brick	0.6 to 1.1
	Concrete	0.6 to 1.1
	Drywall	0.6 to 1.1
	Metal	0.6 to 1.1
	Plaster	0.6 to 1.1
	Wood	0.6 to 1.1

### BACKGROUND INFORMATION

**EVALUATION DATA SOURCE AND DATE:**

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted on 146 test locations, with two separate instruments, in December 2005.

### OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

### XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm<sup>2</sup> in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm<sup>2</sup> film).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

### SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm<sup>2</sup> for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm<sup>2</sup> at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm<sup>2</sup>. Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

For each substrate type (the 1.02 mg/cm<sup>2</sup> NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

$$\text{Correction value} = (1\text{st} + 2\text{nd} + 3\text{rd} + 4\text{th} + 5\text{th} + 6\text{th Reading}) / 6 - 1.02 \text{ mg/cm}^2$$

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

### EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

Take one XRF reading on each of the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Calculate the average of the original XRF reading and the retest XRF reading for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.



Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF readings.

Compute the average of all ten re-test XRF readings.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

**TESTING TIMES:**

For the variable-time inspection paint test mode, the instrument continues to read until it has determined whether the result is positive or negative (with respect to the 1.0 mg/cm<sup>2</sup> Federal standard), with 95% confidence. The following table provides testing time information for this testing mode.

Testing Times Using Variable Reading Time Inspection Mode (Seconds)						
Substrate	All Data			Median for laboratory-measured lead levels (mg/cm <sup>2</sup> )		
	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile	Pb < 0.25	0.25 ≤ Pb < 1.0	1.0 ≤ Pb
Wood, Drywall	2.1	2.3	5.4	2.2	5.4	2.2
Metal	2.6	3.2	5.3	2.7	5.1	5.1
Brick, Concrete, Plaster	3.1	4.0	5.7	3.2	4.0	5.9

**CLASSIFICATION OF RESULTS:**

When an inconclusive range is specified on the *Performance Characteristic Sheet*, XRF results are classified as positive if they are greater than the upper boundary of the inconclusive range, negative if they are less than the lower boundary of the inconclusive range, or inconclusive if in between. The inconclusive range includes both its upper and lower bounds. If the instrument reads “> x mg/cm<sup>2</sup>”, the value “x” should be used for classification purposes, ignoring the “>”. For example, a reading reported as “>1.0 mg/cm<sup>2</sup>” is classified as 1.0 mg/cm<sup>2</sup>, or inconclusive. When the inconclusive range reported in this PCS is used to classify the readings obtained in the EPA/HUD evaluation, the following False Positive, False Negative and Inconclusive rates are obtained:

- FALSE POSITIVE RATE: 2.5% (2/80)
- FALSE NEGATIVE RATE: 1.9% (4/212)
- INCONCLUSIVE RATE: 16.4% (48/212)

**DOCUMENTATION:**

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. XRF Performance Characteristic Sheets were originally developed by the MRI under a grant from the U. S. Environmental Protection Agency and the U.S. Department of Housing and Urban Development. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

## Margaret Halasnik

---

**From:** Juan Payan <juan.payan@olympusndt.com>  
**Sent:** Monday, August 12, 2013 12:58 PM  
**To:** Margaret Halasnik  
**Subject:** Performance Characteristics Sheet  
**Attachments:** Lead paint Hud sheet.pdf

Hi Margaret,

Please see the Performance Characteristics Sheet attached, and let me know if you need anything else. This sheet is valid for all Alpha models.

*Regards,*

*JC Payan  
Technical Support  
Olympus NDT - Analytical Instruments Division  
241 Riverview Ave  
Auburndale, MA 02466  
T: 781-419-3900  
F: 781-973-2200*



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SEASIDE HEIGHTS, NEW JERSEY  
SRP0037053**

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**APPENDIX C**

**Lead Glossary**



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**“LEAD SPEAK” A BRIEF GLOSSARY**

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**COMMON LBP TERMS**

**LBP:** Any and all paint that contains at least 1 milligram of lead per square centimeter of surface area ( $1.0 \text{ mg/cm}^2$ ). This is infrequently expressed as 0.5% lead by weight and/or 5,000 parts per million lead concentrations by dry weight.

**LBP HAZARDS:** Housing conditions that cause human exposure to unsafe levels of lead from paint. These conditions include, but are not necessarily limited to: deteriorated LBP; friction, impact, or chewable surfaces; lead contaminated dust; or lead contaminated soil.

**PAINT:** Any and all paints, stains, varnishes, shellacs, epoxies, lacquers, polyurethanes, etc.

**HOUSE WALL IDENTIFICATION GUIDE:** The exterior wall that contains the front entry to the house is labeled as the A wall of the house. Proceeding clock-wise around the house label the remaining walls B, C, and D respectively. The interior room walls correspond to the exterior walls

**LEAD HAZARD EVALUATION METHODS**

**VISUAL EVALUATION:** A visual evaluation of interior and exterior paint and surfaces in an effort to try to identify specific conditions that contribute to LBP hazards. A certified risk assessor or a Housing Quality Standards inspector trained in visual assessments should perform these inspections.

**PAINT TESTING:** Testing of specific surfaces that are coated with paint, by XRF (x-ray fluorescence) or laboratory analysis, to determine the lead content of these surfaces, performed by a NJ certified Lead Inspector/Risk Assessor.

**RISK ASSESSMENT:** An on-site investigation to help determine the existence of LBP hazards. This can include paint testing, dust, and soil sampling, water sampling and a visual inspection. The risk assessment report identifies lead hazards and potential options for lead hazard control. A certified risk assessor must conduct the assessment.

**CLEARANCE EXAMINATION:** Clearance is performed after hazard reduction, rehabilitation, renovation, repair, modernization, or maintenance activities to determine if a unit is safe for occupancy. It involves a visual inspection, analysis of dust and soil samples, and preparation of a report. A certified risk assessor that is independent from the company or individual conducting the lead hazard control activities should conduct the clearance examination.

**X-RAY FLUORESCENCE ANALYZER (XRF):** This device, often called an XRF, is used to help identify levels of lead in paint without disturbing the painted surfaces themselves. The unit uses X-rays to measure the lead content in the paint on a per square centimeter basis.



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**“LEAD SPEAK” A BRIEF GLOSSARY**

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**LEAD POISONING: Environmental Intervention Blood Lead Level (EIBLL):** The level of lead in blood that requires intervention in a child under the age of seventy-two (72) months (6 years). This is typically defined as a blood lead level of 20  $\mu\text{g}/\text{dL}$  (micrograms per deciliter) of whole blood or above for a single test, or blood levels of 15-19 in two tests taken at least three months apart.

**KEY UNITS OF MEASUREMENT**

**$\mu\text{g}$  (Microgram):** A microgram is  $1/1000^{\text{th}}$  of a milligram. To put this into perspective, a penny weighs 2 grams. To get a microgram, you would need to divide the penny into 2 million pieces. A microgram is one of those two million pieces.

**$\mu\text{g}/\text{dL}$  (microgram per deciliter):** Used to measure the level of lead in children's and worker's blood to establish whether intervention is needed. A deciliter is a little less than a half a cup.

**$\mu\text{g}/\text{ft}^2$  (micrograms per square foot):** the unit used to express levels of lead in dust samples. All reports should report levels of lead in dust in  $\mu\text{g}/\text{ft}^2$ ,  $\text{mg}/\text{cm}^2$  (milligrams per centimeter square): used to report levels of lead in paint thru XRF testing.

**PPM (parts per million):** Typically used to express the concentrations of lead in soil. Can also be used to express the amount of lead in a surface coating on a mass concentration basis. This measurement can also be shown as:  $\mu\text{g}/\text{gram}$  or  $\text{mg}/\text{kg}$  (soil) or  $\text{mg}/\text{l}$  (aqueous).

**PPB (parts per billion):** Typically used to express the amount of lead found in drinking water. This measurement is also sometimes expressed as:  $\mu\text{g}/\text{l}$ .

**EPA/HUD PUBLISHED LBP STANDARDS****Dust-thresholds for Lead Contamination**

- Floors: less than ( $<$ )  $40 \mu\text{g}/\text{ft}^2$
- Interior Window Sills:  $<250 \mu\text{g}/\text{ft}^2$
- Window Troughs:  $<400 \mu\text{g}/\text{ft}^2$

**Soil-thresholds for Lead Contamination**

- Play areas used by children 6 and under:  $<400 \mu\text{g}/\text{gram}$  or 400 PPM
- Other areas:  $<1200 \mu\text{g}/\text{gram}$  or 1200 PPM
- Threshold for abatement:  $<5000 \mu\text{g}/\text{gram}$  or 5000 PPM

**“LEAD SPEAK” A BRIEF GLOSSARY**

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NATIONAL CENTER FOR HEALTHY HOUSING: <http://www.leadshousing.org/>

NATIONAL LEAD INFORMATION CENTER AND CLEARINGHOUSE:  
1-800-424 LEAD, Fax: 301-585-7976 [www.epa.gov/lead/nlic.htm](http://www.epa.gov/lead/nlic.htm)

NATIONAL LEAD ASSESSMENT AND ABATEMENT COUNCIL:  
1-800-590-6522 Fax: 301-924-0265 <http://www.nlaac.org>

HUD's OFFICE OF HEALTH HOMES AND LEAD HAZARD CONTROL:  
<http://www.hud.gov/offices/lead>

THE ALLIANCE TO END CHILDHOOD LEAD POISONING:  
<http://www.aeclp.org>

THE ENVIRONMENTAL PROTECTION AGENCY LEAD PROGRAMS:  
<http://www.epa.gov/opptintr/lead> Voice: 1-202-260-2090

NEW JERSEY DEPARTMENT OF HEALTH, INDOOR ENVIRONMENTS PROGRAM  
<http://www.state.nj.us/health/iep/lead.shtml>

**ADDITIONAL INFORMATION:**

Lists of recalled products containing lead: [www.safetyalerts.com](http://www.safetyalerts.com). The Lead listing for info On lead-safe service providers and EPA accredited laboratories throughout the United States: <http://www.leadlisting.org>



**LEAD-BASED PAINT SURVEY REPORT AND  
RISK ASSESSMENT  
1108 BARNEGAT AVENUE, COMMON AREA  
SEASIDE HEIGHTS, NEW JERSEY  
SRP0037053**

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PARS

**APPENDIX D  
EMSL Laboratories Lead Report**





# EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>

[cinnaminsonleadlab@emsl.com](mailto:cinnaminsonleadlab@emsl.com)

EMSL Order:	201311911
CustomerID:	PARS51
CustomerPO:	1101
ProjectID:	GILBANE

Attn: **Firoz Jan**  
**PARS Environmental**  
**500 Horizon Drive**  
**Suite 540**  
**Robbinsville, NJ 08691**

Phone: (609) 890-7277  
Fax: (609) 890-9116  
Received: 11/12/13 6:11 PM  
Collected:

Project: **Gilbane Unit #2 / 1108 Barnegat Ave Seaside Heights, NJ**

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B\*/7000B)

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
BA-01 Site: Front Entrance Door/Floor	0001	11/13/2013	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>	
BA-02 Site: Bathroom/Floor	0002	11/13/2013	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>	
BA-03 Site: Kitchen Floor	0003	11/13/2013	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>	
BA-04 Site: Living Room/Window Sill	0004	11/13/2013	64 in <sup>2</sup>	<23 µg/ft <sup>2</sup>	
BA-05 Site: Common Area/Floor	0005	11/13/2013	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>	
BA-06 Site: Bedroom #1 Window Sill	0006	11/13/2013	64 in <sup>2</sup>	<23 µg/ft <sup>2</sup>	
BA-07 Site: Bedroom #2 Window Sill	0007	11/13/2013	64 in <sup>2</sup>	24 µg/ft <sup>2</sup>	
BA-08 Site: Living Room Floor	0008	11/13/2013	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>	
BA-09 Site: Blank	0009	11/13/2013	n/a	<10 µg/wipe	

Julie Smith - Laboratory Director  
NJ-NELAP Accredited:03036  
or other approved signatory

Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. QC data associated with this sample set is within acceptable limits, unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. \* slight modifications to methods applied. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 11/13/2013 17:28:02



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

# Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only): 20311911

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

Unit # 2  
MILBANE  
1108 BARNEGAT AVE - SEASIDE HEIGHTS - NJ

Company: PARS Environmental Inc.		EMSL-Bill to: <input type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 500 HORIZON DR.		Third Party Billing requires written authorization from third party	
City: Robbinsville	State/Province: NJ	Zip/Postal Code:	Country:
Report To (Name): FIORI Jan		Telephone #:	
Email Address: FJan@parsenviro.com		Fax #:	Purchase Order:
Project Name/Number: 1108 BARNEGAT AVE		Please Provide Results: <input type="checkbox"/> Fax <input type="checkbox"/> Email	
U.S. State Samples Taken: Seaside Heights		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options\* - Please Check

3 Hour   
  6 Hour   
  24 Hour   
  48 Hour   
  72 Hour   
  96 Hour   
  1 Week   
  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input type="checkbox"/> ASTM <input checked="" type="checkbox"/> non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: FIORI Jan      Signature of Sampler: *[Signature]*

Sample #	Location	Volume/Area	Date/Time Sampled

Client Sample #'s: -      Total # of Samples: 9

Relinquished (Client): *[Signature]*      Date: 11/12/13      Time:      *[Signature]*

Received (Lab): *[Signature]*      Date: 11/12/13      Time: 6:10 PM

Comments: Rec'd (Lab) 11/12/13

9





# EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>

[cinnaminsonleadlab@emsl.com](mailto:cinnaminsonleadlab@emsl.com)

EMSL Order:	201311909
CustomerID:	PARS51
CustomerPO:	
ProjectID:	GILBANE

Attn: **Firoz Jan**  
**PARS Environmental**  
**500 Horizon Drive**  
**Suite 540**  
**Robbinsville, NJ 08691**

Phone: (609) 890-7277  
Fax: (609) 890-9116  
Received: 11/12/13 6:09 PM  
Collected: 11/12/2013

Project: **Gilbane Unit #5 / 1108 Barnegat Avenue Seaside Heights, NJ**

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B\*/7000B)

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
Pb-01 Site: Front Entrance Door/Floor	0001	11/12/2013	11/13/2013	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
Pb-02 Site: Bathroom Floor/Floor	0002	11/12/2013	11/13/2013	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
Pb-03 Site: Kitchen Floor/Floor	0003	11/12/2013	11/13/2013	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
Pb-04 Site: Living Room Window Sill	0004	11/12/2013	11/13/2013	64 in <sup>2</sup>	25 µg/ft <sup>2</sup>
Pb-05 Site: Kitchen Window Sill	0005	11/12/2013	11/13/2013	64 in <sup>2</sup>	<23 µg/ft <sup>2</sup>
Pb-06 Site: Bedroom #1/Window Sill	0006	11/12/2013	11/13/2013	64 in <sup>2</sup>	26 µg/ft <sup>2</sup>
Pb-07 Site: Bedroom #2/Window Sill	0007	11/12/2013	11/13/2013	64 in <sup>2</sup>	44 µg/ft <sup>2</sup>
Pb-08 Site: Common Area-Floor	0008	11/12/2013	11/13/2013	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
Pb-09 Site: Blank	0009	11/12/2013	11/13/2013	n/a	<10 µg/wipe

Julie Smith - Laboratory Director  
NJ-NELAP Accredited:03036  
or other approved signatory

Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. QC data associated with this sample set is within acceptable limits, unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. \* slight modifications to methods applied. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 11/13/2013 17:29:38



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

# Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

GILBANE  
UNIT # 5 201311909

Company: <u>PARS Environmental Inc.</u>		EMSL-Bill to: <input type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>500 HORIZON DRIVE</u>		Third Party Billing requires written authorization from third party	
City: <u>ROBBINSVILLE</u>	State/Province: <u>NJ</u>	Zip/Postal Code:	Country:
Report To (Name): <u>FIRAZ Jan</u>		Telephone #: <u>215-435-3674</u>	
Email Address: <u>FJan@Parsenviro.com</u>		Fax #:	Purchase Order:
Project Name/Number: <u>1108, BARNEGAT AVE.</u>		Please Provide Results: <input type="checkbox"/> Fax <input type="checkbox"/> Email	
U.S. State Samples Taken: <u>SEASIDE HEIGHTS-NJ</u>		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

**Turnaround Time (TAT) Options\* - Please Check**

3 Hour   
  6 Hour   
  24 Hour   
  48 Hour   
  72 Hour   
  96 Hour   
  1 Week   
  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input checked="" type="checkbox"/> non ASTM <input type="checkbox"/> <small>*if no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater    Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water    Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: FIRAZ Jan      Signature of Sampler: [Signature]

Sample #	Location	Volume/Area	Date/Time Sampled

Client Sample #'s: -      Total # of Samples: 9

Relinquished (Client): [Signature]      Date: 11/12/13      Time:  

Received (Lab): [Signature]      Date: 11/12/13      Time: 6:10 PM

Comments: Local Blvd

9





**LEAD-BASED PAINT SURVEY REPORT AND  
RISK ASSESSMENT  
1108 BARNEGAT AVENUE, COMMON AREA  
SEASIDE HEIGHTS, NEW JERSEY  
SRP0037053**

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PARS

**APPENDIX E  
EMSL Laboratories Lead in Soil Report**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>[cinnaminsonleadlab@emsl.com](mailto:cinnaminsonleadlab@emsl.com)

EMSL Order: 201311904

CustomerID: PARS51

CustomerPO:

ProjectID: GILBANE

Attn: **Firoz Jan**  
**PARS Environmental**  
**500 Horizon Drive**  
**Suite 540**  
**Robbinsville, NJ 08691**

Phone: (609) 890-7277  
 Fax: (609) 890-9116  
 Received: 11/12/13 6:11 PM  
 Collected:

Project: **Gilbane / Unit #2; 1108 Barnegat Ave. Seaside Heights, NJ****Test Report: Lead in Soils by Flame AAS (SW 846 3050B\*/7000B)**

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
U-01	0001		11/13/2013	240 mg/Kg
Site: East Side- along the dripline				
U-02	0002		11/13/2013	270 mg/Kg
Site: West Side- along the dripline				

Julie Smith - Laboratory Director  
 NJ-NELAP Accredited:03036  
 or other approved signatory

Reporting limit is 40 mg/kg based on the minimum sample weight per our SOP. The QC data associated with these sample results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. Results reported based on dry weight. \*slight modification to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 11/13/2013 17:21:56





EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

**Lead (Pb) Chain of Custody**  
EMSL Order ID (Lab Use Only):

201311904 EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

914 BARNE / Unit # 2

1108 BARNESBT AVE - SEASIDE HEIGHTS NJ

Company: PARS environmental ID. EMSL-Bill to:  Same  Different  
 Street: 500 HORIZON DR. If Bill to is Different note instructions in Comments\*\*  
 City: ROBBINSVILLE State/Province: NJ Zip/Postal Code: \_\_\_\_\_ Country: \_\_\_\_\_  
 Report To (Name): FIROZ Jan Telephone #: \_\_\_\_\_  
 Email Address: FJan@Parsenviro-ny Fax #: \_\_\_\_\_ Purchase Order: \_\_\_\_\_  
 Project Name/Number: UNIT # 2 / 1108 BARNE Please Provide Results:  Fax  Email  
 U.S. State Samples Taken: Seaside Heights - 19AT CT Samples:  Commercial/Taxable  Residential/Tax Exempt

Turnaround Time (TAT) Options\* - Please Check  
 3 Hour  6 Hour  24 Hour  48 Hour  72 Hour  96 Hour  1 Week  2 Week  
 \*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
	Other:			<input type="checkbox"/>

Name of Sampler: FIROZ Jan Signature of Sampler: [Signature]

Sample #	Location	Volume/Area	Date/Time Sampled
<u>U-01</u>	<u>East side - along the drip line</u>		
<u>U-02</u>	<u>West side along the drip line</u>		

Client Sample #'s: - Total # of Samples: 2

Relinquished (Client): [Signature] Date: 11/12/13 Time: \_\_\_\_\_  
 Received (Lab): [Signature] Date: 11/12/13 Time: 6:10 PM  
 Comments: help 11-13-13

2

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>[cinnaminsonleadlab@emsl.com](mailto:cinnaminsonleadlab@emsl.com)

EMSL Order: 201311903

CustomerID: PARS51

CustomerPO:

ProjectID: GILBANE

Attn: **Firoz Jan**  
**PARS Environmental**  
**500 Horizon Drive**  
**Suite 540**  
**Robbinsville, NJ 08691**

Phone: (609) 890-7277  
 Fax: (609) 890-9116  
 Received: 11/12/13 6:19 PM  
 Collected:

Project: **Gilbane; Unit #5****Test Report: Lead in Soils by Flame AAS (SW 846 3050B\*/7000B)**

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
S-01	0001		11/13/2013	230 mg/Kg
Site: North Side- along the dripline				
S-02	0002		11/13/2013	260 mg/Kg
Site: South Side- along the dripline				

Julie Smith - Laboratory Director  
 NJ-NELAP Accredited:03036  
 or other approved signatory

Reporting limit is 40 mg/kg based on the minimum sample weight per our SOP. The QC data associated with these sample results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. Results reported based on dry weight. \*slight modification to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 11/13/2013 17:22:08



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

<sup>SOIL</sup>  
**Lead (Pb) Chain of Custody**  
EMSL Order ID (Lab Use Only):

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

GILBANE.

UNIT # 5 201311903

Company: PARS Environmental Inc. EMSL-Bill to:  Same  Different  
 If Bill to is Different note instructions in Comments\*\*  
 Street: 500 HORIZON DR.  
 City: ROSSBORO NJ State/Province: NJ Zip/Postal Code: \_\_\_\_\_ Country: \_\_\_\_\_  
 Report To (Name): FIROZ Jan Telephone #: 215-435-3674  
 Email Address: firoz@parsenviro.com Fax #: \_\_\_\_\_ Purchase Order: \_\_\_\_\_  
 Project Name/Number: 1108, BARNBET AVE Please Provide Results:  Fax  Email  
 U.S. State Samples Taken: SEASIDE HEIGHTS NJ CT Samples:  Commercial/Taxable  Residential/Tax Exempt

Turnaround Time (TAT) Options\* - Please Check  
 3 Hour  6 Hour  24 Hour  48 Hour  72 Hour  96 Hour  1 Week  2 Week  
 \*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	<del>SW846-7000B</del>	<del>Flame Atomic Absorption</del>	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: FIROZ Jan Signature of Sampler: [Signature]

Sample #	Location	Volume/Area	Date/Time Sampled
S-01	North side - along the dripline		
S-02	South side along the dripline		

Client Sample #'s: \_\_\_\_\_ Total # of Samples: 2

Relinquished (Client): [Signature] Date: 11/12/13 Time: \_\_\_\_\_

Received (Lab): [Signature] Date: 11/12/13 Time: 6:10pm

Comments: \_\_\_\_\_  
[Signature] 11-13-13 815A

2

## LEAD HAZARD EVALUATION NOTICE

Address: 1108 Barnegat Avenue, Unit 2, Seaside Heights, NJ

Evaluation Completed (circle one): Paint Inspection    Paint Testing    **Risk Assessment**

Date: 11/12/2013

### Summary of Results:

No lead-based paint or lead-based paint hazards were found.

Lead-based paint and/or lead-based paint hazards were found. See attachment for details

Contact person for more information about the risk evaluation:

Printed name: Firoz Jan



Signature: \_\_\_\_\_

Date: 3/16/2014

Organization: PARS Environmental, Inc.

Street: 500 Horizon Drive, Suite 540

City & State: Robbinsville, NJ

Zip: 08691

Phone #: 609-890-7277

Person who prepared this notice:

Printed name: Margaret Halasnik



Signature: \_\_\_\_\_

Date: 3/16/2014

Organization: PARS Environmental, Inc.

Street: 500 Horizon Drive, Suite 540

City & State: Robbinsville, NJ

Zip: 08691

Phone #: 609-890-7277

Summarize the types and locations of lead-based paint hazards below or attach your own summary. The summary must list at least the bare soil locations, dust-lead locations, and/or building components (including type of room or space and the material underneath the paint), and types of lead-based paint hazards found:

<b>Contaminated Soil</b>		
<b>Area</b>	<b>mg/g (ppm)</b>	<b>Location</b>
<input type="checkbox"/> None		<b>Refer to Common Area Report</b>
<input type="checkbox"/> Perimeter	___ mg/g (ppm)	
<input type="checkbox"/> Play Area	___ mg/g (ppm)	
<input type="checkbox"/> Other	___ mg/g (ppm)	

<b>Contaminated Dust</b>		
<b>Area</b>	<b>µg/SF</b>	<b>Location</b>
<input checked="" type="checkbox"/> None		<b>See Table 3</b>
<input type="checkbox"/> Windowsill	___ µg/SF	
<input type="checkbox"/> Floor	___ µg/SF	
<input type="checkbox"/> Other	___ µg/SF	
<input type="checkbox"/> Other	___ µg/SF	

<b>Other Hazards</b>				
<b>Component*</b>	<b>Location</b>	<b>Condition (good, fair, poor)</b>	<b>Friction or Impact Surface?</b>	<b>Lead Content (if known)</b>
1. <b>See Table 1</b>				___ mg/cm <sup>2</sup> (ppm)
2.				___ mg/cm <sup>2</sup> (ppm)
3.				___ mg/cm <sup>2</sup> (ppm)
4.				___ mg/cm <sup>2</sup> (ppm)
5.				___ mg/cm <sup>2</sup> (ppm)
6.				___ mg/cm <sup>2</sup> (ppm)
7.				___ mg/cm <sup>2</sup> (ppm)
8.				___ mg/cm <sup>2</sup> (ppm)
9.				___ mg/cm <sup>2</sup> (ppm)
10.				___ mg/cm <sup>2</sup> (ppm)
11.				___ mg/cm <sup>2</sup> (ppm)
12.				___ mg/cm <sup>2</sup> (ppm)
13.				___ mg/cm <sup>2</sup> (ppm)
14.				___ mg/cm <sup>2</sup> (ppm)

\* Components include but are not limited to (interior and exterior) windows, doors, trim, fences, porches, walls and floors.



PARS  
Environmental  
Inc.

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**LEAD-BASED PAINT SURVEY REPORT  
AND RISK ASSESSMENT  
1108 BARNEGAT AVENUE, UNIT #2  
SEASIDE HEIGHTS, NEW JERSEY  
SRP0037053**

**PREPARED BY**

**PARS Environmental, Inc.  
500 Horizon Drive Suite 540  
Robbinsville, N.J. 08691  
(609) 890-7277**

**PARS Project No.: 1011-02**

**NOVEMBER 17, 2013**



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**EXECUTIVE SUMMARY**

On November 12, 2013, PARS Environmental, Inc. (PARS) conducted a Lead-Based Paint (LBP) Inspection and Lead Hazard Risk Assessment (hereinafter the "Assessment") of the residential property located at 1108 Barnegat Avenue, Unit #2, Seaside Heights, New Jersey (hereinafter the "Property"). The Property had sustained damage during the October 2012 Hurricane Sandy and could be eligible for funding under the New Jersey Landlord Rental Repair (LRR) Program, which is being administered by the State of New Jersey Department of Community Affairs (NJDCA). NJDCA is providing funds made available by the US Department of Housing and Urban Development (HUD). PARS was authorized to perform this work by Gilbane Building Company (GBCO).

The purpose of the Assessment was to identify the potential presence of lead hazards on/ in painted surfaces inside and outside the structure, including deteriorated LBP and LBP that may be disturbed during planned renovations.

The apartment complex was constructed in the 1950s. Unit #2 is located on the second floor of the Property. It consists of three bedrooms, living room, bathroom, and a kitchen area. The interior of the building appeared to be in good condition at the time of the Assessment.

The results of the Assessment indicate that **no lead-based paint or lead-based paint hazards were identified in the area surveyed** at the time of the Assessment.

**Identified LBP Surfaces**

- **No LBP surfaces were identified during the Assessment.**

**Existing LBP Hazards and Potential Lead Hazards**

The following substrates coated with LBP are deteriorated (poor condition) and currently present existing LBP hazards:

- **No LBP hazards or potential Lead hazards were identified during the Assessment.**

**Identified Intact LBP Surfaces-No Current Hazard**

The following area is coated with LBP that is intact and does not currently present lead hazards.

- **No LBP surfaces were identified during the Assessment.**

**Lead Dust Hazards**

A lead dust hazard was identified in the following locations:

- **No lead dust hazards were identified during the Assessment.**





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**Soil Contamination**

A lead hazard was identified in soil at the following building location:

- **Soil at the Property is common to each unit and is addressed under separate cover.**

**Non-LBP Renovation Components**

Renovation activities may include disturbance of the following components that do not contain LBP:

- Interior walls in the rooms that were tested;
- Interior doors and door components that were tested; and
- Interior windows and window components that were tested.

**Recommendations**

No further action is recommended.

## **1.0 BACKGROUND, PURPOSE AND SCOPE OF WORK**

On November 12, 2013, PARS Environmental, Inc. (PARS) conducted a Lead-Based Paint (LBP) Inspection and Lead Hazard Risk Assessment (hereinafter the “Assessment”) of the residential property located at 1108 Barnegat Avenue, Unit #2, Seaside Heights, New Jersey (hereinafter the “Property”). The Property had sustained damage during the October 2012 Hurricane Sandy and could be eligible for funding under the New Jersey Landlord Rental Repair (LRR) Program, which is being administered by the State of New Jersey Department of Community Affairs (NJDCA). NJDCA is providing funds made available by the US Department of Housing and Urban Development (HUD). PARS was authorized to perform this work by Gilbane Building Company (GBCO).

The purpose of the Assessment was to identify the potential presence of lead hazards on/ in surfaces inside and outside the structure, including deteriorated LBP and LBP that may be disturbed during planned renovations. HUD, the United States Environmental Protection Agency (USEPA), and the NJDCA New Jersey Lead Hazard Evaluation and Abatement Code (N.J.A.C. 5:17) consider painted surfaces containing lead at a concentration of 1.0 milligram per square centimeter ( $\text{mg}/\text{cm}^2$ ) or greater to be LBP. LBP testing was conducted to assess whether LBP was present at levels exceeding the HUD, USEPA, and New Jersey Lead Hazard Evaluation and Abatement Code.

The Scope of Work included the following:



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- Owner/occupant interviews and a visual inspection of all painted and coated interior and exterior surfaces of the dwelling, all common areas, and, if present, all outbuildings and fences;
- X-Ray Fluorescence (XRF) analyzer testing for lead content of all coatings on surfaces that maybe disturbed during the renovation;
- Lead hazard identification of deteriorated paint, friction, impact and chewable surfaces;
- Interior dust sampling; and
- Soil sampling, if appropriate.

## **2.0 APPLICABLE REGULATORY STANDARDS AND FIELD METHODOLOGIES**

### **2.1 Applicable Regulatory Standards**

The inspection and Assessment were performed in accordance with the regulatory standards listed below, as appropriate:

1. HUD Community Development Block Grant (CDBG) Lead Safe Housing Rule;
2. The guidelines of the Steel Structures Painting Council referenced in N.J.A.C. 5:17-1.3;  
and
3. Rules adopted by the U.S. Environmental Protection Agency at 40 C.F.R. 745.

### **2.2 Owner/Interview Visual Inspection**

The Assessment was performed on November 12, 2013, by Mr. Firoz Jan, a licensed New Jersey Department of Health (NJDOH) Lead Inspector/Risk Assessor (Permit # 026145). PARS is certified by the NJDCA as a Lead Evaluation Contractor (Cert #00416E). The Assessment commenced at 12:00 pm and concluded at approximately 4:00 pm. A copy of Mr. Jan's license is provided in **Appendix A**.

The property owner contact information is:

Owner: Mr. Leonidas Kopsaftis  
Address: 1108 Barnegat Avenue, Unit 2  
Seaside Heights, NJ 08751  
Day Phone # 732-606-7233

Based on an interview with the Owner, there has not been previous LBP testing/assessment at the Property.

### **2.3 XRF Testing and Lead Hazard Identification**

Painted surfaces were evaluated according to the specifications described in the protocols for LBP inspection in the HUD Guidelines for the Evaluation and Control of Lead-Based Paint and



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requirements of the Lead Hazard Evaluation and Abatement Code using an X-Ray Fluorescence (XRF) analyzer. The XRF used for this evaluation was an INNOV-X SYSTEM, Model No. ALPHA-6500, Serial No. 10768.

A rough sketch is made of the Property. Instrument calibrations are performed at least three times before the start of testing and performed at least every four hours, and at the end of each inspection. At least one test location per testing combination, four readings are obtained, one on each wall, (interior room equivalent or exterior). When upper and lower walls have a different painting history, four tests are required of each.

The selection of the test locations is representative of the paint over the areas which are most likely to be coated with old paint or other lead-based coatings. Thus, locations, where the paint appears to be thickest are selected. Locations where paint has worn away or been scraped off are not selected. At each test location:

- All layers of paint are included; and
- The XRF probe faceplate is placed flat against the surface.

Areas over pipes, electrical surfaces, nails and other possible interferences are avoided, if possible, as these materials may contain lead and contribute to the XRF reading. When testing combinations are repeated within a room equivalent (e.g., window, or door system), one test is taken on one part of the component system (e.g., the casing from window B) and another test from another part of the system from a separate component (e.g., the sash from window C-2), the same strategy would apply to the door system. If a room has two or more doors (including closet or pantry doors), the casing or jamb of the door itself is tested. If each door may have a different painting history, then each door system is tested separately.

Calibration and actual readings were taken using the Lead-in-Paint K+L variable reading time mode. The instrument calibration was performed in accordance with the Performance Characteristic Sheet (PCS) for this instrument. The instrument PCS is in **Appendix B**. The instrument was calibrated using the paint film nearest 1.0 mg/cm<sup>2</sup> in the National Institute of Standard & Technology (NIST) Standard Reference Material. At least three calibration readings were taken before and during testing to insure manufacturer standards were met.

The tested surfaces included:

- Walls / Ceilings (Drywall/Wood)
- Doors, Frames, and Jambs
- Windows, Frames, and Sills
- Baseboards

A total of 50 measurements were taken from painted surfaces. The XRF measurements were collected following the regulatory standards referenced in Section 2.1 of this report to evaluate the potential presence of LBP in the dwelling.



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#### **2.4 Interior Dust Wipe Sampling**

Interior dust wipe sampling is conducted in areas where the LBP surfaces are observed to be in deteriorated condition. USEPA and HUD define “*deteriorated paint*” as “*any interior or exterior paint or other coating that is peeling, chipping, chalking or cracking, or any paint or coating located on an interior or exterior surface or fixture that is otherwise damaged or separated from the substrate*”. This definition is most typically associated with surface conditions only. Usage of this term in describing conditions other than those associated with surface coatings are not known to be defined by USEPA or HUD. Wipe samples are collected from locations as observed during the Assessment:

- 1) In or near areas testing positive for LBP (window troughs, window sills, etc.);
- 2) In or near friction or impact areas (window troughs/sills, floors at doorway entrances, etc.);
- 3) In high traffic /common areas (doorway entrances, laundry rooms, bedrooms, etc.); and,
- 4) In or near areas where deteriorated paint exists (wherever observed during the Assessment).

Wipe sampling was conducted in the living areas (i.e., Front Entrance, Bathroom, Kitchen, Living Room, Common Areas, Bedrooms) to assess the presence of potential lead-dust concentrations. USEPA considers lead in dust to be a hazard if lead concentrations, as determined by wipe sampling, are equal to or greater than 40 micrograms per square foot ( $\mu\text{g}/\text{ft}^2$ ) on floors, 250  $\mu\text{g}/\text{ft}^2$  on window sills, and 400  $\mu\text{g}/\text{ft}^2$  on troughs and exterior surfaces.

Eight (8) wipe samples including one (1) Quality Control wipe sample were collected from the floors at the Front Entrance, Bathroom, Kitchen, and Living Room and window sills in Bedrooms #1 and #2 and Living Room. The samples were collected from areas most likely to be lead contaminated if lead-in-dust is present, in accordance with the requirements of ASTM Standard E-1728, *Standard Practice for Field Collection of Settled Dust Samples Using Wipe Sampling Methods for Lead Determination by Atomic Spectrometry Techniques*.

Samples were collected by wiping either a 12 inch x 12 inch surface area or other pre-measured surface with alcohol free Ghost Wipes. The surface area was wiped side-to-side in ‘S’ like motions. The samples were placed in plastic tubes and submitted for laboratory analysis to EMSL Analytical Inc. (EMSL) which is an American Industrial Hygiene Association, Environmental Lead Laboratory Accreditation Program (AIHA-ELLAP # 100194) certified laboratory.

#### **2.5 Soil Sampling**

Soil at the Property is common to each unit and is addressed under separate cover.



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### 3.0 RESULTS

#### 3.1 Owner/Interview Visual Inspection

The apartment complex was constructed in the 1950s. Unit #2 is located on the second floor of the Property. It consists of three bedrooms, living room, bathroom, and a kitchen area. The interior of the building appeared to be in good condition at the time of the Assessment. The following potential LBP painted/coated surfaces were identified:

- Walls / Ceilings (Drywall/Wood)
- Doors, Frames, and Jambs
- Windows, Frames, and Sills
- Baseboards

#### 3.2 XRF Testing and Lead Hazard Identification

XRF testing was conducted on painted components listed above. The XRF readings and their associated LBP levels are summarized in **Table 1**. XRF Direct Readings are provided in **Table 2**.

##### Identified LBP Surfaces

LBP in amounts equal to or exceeding the USEPA and/or HUD criteria of 1.0 mg/cm<sup>2</sup> was found on the following painted substrates:

- **No LBP surfaces were identified during the Assessment.**

##### Existing LBP Hazards

The following substrates coated with LBP are deteriorated (poor condition) and currently present existing LBP hazards:

- **No LBP hazards or potential Lead hazards were identified during the Assessment.**

A glossary of terms and a list of publications and resources addressing lead hazards and their health effects is provided in **Appendix C**.

##### Intact LBP Surfaces-No Current Hazard

The following area is coated with LBP that is intact and does not currently present lead hazards.

- **No LBP surfaces were identified during the Assessment.**



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### **3.3 Interior Dust Wipe Sampling**

**None of the eight (8) wipe samples exceeded the lead dust concentrations of 40 µg/ft<sup>2</sup> on floors or 250 µg/ft<sup>2</sup> on window sills.** The results of the wipe sampling are presented as **Table 3**. Laboratory analytical results are provided in **Appendix D**.

### **3.4 Soil Sampling**

**Soil at the Property is common to each unit and is addressed under separate cover.**

## **4.0 LEAD HAZARD CONTROL OPTIONS**

Lead-safe work practices and worker/occupant protection practices complying with current USEPA, HUD, and Occupational Safety and Health Administration (OSHA) standards will be necessary to safely complete all work involving the disturbance of LBP coated surfaces and components. In addition, any work considered lead hazard control will enlist the use of interim control (temporary) methods and/or abatement (permanent) methods. It should be noted that all lead hazard control activities have the potential of creating additional hazards, or even creating hazards that were not present before. All persons and/or firms performing lead hazard control activities must have received proper training in Lead-Safe Work Practices and/or Lead Abatement. Details for the listed lead hazard control options and issues surrounding occupant/worker protection practices can be found in the publication titled: *Guidelines for the Evaluation and Control of LBP Hazards in Housing (Second Edition, July 2012)* (HUD Guidelines), published by HUD, as well as in the OSHA regulations found in 29 CFR, Part 1926.62, known as the OSHA Lead Exposure in Construction Industry Standard.

The associated cost estimates, unless otherwise noted, include the labor and materials to accomplish the stated activity and most additional funds typically found to be necessary to complete worker protection, site containment, and cleanup procedures. These are approximate estimates only and due to a variety of potential factors, may not accurately reflect all local cost factors. A precise estimate must be obtained from a NJ certified LBP abatement contractor or a contractor trained in lead safe work practices. Properly trained and/or licensed persons, as well as properly licensed firms (as mandated) should accomplish all abatement/interim control activities conducted at this residence.

*Interim controls*, as defined by HUD, means a set of measures designed to temporarily reduce human exposure to LBP hazards and/or lead containing materials. These measures include, but are not limited to: component and/or substrate repairs; paint and varnish repairs; the removal of dust-lead hazards; renovation; remodeling; maintenance; temporary containment; placement of seed, sod or other forms of vegetation over bare soil areas; the placement of at least six (6) inches of an appropriate mulch material over an impervious material, laid on top of bare soil areas; the tilling of bare soil areas; extensive and specialized cleaning; and ongoing LBP maintenance activities.



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*Abatement*, as defined by HUD, means any set of measures designed to permanently eliminate LBP and/or LBP hazards. The product manufacturer and/or contractor must warrant abatement methods to last a minimum of 20 years, or these methods must have a design life of at least 20 years. These activities include, but are not limited to:

- The removal of LBP from substrates and components;
- The replacement of components or fixtures with lead containing materials and/or LBP;
- The permanent enclosure of LBP with construction materials;
- The encapsulation of LBP with approved products;
- The removal or permanent covering (concrete or asphalt) of soil-lead hazards; and,
- Extensive and specialized cleaning activities.

Based on the findings of the Assessment, PARS recommends the following action be implemented to minimize the potential exposure to LBP:

- **No further action is recommended.**

#### **5.0 SPECIAL CLEANING PRECEDING LEAD HAZARD CONTROL ACTIVITIES**

No special cleaning preceding lead hazard control activities are warranted at this time.

#### **6.0 SPECIAL CLEANING FOLLOWING LEAD HAZARD CONTROL ACTIVITIES**

No special cleaning following lead hazard control activities are warranted at this time.

#### **7.0 ONGOING MONITORING**

Ongoing monitoring is necessary in all dwellings in which LBP is known or assumed to be present. At these dwellings, the very real potential exists for LBP hazards to develop. Hazards can develop by means such as, but not limited to: the failure of lead hazard control measures; previously intact LBP becoming deteriorated; dangerous levels of lead-in-dust (dust lead) re-accumulating through friction, impact, and deterioration of paint; or, through the introduction of contaminated exterior dust and soil into the interior of the structure.

Ongoing monitoring typically includes two different activities: re-evaluation and annual visual surveys. A re-evaluation is a risk assessment that includes limited soil and dust sampling and a visual evaluation of paint films and any existing lead hazard controls. Re-evaluations are supplemented with visual surveys by the Homeowner, which should be conducted at least once a year. Homeowner conducted visual surveys do not replace the need for professional re-evaluations. Visual surveys should confirm that all paint with known or suspected LBP are not



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deteriorating, that lead hazard control methods have not failed, and that structural problems do not threaten the integrity of any remaining known, assumed or suspected LBP. The partial table below is taken from **Table 6.1, Standard Re-evaluation Schedules**, as found in the HUD Guidelines. It is intended as a guideline for the Homeowner to assess the condition of areas where hazard control activities occurred.

Factors at this residence require the use of **Ongoing Monitoring Schedule Number 1 (No Action)** to dictate monitoring protocol.

<b>LBP Schedule</b>	<b>Original Evaluation Results</b>	<b>Action taken</b>	<b>Re-evaluation Frequency &amp; Duration</b>	<b>Visual Survey Schedule</b>
1	Combination risk assessment/inspection finds no leaded dust or soil and no lead-based paint.	None.	None.	None

### 8.0 DISCLOSURE REGULATIONS

Every purchaser of any interest in residential real property on which a residential dwelling was built prior to 1978 must be notified that such property may present exposure to lead from LBP that may place young children at risk of developing lead poisoning. The seller must disclose any known information concerning LBP or LBP hazards. The seller must also disclose information such as the location of the LBP and/or LBP hazards, and the condition of the painted surfaces. Lead poisoning in young children may produce permanent neurological damage, including learning disabilities, reduced intelligence quotient, behavioral problems, and impaired memory. Lead poisoning also poses a particular risk to pregnant women. The seller of any interest in residential real property is required to provide the buyer with any information on LBP hazards from risk assessments or inspections in the seller’s possession and notify the buyer of any known lead-based paint hazards. A risk assessment or inspection for possible LBP hazards is recommended prior to purchase.

### 9.0 FUTURE REMODELING PRECAUTIONS

Deteriorated or disturbed painted surfaces may still contain LBP and may pose a hazard, especially during renovation. The OSHA Lead in Construction Standard 29 CFR 1926.62 states that those “negative” readings (i.e., those below the HUD/USEPA definition of what constitutes LBP (1.0 mg/cm<sup>2</sup>)) do not relieve contractors from performing exposure assessments (personal air monitoring) on their employees, and should not be interpreted as lead free. Although a reading may indicate “negative”, airborne lead concentrations still may exceed the OSHA Action Level or the OSHA Permissible Exposure Limit (PEL) depending on the work activity.





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Each painted surface observed during the Assessment was tested for the presence of LBP. Only LBP hazards that were identified are addressed in this report. However, LBP, dust lead hazards, and/or soil lead hazards may be present at other locations on the property. Additional paint testing should precede any future remodeling activities that occur at any untested areas. Additional dust and/or soil sample collection and analysis should follow any hazard control activity, repair, remodeling, or renovation effort, and any other work efforts that may in any way disturb LBP and/or any lead containing materials. These Assessment activities will help the Homeowner to ensure the health and safety of the occupants and the neighborhood. Details concerning lead safe work techniques and approved hazard control methods can be found in the HUD publication titled: *“Guidelines for the Evaluation and Control of LBP Hazards in Housing” (Second Edition, July 2012)*.

**10.0 CONDITIONS AND LIMITATIONS**

This report is prepared for the sole benefit of NJDCA and GBCO under the LRR Program and may not be relied upon by any other person or entity without the written authorization of PARS. This is our report of a visual survey, XRF analysis of the tested components, and wipe samples. The presence or absence of LBP or LBP hazards applies only to the tested or assessed surfaces on the date of the field visit and it should be understood that the conditions may change due to deterioration or maintenance. The results and material conditions noted within this report were accurate at the time of the evaluation and in no way reflect the conditions at the site tested after November 12, 2013. No other environmental concerns or conditions were addressed during this evaluation.

-o0o-

PARS appreciates the opportunity to assist the NJDCA and GBCO with this project. Should you have any questions or comments please feel free to contact us at (609) 890-7277.

Respectfully submitted,

**PARS ENVIRONMENTAL, INC.**

Firoz Jan  
Project Industrial Hygienist  
NJDOH Lead Inspector / Risk Assessor  
Permit # 026145

Margaret Halasnik  
Principal Environmental Scientist



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---

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**TABLE 1  
XRF Lead-Based Paint Test Results**



**TABLE 1**  
**XRF Lead-Based Paint Test Results**  
**1108 Barnegat Avenue, Unit # 2**  
**Seaside Heights, NJ**  
**SRP0037053**

Date	Reading	Room	Component	Substrate	Paint Condition	Paint Color	Friction, Impact, or Teeth Marked Surface F/I/TM	Result	Lead Content (mg/cm <sup>2</sup> )
12-Nov-13	56	Standardization						PASS	
<b>12-Nov-13</b>	<b>57</b>	<b>Calibration</b>	<b>Red Film</b>	<b>Metal</b>	<b>Good</b>	<b>Red</b>		<b>Positive</b>	<b>1.05</b>
<b>12-Nov-13</b>	<b>58</b>	<b>Calibration</b>	<b>Red Film</b>	<b>Metal</b>	<b>Good</b>	<b>Red</b>		<b>Positive</b>	<b>1.08</b>
<b>12-Nov-13</b>	<b>59</b>	<b>Calibration</b>	<b>Red Film</b>	<b>Metal</b>	<b>Good</b>	<b>Red</b>		<b>Positive</b>	<b>1.05</b>
12-Nov-13	60	Bedroom RM-1	North Wall	Drywall	Good	Beige		Negative	0
12-Nov-13	61	Bedroom RM-1	South Wall	Drywall	Good	Beige		Negative	0
12-Nov-13	62	Bedroom RM-1	East Wall	Drywall	Good	Beige		Negative	0
12-Nov-13	63	Bedroom RM-1	West Wall	Drywall	Good	Beige		Negative	0
12-Nov-13	64	Bedroom RM-1	Door	Wood	Good	Blue		Negative	0
12-Nov-13	65	Bedroom RM-1	Door Jamb	Wood	Good	Blue		Negative	0
12-Nov-13	66	Bedroom RM-1	Door Frame	Wood	Good	Blue		Negative	0
12-Nov-13	67	Bedroom RM-1	Window Sill	Wood	Good	Blue		Negative	0
12-Nov-13	68	Bedroom RM-1	Window Frame	Wood	Good	Blue		Negative	0
12-Nov-13	69	Bedroom RM-1	Window sash	Wood	Good	Blue		Negative	0
12-Nov-13	70	Bedroom RM-1	Base board	Wood	Good	Blue		Negative	0
12-Nov-13	71	Bedroom RM-1	Ceiling	Drywall	Good	Beige		Negative	0
12-Nov-13	72	Bedroom RM-2	East Wall	Drywall	Good	Beige		Negative	0
12-Nov-13	73	Bedroom RM-2	West Wall	Drywall	Good	Beige		Negative	0
12-Nov-13	74	Bedroom RM-2	North Wall	Drywall	Good	Beige		Negative	0
12-Nov-13	75	Bedroom RM-2	South Wall	Drywall	Good	Beige		Negative	0
12-Nov-13	76	Bedroom RM-2	Window Frame	Wood	Good	Blue		Negative	0.01
12-Nov-13	77	Bedroom RM-2	Window Sill	Wood	Good	Blue		Negative	0
12-Nov-13	78	Bedroom RM-2	Window Sash	Wood	Good	Blue		Negative	0
12-Nov-13	79	Bedroom RM-2	Door Frame	Wood	Good	Blue		Negative	0
12-Nov-13	80	Bedroom RM-2	Door Jamb	Wood	Good	Blue		Negative	0
12-Nov-13	81	Bedroom RM-2	Door	Wood	Good	Beige		Negative	0
12-Nov-13	82	Bedroom RM-3	West Wall	Drywall	Good	Beige		Negative	0



**TABLE 1**  
**XRF Lead-Based Paint Test Results**  
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**SRP0037053**

Date	Reading	Room	Component	Substrate	Paint Condition	Paint Color	Friction, Impact, or Teeth Marked Surface F/I/TM	Result	Lead Content (mg/cm <sup>2</sup> )
12-Nov-13	83	Bedroom RM-3	North Wall	Drywall	Good	Beige		Negative	0
12-Nov-13	84	Bedroom RM-3	East Wall	Drywall	Good	Beige		Negative	0
12-Nov-13	85	Bedroom RM-3	South Wall	Drywall	Good	Beige		Negative	0
12-Nov-13	86	Bedroom RM-3	Window Frame	Wood	Good	Blue		Negative	0
12-Nov-13	87	Bedroom RM-3	Window Sill	Wood	Good	Blue		Negative	0
12-Nov-13	88	Bedroom RM-3	Window sash	Wood	Good	Blue		Negative	0
12-Nov-13	89	Bedroom RM-3	Door	Wood	Good	Blue		Negative	0
12-Nov-13	90	Bedroom RM-3	Door Jamb	Wood	Good	Blue		Negative	0
12-Nov-13	91	Bedroom RM-3	Door Frame	Wood	Good	Blue		Negative	0
12-Nov-13	92	Entrance Door	Door	Wood	Good	Green		Negative	0
12-Nov-13	93	Entrance Door	Door Jamb	Wood	Good	Green		Negative	0
12-Nov-13	94	Entrance Door	Door Frame	Wood	Good	Green		Negative	0
12-Nov-13	95	Bathroom	North Wall	Drywall	Good	Beige		Negative	0
12-Nov-13	96	Bathroom	West Wall	Drywall	Good	Beige		Negative	0
12-Nov-13	97	Bathroom	South Wall	Drywall	Good	Beige		Negative	0
12-Nov-13	98	Bathroom	East Wall	Drywall	Good	Beige		Negative	0
12-Nov-13	99	Bathroom	Door	Wood	Good	Blue		Negative	0
12-Nov-13	100	Bathroom	Door Jamb	Wood	Good	Blue		Negative	0
12-Nov-13	101	Bathroom	Door Frame	Wood	Good	Blue		Negative	0
12-Nov-13	102	Living /Kitchen	North Wall	Drywall	Good	Beige		Negative	0
12-Nov-13	103	Living /Kitchen	East Wall	Drywall	Good	Beige		Negative	0
12-Nov-13	104	Living /Kitchen	South Wall	Drywall	Good	Beige		Negative	0
12-Nov-13	105	Living /Kitchen	West Wall	Drywall	Good	Beige		Negative	0
12-Nov-13	106	Living /Kitchen	Window Frame	Wood	Good	Blue		Negative	0
12-Nov-13	107	Living /Kitchen	Window sill	Wood	Good	Blue		Negative	0
12-Nov-13	108	Living /Kitchen	Window sash	Wood	Good	Red		Negative	0
<b>12-Nov-13</b>	<b>109</b>	<b>Calibration</b>	<b>Red Film</b>	<b>Metal</b>	<b>Good</b>	<b>Red</b>		<b>Positive</b>	<b>1.05</b>



**TABLE 1**  
**XRF Lead-Based Paint Test Results**  
**1108 Barnegat Avenue, Unit # 2**  
**Seaside Heights, NJ**  
**SRP0037053**

<b>Date</b>	<b>Reading</b>	<b>Room</b>	<b>Component</b>	<b>Substrate</b>	<b>Paint Condition</b>	<b>Paint Color</b>	<b>Friction, Impact, or Teeth Marked Surface F/I/TM</b>	<b>Result</b>	<b>Lead Content (mg/cm<sup>2</sup>)</b>
12-Nov-13	110	Calibration	Red Film	Metal	Good	Red		Positive	1.05
12-Nov-13	111	Calibration	Red Film	Metal	Good	Red		Positive	1.08



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**TABLE 2  
XRF Direct Reading Results**



**Table 2**  
**XRF Direct Reading Results**  
**1108 Barnegat Avenue, Unit # 2**  
**Seaside Heights, NJ**  
**SRP0037053**

Date	Time	Reading	Mode	LiveTime	Pass Fail Standard	Pb	Pb +/-
12-Nov-13	15:13:18	56	Standardization	48.52	PASS		
<b>12-Nov-13</b>	<b>15:14:38</b>	<b>57</b>	<b>Lead Paint Fixed-Time</b>	<b>23.14</b>	<b>Positive</b>	<b>1.05</b>	<b>0.04</b>
<b>12-Nov-13</b>	<b>15:15:47</b>	<b>58</b>	<b>Lead Paint Fixed-Time</b>	<b>22.83</b>	<b>Positive</b>	<b>1.08</b>	<b>0.04</b>
<b>12-Nov-13</b>	<b>15:16:29</b>	<b>59</b>	<b>Lead Paint Fixed-Time</b>	<b>23</b>	<b>Positive</b>	<b>1.05</b>	<b>0.04</b>
12-Nov-13	15:17:43	60	Lead Paint Fixed-Time	23.55	Negative	0	0
12-Nov-13	15:18:24	61	Lead Paint Fixed-Time	24.51	Negative	0	0
12-Nov-13	15:19:06	62	Lead Paint Fixed-Time	24.52	Negative	0	0
12-Nov-13	15:19:48	63	Lead Paint Fixed-Time	24.63	Negative	0	0
12-Nov-13	15:20:28	64	Lead Paint Fixed-Time	23.13	Negative	0	0
12-Nov-13	15:21:09	65	Lead Paint Fixed-Time	23.42	Negative	0	0
12-Nov-13	15:21:50	66	Lead Paint Fixed-Time	22.91	Negative	0	0
12-Nov-13	15:22:55	67	Lead Paint Fixed-Time	23.12	Negative	0	0
12-Nov-13	15:23:36	68	Lead Paint Fixed-Time	23.91	Negative	0	0
12-Nov-13	15:24:17	69	Lead Paint Fixed-Time	23.67	Negative	0	0
12-Nov-13	15:25:02	70	Lead Paint Fixed-Time	23.07	Negative	0	0
12-Nov-13	15:25:43	71	Lead Paint Fixed-Time	24.27	Negative	0	0
12-Nov-13	15:27:20	72	Lead Paint Fixed-Time	24.21	Negative	0	0
12-Nov-13	15:28:01	73	Lead Paint Fixed-Time	24.34	Negative	0	0
12-Nov-13	15:28:42	74	Lead Paint Fixed-Time	24.45	Negative	0	0
12-Nov-13	15:29:23	75	Lead Paint Fixed-Time	24.54	Negative	0	0
12-Nov-13	15:30:04	76	Lead Paint Fixed-Time	23.04	Negative	0.01	0.02
12-Nov-13	15:30:45	77	Lead Paint Fixed-Time	22.95	Negative	0	0
12-Nov-13	15:31:27	78	Lead Paint Fixed-Time	22.91	Negative	0	0
12-Nov-13	15:32:08	79	Lead Paint Fixed-Time	23.12	Negative	0	0
12-Nov-13	15:32:50	80	Lead Paint Fixed-Time	24.1	Negative	0	0
12-Nov-13	15:33:32	81	Lead Paint Fixed-Time	23.98	Negative	0	0
12-Nov-13	15:35:16	82	Lead Paint Fixed-Time	24.48	Negative	0	0
12-Nov-13	15:35:58	83	Lead Paint Fixed-Time	24.71	Negative	0	0
12-Nov-13	15:36:40	84	Lead Paint Fixed-Time	24.15	Negative	0	0
12-Nov-13	15:37:21	85	Lead Paint Fixed-Time	24.5	Negative	0	0
12-Nov-13	15:38:02	86	Lead Paint Fixed-Time	23.16	Negative	0	0
12-Nov-13	15:38:43	87	Lead Paint Fixed-Time	22.64	Negative	0	0
12-Nov-13	15:39:25	88	Lead Paint Fixed-Time	21.66	Negative	0	0
12-Nov-13	15:40:25	89	Lead Paint Fixed-Time	22.06	Negative	0	0
12-Nov-13	15:41:05	90	Lead Paint Fixed-Time	23.03	Negative	0	0
12-Nov-13	15:41:43	91	Lead Paint Fixed-Time	23.05	Negative	0	0
12-Nov-13	15:42:27	92	Lead Paint Fixed-Time	24.01	Negative	0	0
12-Nov-13	15:43:08	93	Lead Paint Fixed-Time	22.8	Negative	0	0
12-Nov-13	15:43:47	94	Lead Paint Fixed-Time	22.39	Negative	0	0
12-Nov-13	15:45:11	95	Lead Paint Fixed-Time	24.39	Negative	0	0
12-Nov-13	15:45:53	96	Lead Paint Fixed-Time	24.24	Negative	0	0
12-Nov-13	15:46:35	97	Lead Paint Fixed-Time	24.35	Negative	0	0



**Table 2**  
**XRF Direct Reading Results**  
**1108 Barnegat Avenue, Unit # 2**  
**Seaside Heights, NJ**  
**SRP0037053**

Date	Time	Reading	Mode	LiveTime	Pass Fail Standard	Pb	Pb +/-
12-Nov-13	15:47:16	98	Lead Paint Fixed-Time	24.2	Negative	0	0
12-Nov-13	15:48:13	99	Lead Paint Fixed-Time	22.91	Negative	0	0
12-Nov-13	15:48:54	100	Lead Paint Fixed-Time	22.98	Negative	0	0
12-Nov-13	15:49:33	101	Lead Paint Fixed-Time	22.38	Negative	0	0
12-Nov-13	15:50:33	102	Lead Paint Fixed-Time	24.46	Negative	0	0
12-Nov-13	15:51:14	103	Lead Paint Fixed-Time	24.54	Negative	0	0
12-Nov-13	15:51:58	104	Lead Paint Fixed-Time	24.31	Negative	0	0
12-Nov-13	15:52:39	105	Lead Paint Fixed-Time	24.57	Negative	0	0
12-Nov-13	15:53:22	106	Lead Paint Fixed-Time	22.38	Negative	0	0
12-Nov-13	15:54:04	107	Lead Paint Fixed-Time	22.87	Negative	0	0
12-Nov-13	15:54:44	108	Lead Paint Fixed-Time	22.57	Negative	0	0
<b>12-Nov-13</b>	<b>15:55:49</b>	<b>109</b>	<b>Lead Paint Fixed-Time</b>	<b>23.15</b>	<b>Positive</b>	<b>1.05</b>	<b>0.04</b>
<b>12-Nov-13</b>	<b>15:56:30</b>	<b>110</b>	<b>Lead Paint Fixed-Time</b>	<b>22.65</b>	<b>Positive</b>	<b>1.05</b>	<b>0.04</b>
<b>12-Nov-13</b>	<b>15:57:11</b>	<b>111</b>	<b>Lead Paint Fixed-Time</b>	<b>22.86</b>	<b>Positive</b>	<b>1.08</b>	<b>0.04</b>





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SEASIDE HEIGHTS, NEW JERSEY  
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**TABLE 3  
Lead Dust Wipe Sample Results**



**TABLE 3**  
**LBP Dust Wipe Sample Test Results**  
**1108 Barnegat Avenue, Unit # 2**  
**Seaside Heights, NJ**  
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<b>Sample ID</b>	<b>Date</b>	<b>Room</b>	<b>Location</b>	<b>Lead Dust Concentration indicative of Lead Hazard (<math>\mu\text{g}/\text{ft}^2</math>)</b>	<b>Wipe Sample Result (<math>\mu\text{g}/\text{ft}^2</math>)</b>
BA-01	11/12/2013	Front entrance door	Floor	40	<10
BA-02	11/12/2013	Bathroom Floor	Floor	40	<10
BA-03	11/12/2013	Kitchen Floor	Floor	40	<10
BA-04	11/12/2013	Living room	Window Sill	250	<23
BA-06	11/12/2013	Bedroom # 1	Window Sill	250	<23
BA-07	11/12/2013	Bedroom # 2	Window Sill	250	24
PB-08	11/12/2013	Living room	Floor	40	<10
PB-09	11/12/2013	QC	QC	N/A	<10

**500=** Exceeds lead dust concentration



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SEASIDE HEIGHTS, NEW JERSEY  
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**APPENDIX A**

**Licenses**

**Lead Identification Permit**

*New Jersey Department of Health*

**FIROZ JAN**



**Permit No.: 026145**  
**ID No.: R00230**  
**Expires: 7/25/2015**

Authorization Signature *Joseph D. Eldridge*  
Joseph D. Eldridge, M.P.H., Director

**Inspector/Risk Assessor**

36948

*National Asbestos & Environmental Training Institute*

**CERTIFICATE OF COMPLETION**

*This is to certify that*

***Firoz Jan***

*Successfully completed the course entitled*

**1-Day New Jersey/EPA Model Lead Inspector/Risk Assessor Refresher on  
November 21, 2012**

*Examination Passed on November 21, 2012*

*Expiration Date November 21, 2014*

*Doris L. Adler*

*President, NAETI*

Language: English

3 CE Units

ABIH 1 CM POINT

3321 Doris Avenue, Building B, Ocean, NJ 07712

Phone (732) 531-5571

Fax (732) 531-5956

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



CHRIS CHRISTIE  
Governor

KIM GUADAGNO  
Lt. Governor

LOCATION  
101 SOUTH BROAD STREET  
TRENTON, NEW JERSEY 08618

STATE OF NEW JERSEY  
DEPARTMENT OF COMMUNITY AFFAIRS  
DIVISION OF CODES AND STANDARDS  
BUREAU OF CODE SERVICES  
LEAD HAZARD ABATEMENT

RICHARD E. CONSTABLE, III  
Acting Commissioner

MAILING ADDRESS  
PO BOX 816  
TRENTON, NJ 08625-0816

Certificate - Lead Evaluation Contractor

This is to certify that the Department of Community Affairs has

( ) CERTIFIED  
(XX) RECERTIFIED

PARS ENVIRONMENTAL  
500 HORIZON DRIVE  
SUITE 540  
ROBBINSVILLE, NJ 08691

To act as a Lead Evaluation Contractor on the following projects

Residential  
Public Buildings

Cert # 00416 E

Effective Date: MARCH 1, 2012

Date of Expiration: FEBRUARY 28, 2014

Certificate Type: 2 YEAR

Sincerely,

James L. Amici  
Supervisor of Certification  
Lead Hazard Abatement Unit





CHRIS CHRISTIE  
Governor

KIM GUADAGNO  
Lt. Governor

LOCATION  
101 SOUTH BROAD STREET  
TRENTON, NEW JERSEY 08618

STATE OF NEW JERSEY  
DEPARTMENT OF COMMUNITY AFFAIRS  
DIVISION OF CODES AND STANDARDS  
BUREAU OF CODE SERVICES  
LEAD HAZARD ABATEMENT

RICHARD E. CONSTABLE, III  
Commissioner

MAILING ADDRESS  
PO BOX 816  
TRENTON, NJ 08625-0816

Certificate - Lead Evaluation Contractor

This is to certify that the Department of Community Affairs has

( ) CERTIFIED  
(XX) RECERTIFIED

PARS ENVIRONMENTAL  
500 HORIZON DRIVE  
SUITE 540  
ROBBINSVILLE, NJ 08691

To act as a Lead Evaluation Contractor on the following projects

Residential  
Public Buildings

Cert # 00416 E

Effective Date: MARCH 1, 2014

Date of Expiration: FEBRUARY 29, 2016

Certificate Type: 2 YEAR

Sincerely,

James L. Amici  
Supervisor of Certification  
Lead Hazard Abatement Unit





**LEAD-BASED PAINT SURVEY REPORT AND  
RISK ASSESSMENT  
1108 BARNEGAT AVENUE, UNIT 2  
SEASIDE HEIGHTS, NEW JERSEY  
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**APPENDIX B  
Performance Characteristic Sheet**



## Performance Characteristic Sheet

**EFFECTIVE DATE:**      October 12, 2006

**EDITION NO.:** 1

**MANUFACTURER AND MODEL:**

Make:                    *Innov-X Systems, Inc.*  
 Models:                *LBP4000 with software version 1.4 and higher*  
 Source:                 *X-ray tube (no radioactive isotopes)*

### FIELD OPERATION GUIDANCE

**OPERATING PARAMETERS:**

Inspection mode, variable reading time.

**XRF CALIBRATION CHECK LIMITS:**

1.0 to 1.1 mg/cm<sup>2</sup> (inclusive)

**SUBSTRATE CORRECTION:**

Not applicable

**INCONCLUSIVE RANGE OR THRESHOLD:**

INSPECTION MODE READING DESCRIPTION	SUBSTRATE	INCONCLUSIVE RANGE (mg/cm <sup>2</sup> )
Results not corrected for substrate bias on any substrate	Brick	0.6 to 1.1
	Concrete	0.6 to 1.1
	Drywall	0.6 to 1.1
	Metal	0.6 to 1.1
	Plaster	0.6 to 1.1
	Wood	0.6 to 1.1

### BACKGROUND INFORMATION

**EVALUATION DATA SOURCE AND DATE:**

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted on 146 test locations, with two separate instruments, in December 2005.

### **OPERATING PARAMETERS:**

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

### **XRF CALIBRATION CHECK:**

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm<sup>2</sup> in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm<sup>2</sup> film).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

### **SUBSTRATE CORRECTION VALUE COMPUTATION:**

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm<sup>2</sup> for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm<sup>2</sup> at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm<sup>2</sup>. Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

For each substrate type (the 1.02 mg/cm<sup>2</sup> NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

$$\text{Correction value} = (1\text{st} + 2\text{nd} + 3\text{rd} + 4\text{th} + 5\text{th} + 6\text{th Reading}) / 6 - 1.02 \text{ mg/cm}^2$$

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

### **EVALUATING THE QUALITY OF XRF TESTING:**

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

Take one XRF reading on each of the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Calculate the average of the original XRF reading and the retest XRF reading for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF readings.

Compute the average of all ten re-test XRF readings.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

**TESTING TIMES:**

For the variable-time inspection paint test mode, the instrument continues to read until it has determined whether the result is positive or negative (with respect to the 1.0 mg/cm<sup>2</sup> Federal standard), with 95% confidence. The following table provides testing time information for this testing mode.

Testing Times Using Variable Reading Time Inspection Mode (Seconds)						
Substrate	All Data			Median for laboratory-measured lead levels (mg/cm <sup>2</sup> )		
	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile	Pb < 0.25	0.25 ≤ Pb < 1.0	1.0 ≤ Pb
Wood, Drywall	2.1	2.3	5.4	2.2	5.4	2.2
Metal	2.6	3.2	5.3	2.7	5.1	5.1
Brick, Concrete, Plaster	3.1	4.0	5.7	3.2	4.0	5.9

**CLASSIFICATION OF RESULTS:**

When an inconclusive range is specified on the *Performance Characteristic Sheet*, XRF results are classified as positive if they are greater than the upper boundary of the inconclusive range, negative if they are less than the lower boundary of the inconclusive range, or inconclusive if in between. The inconclusive range includes both its upper and lower bounds. If the instrument reads “> x mg/cm<sup>2</sup>”, the value “x” should be used for classification purposes, ignoring the “>”. For example, a reading reported as “>1.0 mg/cm<sup>2</sup>” is classified as 1.0 mg/cm<sup>2</sup>, or inconclusive. When the inconclusive range reported in this PCS is used to classify the readings obtained in the EPA/HUD evaluation, the following False Positive, False Negative and Inconclusive rates are obtained:

- FALSE POSITIVE RATE: 2.5% (2/80)
- FALSE NEGATIVE RATE: 1.9% (4/212)
- INCONCLUSIVE RATE: 16.4% (48/212)

**DOCUMENTATION:**

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. XRF Performance Characteristic Sheets were originally developed by the MRI under a grant from the U. S. Environmental Protection Agency and the U.S. Department of Housing and Urban Development. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

## Margaret Halasnik

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**From:** Juan Payan <juan.payan@olympusndt.com>  
**Sent:** Monday, August 12, 2013 12:58 PM  
**To:** Margaret Halasnik  
**Subject:** Performance Characteristics Sheet  
**Attachments:** Lead paint Hud sheet.pdf

Hi Margaret,

Please see the Performance Characteristics Sheet attached, and let me know if you need anything else. This sheet is valid for all Alpha models.

*Regards,*

*JC Payan  
Technical Support  
Olympus NDT - Analytical Instruments Division  
241 Riverview Ave  
Auburndale, MA 02466  
T: 781-419-3900  
F: 781-973-2200*



**LEAD-BASED PAINT SURVEY REPORT AND  
RISK ASSESSMENT  
1108 BARNEGAT AVENUE, UNIT 2  
SEASIDE HEIGHTS, NEW JERSEY  
SRP0037053**

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PARS

**APPENDIX C  
Lead Glossary**



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**“LEAD SPEAK” A BRIEF GLOSSARY**

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**COMMON LBP TERMS**

**LBP:** Any and all paint that contains at least 1 milligram of lead per square centimeter of surface area ( $1.0 \text{ mg/cm}^2$ ). This is infrequently expressed as 0.5% lead by weight and/or 5,000 parts per million lead concentrations by dry weight.

**LBP HAZARDS:** Housing conditions that cause human exposure to unsafe levels of lead from paint. These conditions include, but are not necessarily limited to: deteriorated LBP; friction, impact, or chewable surfaces; lead contaminated dust; or lead contaminated soil.

**PAINT:** Any and all paints, stains, varnishes, shellacs, epoxies, lacquers, polyurethanes, etc.

**HOUSE WALL IDENTIFICATION GUIDE:** The exterior wall that contains the front entry to the house is labeled as the A wall of the house. Proceeding clock-wise around the house label the remaining walls B, C, and D respectively. The interior room walls correspond to the exterior walls

**LEAD HAZARD EVALUATION METHODS**

**VISUAL EVALUATION:** A visual evaluation of interior and exterior paint and surfaces in an effort to try to identify specific conditions that contribute to LBP hazards. A certified risk assessor or a Housing Quality Standards inspector trained in visual assessments should perform these inspections.

**PAINT TESTING:** Testing of specific surfaces that are coated with paint, by XRF (x-ray fluorescence) or laboratory analysis, to determine the lead content of these surfaces, performed by a NJ certified Lead Inspector/Risk Assessor.

**RISK ASSESSMENT:** An on-site investigation to help determine the existence of LBP hazards. This can include paint testing, dust, and soil sampling, water sampling and a visual inspection. The risk assessment report identifies lead hazards and potential options for lead hazard control. A certified risk assessor must conduct the assessment.

**CLEARANCE EXAMINATION:** Clearance is performed after hazard reduction, rehabilitation, renovation, repair, modernization, or maintenance activities to determine if a unit is safe for occupancy. It involves a visual inspection, analysis of dust and soil samples, and preparation of a report. A certified risk assessor that is independent from the company or individual conducting the lead hazard control activities should conduct the clearance examination.

**X-RAY FLUORESCENCE ANALYZER (XRF):** This device, often called an XRF, is used to help identify levels of lead in paint without disturbing the painted surfaces themselves. The unit uses X-rays to measure the lead content in the paint on a per square centimeter basis.



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**“LEAD SPEAK” A BRIEF GLOSSARY**

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**LEAD POISONING: Environmental Intervention Blood Lead Level (EIBLL):** The level of lead in blood that requires intervention in a child under the age of seventy-two (72) months (6 years). This is typically defined as a blood lead level of 20  $\mu\text{g}/\text{dL}$  (micrograms per deciliter) of whole blood or above for a single test, or blood levels of 15-19 in two tests taken at least three months apart.

**KEY UNITS OF MEASUREMENT**

**$\mu\text{g}$  (Microgram):** A microgram is  $1/1000^{\text{th}}$  of a milligram. To put this into perspective, a penny weighs 2 grams. To get a microgram, you would need to divide the penny into 2 million pieces. A microgram is one of those two million pieces.

**$\mu\text{g}/\text{dL}$  (microgram per deciliter):** Used to measure the level of lead in children's and worker's blood to establish whether intervention is needed. A deciliter is a little less than a half a cup.

**$\mu\text{g}/\text{ft}^2$  (micrograms per square foot):** the unit used to express levels of lead in dust samples. All reports should report levels of lead in dust in  $\mu\text{g}/\text{ft}^2$ ,  $\text{mg}/\text{cm}^2$  (milligrams per centimeter square): used to report levels of lead in paint thru XRF testing.

**PPM (parts per million):** Typically used to express the concentrations of lead in soil. Can also be used to express the amount of lead in a surface coating on a mass concentration basis. This measurement can also be shown as:  $\mu\text{g}/\text{gram}$  or  $\text{mg}/\text{kg}$  (soil) or  $\text{mg}/\text{l}$  (aqueous).

**PPB (parts per billion):** Typically used to express the amount of lead found in drinking water. This measurement is also sometimes expressed as:  $\mu\text{g}/\text{l}$ .

**EPA/HUD PUBLISHED LBP STANDARDS****Dust-thresholds for Lead Contamination**

- Floors: less than ( $<$ )  $40 \mu\text{g}/\text{ft}^2$
- Interior Window Sills:  $<250 \mu\text{g}/\text{ft}^2$
- Window Troughs:  $<400 \mu\text{g}/\text{ft}^2$

**Soil-thresholds for Lead Contamination**

- Play areas used by children 6 and under:  $<400 \mu\text{g}/\text{gram}$  or 400 PPM
- Other areas:  $<1200 \mu\text{g}/\text{gram}$  or 1200 PPM
- Threshold for abatement:  $<5000 \mu\text{g}/\text{gram}$  or 5000 PPM



**“LEAD SPEAK” A BRIEF GLOSSARY**

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NATIONAL CENTER FOR HEALTHY HOUSING: <http://www.leadshousing.org/>

NATIONAL LEAD INFORMATION CENTER AND CLEARINGHOUSE:  
1-800-424 LEAD, Fax: 301-585-7976 [www.epa.gov/lead/nlic.htm](http://www.epa.gov/lead/nlic.htm)

NATIONAL LEAD ASSESSMENT AND ABATEMENT COUNCIL:  
1-800-590-6522 Fax: 301-924-0265 <http://www.nlaac.org>

HUD's OFFICE OF HEALTH HOMES AND LEAD HAZARD CONTROL:  
<http://www.hud.gov/offices/lead>

THE ALLIANCE TO END CHILDHOOD LEAD POISONING:  
<http://www.aeclp.org>

THE ENVIRONMENTAL PROTECTION AGENCY LEAD PROGRAMS:  
<http://www.epa.gov/opptintr/lead> Voice: 1-202-260-2090

NEW JERSEY DEPARTMENT OF HEALTH, INDOOR ENVIRONMENTS PROGRAM  
<http://www.state.nj.us/health/iep/lead.shtml>

**ADDITIONAL INFORMATION:**

Lists of recalled products containing lead: [www.safetyalerts.com](http://www.safetyalerts.com). The Lead listing for info On lead-safe service providers and EPA accredited laboratories throughout the United States: <http://www.leadlisting.org>



**LEAD-BASED PAINT SURVEY REPORT AND  
RISK ASSESSMENT  
1108 BARNEGAT AVENUE, UNIT 2  
SEASIDE HEIGHTS, NEW JERSEY  
SRP0037053**

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PARS

**APPENDIX D  
EMSL Laboratories Lead Report**



# EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>

[cinnaminsonleadlab@emsl.com](mailto:cinnaminsonleadlab@emsl.com)

EMSL Order: 201311911

CustomerID: PARS51

CustomerPO: 1101

ProjectID: GILBANE

Attn: **Firoz Jan**  
**PARS Environmental**  
**500 Horizon Drive**  
**Suite 540**  
**Robbinsville, NJ 08691**

Phone: (609) 890-7277  
Fax: (609) 890-9116  
Received: 11/12/13 6:11 PM  
Collected:

Project: **Gilbane Unit #2 / 1108 Barnegat Ave Seaside Heights, NJ**

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B\*/7000B)

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
BA-01 Site: Front Entrance Door/Floor	0001	11/13/2013	11/13/2013	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
BA-02 Site: Bathroom/Floor	0002	11/13/2013	11/13/2013	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
BA-03 Site: Kitchen Floor	0003	11/13/2013	11/13/2013	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
BA-04 Site: Living Room/Window Sill	0004	11/13/2013	11/13/2013	64 in <sup>2</sup>	<23 µg/ft <sup>2</sup>
BA-05 Site: Common Area/Floor	0005	11/13/2013	11/13/2013	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
BA-06 Site: Bedroom #1 Window Sill	0006	11/13/2013	11/13/2013	64 in <sup>2</sup>	<23 µg/ft <sup>2</sup>
BA-07 Site: Bedroom #2 Window Sill	0007	11/13/2013	11/13/2013	64 in <sup>2</sup>	24 µg/ft <sup>2</sup>
BA-08 Site: Living Room Floor	0008	11/13/2013	11/13/2013	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
BA-09 Site: Blank	0009	11/13/2013	11/13/2013	n/a	<10 µg/wipe

Julie Smith - Laboratory Director  
NJ-NELAP Accredited:03036  
or other approved signatory

Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. QC data associated with this sample set is within acceptable limits, unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. \* slight modifications to methods applied. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 11/13/2013 17:28:02



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

# Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only): 20311911

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

Unit # 2  
MILBANE  
1108 BARNEGAT AVE - SEASIDE HEIGHTS - NJ

Company: PARS Environmental Inc.		EMSL-Bill to: <input type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 500 HORIZON DR.		Third Party Billing requires written authorization from third party	
City: Robbinsville	State/Province: NJ	Zip/Postal Code:	Country:
Report To (Name): FIORI Jan		Telephone #:	
Email Address: FJan@parsenviro.com		Fax #:	Purchase Order:
Project Name/Number: 1108 BARNEGAT AVE		Please Provide Results: <input type="checkbox"/> Fax <input type="checkbox"/> Email	
U.S. State Samples Taken: Seaside Heights		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options\* - Please Check

3 Hour   
  6 Hour   
  24 Hour   
  48 Hour   
  72 Hour   
  96 Hour   
  1 Week   
  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input type="checkbox"/> ASTM non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: FIORI Jan      Signature of Sampler: *[Signature]*

Sample #	Location	Volume/Area	Date/Time Sampled

Client Sample #'s: -      Total # of Samples: 9

Relinquished (Client): *[Signature]*      Date: 11/12/13      Time:      *[Signature]*

Received (Lab): *[Signature]*      Date: 11/12/13      Time: 6:10 PM

Comments: Rec'd (only) 11/12/13

9



## LEAD HAZARD EVALUATION NOTICE

Address: 1108 Barnegat Avenue, Unit #3, Seaside Heights, New Jersey 0875

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Evaluation Completed (circle one): Paint Inspection      Paint Testing

Risk Assessment

Date: 10/21/13

### Summary of Results:

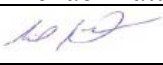
X No lead-based paint or lead-based paint hazards were found.

       Lead-based paint and/or lead-based paint hazards were found. See attachment for details

Contact person for more information about the risk evaluation:

Printed name: Feliks Kiselyuk  
Signature: \_\_\_\_\_  
Date: 10/31/13  
Organization: Sky Environmental Services, Inc.  
Street: 140 Boulevard  
City & State: Mountain Lakes, New Jersey  
Zip: 07046  
Phone #: 201-679-2250

Person who prepared this notice:

Printed name: Michael Rattacasa  
Signature:   
Date: 10/30/13  
Organization: Creative Environment Solutions Corp.  
Street: 39 West 37<sup>th</sup> Street, 14<sup>th</sup> Fl.  
City & State: New York, New York,  
Zip: 10018  
Phone #: 212-290-6323

<b>Contaminated Soil</b>		
<b>Area</b>	<b>mg/g (ppm)</b>	<b>Location</b>
<input checked="" type="checkbox"/> None		
<input type="checkbox"/> Perimeter	_____ mg/g (ppm)	
<input type="checkbox"/> Play Area	_____ mg/g (ppm)	
<input type="checkbox"/> Other	_____ mg/g (ppm)	

<b>Contaminated Dust</b>		
<b>Area</b>	<b>µg/SF</b>	<b>Location</b>
<input checked="" type="checkbox"/> None		
<input type="checkbox"/> Windowsill	_____ µg/SF	
<input type="checkbox"/> Floor	_____ µg/SF	
<input type="checkbox"/> Other	_____ µg/SF	
<input type="checkbox"/> Other	_____ µg/SF	

<b>Other Hazards</b>				
<b><u>Component*</u></b>	<b><u>Location</u></b>	<b><u>Condition</u></b> (good, fair, poor)	<b><u>Friction or</u></b> <b><u>Impact Surface?</u></b>	<b><u>Lead Content</u></b> (if known)
1.				_____ mg/cm <sup>2</sup> (ppm)
2.				_____ mg/cm <sup>2</sup> (ppm)
3.				_____ mg/cm <sup>2</sup> (ppm)
4.				_____ mg/cm <sup>2</sup> (ppm)
5.				_____ mg/cm <sup>2</sup> (ppm)
6.				_____ mg/cm <sup>2</sup> (ppm)
7.				_____ mg/cm <sup>2</sup> (ppm)
8.				_____ mg/cm <sup>2</sup> (ppm)
9.				_____ mg/cm <sup>2</sup> (ppm)
10.				_____ mg/cm <sup>2</sup> (ppm)
11.				_____ mg/cm <sup>2</sup> (ppm)
12.				_____ mg/cm <sup>2</sup> (ppm)
13.				_____ mg/cm <sup>2</sup> (ppm)
14.				_____ mg/cm <sup>2</sup> (ppm)

\* Components include but are not limited to (interior and exterior) windows, doors, trim, fences, porches, walls and floors.



## **Creative Environment Solutions Corp.**

39 West 37<sup>th</sup> Street, 14<sup>th</sup> Floor, New York, NY 10018

Phone: 212.290.6323 Fax: 212.290.6325

LICENSED & APPROVED by NYS DOH/DOL/DOS, NYC DOB/DEP, FDNY, PIE

### **LIMITED LEAD-BASED PAINT RISK ASSESSMENT REPORT**

Site Location:

**1108 Barnegat Avenue  
Unit #3  
Seaside Heights, New Jersey 08751  
SRP0037053**

Prepared for:

**Gilbane Building Company  
New Jersey LLRP Program  
3150 Brunswick Pike, Suite 300  
Lawrenceville, New Jersey 08648**

Prepared by:

**Creative Environment Solutions Corp.**  
39 West 37<sup>th</sup> Street, 14<sup>th</sup> Floor  
New York, New York 10018

October 31, 2013



**EXECUTIVE SUMMARY**

Creative Environment Solutions Corp. (CES) was retained by Gilbane Building Company; located at, 3150 Brunswick Pike, Suite 300, Lawrenceville, New Jersey 08648, to perform a limited Risk Assessment for Lead-Based Paint (LBP) at the Private Residence; located at, 1108 Barnegat Avenue, Unit #3, Seaside Heights, New Jersey 08751. The inspection was conducted in conjunction with the residence's participation in the New Jersey Landlord Repair Program (LLRP).

CES' New Jersey Department of Health and Senior Services certified Lead Paint Inspector/Risk Assessor, Feliks Kiselyuk, performed a LBP Risk Assessment at the above-referenced location. The inspection was conducted to identify the presence of any LBP and/or lead hazards located within the aforementioned interior and/or exterior of the residence. Mr. Kiselyuk utilized an [Innov-X System Alpha Series X-Ray Fluorescence Spectrometer] (XRF) to determine the presence or absence of lead in paint.

The analytical results from this Assessment effort identified the following lead-based paint (LBP) and Lead hazards, as defined by the United States Environmental Protection Agency (USEPA) and/or the department of Housing and Urban Development (HUD) standards:

Interior LBP

- No LBP was identified within the interior.

Exterior LBP

- No LBP was identified within the exterior.

Existing Lead-Based Paint Hazards and Potential Lead Hazards

There were no areas coated with LBP that is deteriorated and currently present existing lead-based paint hazards. All component substrates are wood.

No dust hazards were identified.

No soil lead hazards were identified.

There were no areas coated with LBP that is intact and that do not currently present lead hazards. However, the upcoming renovation plans include work inside the house and scraping and repainting the exterior. If these renovations occur, lead-safe work practices will need to be implemented during the project to ensure that lead hazards are not created.

Future renovations plans were not provided to CES at the time of the inspection.

Please refer to the enclosed for further inspection details, XRF results and/or laboratory analytical results.

Please refer to Table I for a full summary of inspection results.

**IDENTIFYING INFORMATION**

A Lead Hazard Risk Assessment and Limited LBP Testing (Assessment) was conducted at 1108 Barnegat Avenue, Unit #3, Seaside Heights, New Jersey 08751 on October 21, 2013. The Assessment was conducted by Feliks Kiselyuk, (025263). The purpose of the Assessment was to identify the presence of lead hazards on and/or in a limited number of surfaces inside and outside the residence, as well as to identify the presence of deteriorated lead-based paint (LBP) and LBP that may be disturbed during planned renovation and/or restoration activities.

**PROPERTY RENOVATION AND REPAIR HISTORY**

Historic renovation and repair history for the subject property were not provided to CES at the time of the assessment.

## PREVIOUS SAMPLING AND TESTING

Records regarding previous lead sampling and/or testing at the subject property were not provided to CES at the time of the assessment.

## IDENTIFIED LEAD HAZARDS

The subject property was impacted by Hurricane Sandy; therefore, all materials coated with LBP have the potential to be impacted by future renovation and/or restoration activities.

### Existing Lead Hazards

The following areas are coated with Lead-Based Paint (LBP) that is *deteriorated* and currently present existing lead-based paint hazards.

No areas were identified.

### Potential Lead Hazards

The following areas are coated with LBP that is intact and that do not currently present lead hazards. However, the upcoming renovation plans include work inside the house and scraping and repainting the exterior. If these renovations occur, lead-safe work practices will need to be implemented during the project to ensure that lead hazards are not created.

No areas were identified.

Please refer to the enclosed for further inspection details, XRF results and/or laboratory analytical results.

## PAINT SAMPLING AND TESTING

Limited LBP Testing, conforming with HUD Guidelines 24 CFR 35 Section 35.930 (c), (d) was accomplished at this residence on surfaces found to have deteriorated paint and/or where it was indicated to the Assessor that planned renovation would occur. No paint chip samples were taken. On October 21, 2013, a total of twenty seven (27) tests (assays) were taken at a limited number of specified surfaces on the inside and outside of the residence using an XRF analyzer. Deteriorated paint and areas that were specified to be disturbed during the planned renovation project were tested. Lead concentrations that meet or exceed the HUD published levels identified as being potentially dangerous (e. g., greater than or equal to 1.1 milligrams per centimeter square [ $> 1.1 \text{ mg/cm}^2$ ]) were not encountered.

It should be noted that lead concentrations (in paint) that are less than the levels that identify a surface coating as LBP still have the potential of causing lead poisoning. Should these or any potential LBP painted components and/or surfaces be disturbed in any manner that generates dust, extreme care must be taken to limit its spread. It should be assumed that any and all painted surfaces, components, or surfaces not requested to be tested as part of this investigation, or any previous investigations, are coated with LBP, and that renovation or repair activities in these areas dictate the use of safe work practices that limit dust generation and area contamination.

## INTERIOR DUST SAMPLING

A total of five (5) single surface dust wipe samples were collected in an effort to help to determine the levels of lead-containing dust on the interior windowsills and floors. These samples were collected from areas most likely to be lead contaminated if lead-in-dust is present. These samples were collected in accordance with the requirements of ASTM Standard E-1728, Standard Practice for Field Collection of Settled Dust Samples Using Wipe Sampling Methods for Lead Determination by Atomic Spectrometry Techniques. USEPA and HUD regulations define the following as dangerous levels for lead dust in residences: floors –  $\geq 40 \text{ } \mu\text{g}/\text{ft}^2$  (micrograms per square foot); interior windowsills –  $\geq 250 \text{ } \mu\text{g}/\text{ft}^2$ ; and, interior window troughs –  $\geq 400 \text{ } \mu\text{g}/\text{ft}^2$ . Please refer to Appendix B – Laboratory Analytical Results for the detailed information regarding dust sampling results. According to the laboratory analytical results, no samples collected exhibited lead concentrations in excess of the aforementioned regulatory thresholds.

## SOIL SAMPLING AND LABORATORY INFORMATION

Three (3) composite soil samples were collected at this residence in accordance with the requirements of ASTM Standard E-1727, Standard Practice for Field Collection of Soil Samples for Lead Determination by Atomic Spectrometry Techniques. A Composite sample is a sample containing soil from a stated number of locations mixed together to form a Composite sample. The first sample consisted of soil from four locations on the west side at 1' on center (O.C.). The second sample was collected from four separate locations on the north side at 1' O.C. The third sample was collected from four separate locations on the south side at 1' O.C. The samples were collected from bare soil areas only. The analytical results did not identify lead concentrations at or above the levels that the USEPA and HUD identifies as dangerous. Please refer to Appendix B – Laboratory Analytical Results for the detailed information regarding soil sampling results.

## ONGOING MONITORING

Ongoing monitoring is necessary in all dwellings in which LBP is known or assumed to be present. At these dwellings, the very real potential exists for LBP hazards to develop. Hazards can develop by means such as, but not limited to: the failure of lead hazard control measures; previously intact LBP becoming deteriorated; dangerous levels of lead-in-dust (dust lead) re-accumulating through friction, impact, and deterioration of paint; or, through the introduction of contaminated exterior dust and soil into the interior of the structure. Ongoing monitoring typically includes two different activities: re-evaluation and annual visual surveys. A re-evaluation is a risk assessment that includes limited soil and dust sampling and a visual evaluation of paint films and any existing lead hazard controls. Re-evaluations are supplemented with visual surveys by the Owner, which should be conducted at least once a year. Owner conducted visual surveys do not replace the need for professional re-evaluations. Visual surveys should confirm that all Paint with known or suspected LBP are not deteriorating, that lead hazard control methods have not failed, and that structural problems do not threaten the integrity of any remaining known, assumed or suspected LBP. The partial table below is taken from **Table 6.1, Standard Re-evaluation Schedules**, as found in the HUD publication entitled; **Guidelines for the Evaluation and Control of LBP Hazards in Housing**, dated June 1995, with September 1997 revisions. It is intended as a guideline for the Owner to assess the condition of areas where hazard control activities occurred.

Factors at this residence require the use of Ongoing Monitoring Schedule item number one (1), to dictate monitoring protocol. Visual surveys by the Owner should occur on at least a yearly basis for all painted surfaces. All surfaces that have undergone the hazard control strategy of Interim Controls, Encapsulation or Enclosure should also be checked during this survey. If components are replaced (windows), no re-evaluation or visual survey would be needed, since the LBP would have been removed with the old windows. Please refer to your community development agency, housing authority, or other applicable agency for additional local/regional regulations and guidelines governing re-evaluation activities.

### Standard Re-evaluation Schedule

Schedule	Original Evaluation Results	Action taken	Re-evaluation Frequency & Duration	Visual Survey Schedule
1	Combination risk assessment/inspection finds no leaded dust or soil and no lead-based paint.	None	None.	None

## DISCLOSURE REGULATIONS

A copy of this complete report must be made available to new lessees (tenants) and/or must be provided to purchasers of this property under Federal law before they become obligated under any future lease or sales contract transactions (Section 1018 of Title X – found in 24 CFR Part 35 and 40 CFR Part 745), until the demolition of this property. Landlords (Lessors) and/or sellers are also required to distribute an educational pamphlet developed by the EPA entitled “Protect Your Family From Lead in Your Home” and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from LBP hazards.

## **FUTURE RENOVATION AND/OR REHABILITATION PRECAUTIONS**

It should be noted that during this Assessment, a limited number of areas were tested for the presence of LBP. All LBP, dust, and soil hazards that were identified are addressed in this report. However, LBP, dust lead hazards, and/or soil lead hazards may be present at other locations of the property. Additional paint testing should precede any future remodeling activities that occur at any untested areas. Additional dust and/or soil sample collection and analysis should follow any hazard control activity, repair, remodeling, or renovation effort, and any other work efforts that may in any way disturb LBP and/or any lead containing materials. These Assessment activities will help the Client and owner to ensure the health and safety of the occupants and the neighborhood. Details concerning lead safe work techniques and approved hazard control methods can be found in the HUD publication entitled: "Guidelines for the Evaluation and Control of LBP Hazards in Housing" (June 1995 & 1997 Revision).

## **LEAD HAZARD CONTROL OPTIONS AND COST ESTIMATES**

Lead-safe work practices and worker/occupant protection practices complying with current EPA, HUD and OSHA standards will be necessary to safely complete all work involving the disturbance of LBP coated surfaces and components. In addition, any work considered Lead hazard control will enlist the use of interim control (temporary) methods and/or abatement (permanent) methods. It should be noted that all lead hazard control activities have the potential of creating additional hazards, or even creating hazards that were not present before. All persons and/or firms performing lead hazard control activities must have received proper training in Lead-Safe Work Practices and/or Lead Abatement. Details for the listed lead hazard control options and issues surrounding occupant/worker protection practices can be found in the publication entitled: Guidelines for the Evaluation and Control of LBP Hazards in Housing (June 1995 & 1997 Revision) published by the HUD, as well as in the Occupational Safety and Health Administration (OSHA) regulations found in 29 CFR, Part 1926.62, known as the OSHA Lead Exposure in Construction Industry Standard.

The associated cost estimates, unless otherwise noted, include the labor and materials to accomplish the stated activity and most additional funds typically found to be necessary to complete worker protection, site containment, and cleanup procedures. These are approximate estimates only and due to a variety of potential factors, may not accurately reflect all local cost factors. A precise estimate must be obtained from a certified LBP abatement contractor or a contractor trained in lead safe work practices. Properly trained and/or licensed persons, as well as properly licensed firms (as mandated) should accomplish all abatement/interim control activities conducted at this residence.

Interim controls, as defined by HUD, means a set of measures designed to temporarily reduce human exposure to LBP hazards and/or lead containing materials. These activities include, but are not limited to: component and/or substrate repairs; paint and varnish repairs; the removal of dust-lead hazards; renovation; remodeling; maintenance; temporary containment; placement of seed, sod or other forms of vegetation over bare soil areas; the placement of at least 6 inches of an appropriate mulch material over an impervious material, laid on top of bare soil areas; the tilling of bare soil areas; extensive and specialized cleaning; and, ongoing LBP maintenance activities.

Abatement, as defined by HUD, means any set of measures designed to permanently eliminate LBP and/or LBP hazards. The product manufacturer and/or contractor must warrant abatement methods to last a minimum of twenty (20) years, or these methods must have a design life of at least twenty (20) years. These activities include, but are not necessarily limited to: the removal of LBP from substrates and components; the replacement of components or fixtures with lead containing materials and/or lead containing paint; the permanent enclosure of LBP with construction materials; the encapsulation of LBP with approved products; the removal or permanent covering (concrete or asphalt) of soil-lead hazards; and, extensive and specialized cleaning activities.

## **Special Cleaning Preceding Lead Hazard Control Activities**

Before any lead hazard control activities begin, the structure and site must be inspected and pre-cleaned following HUD specified cleaning protocols, as detailed in the Guidelines for the Evaluation and Control of LBP Hazards in Housing (June 1995 & 1997 Revision), published by the U.S. Department of Housing and Urban Development. Some of the required steps include removing large debris and paint chips followed by HEPA vacuuming of all horizontal surfaces (floors, windowsills, troughs, etc.). The cleaning protocols described in this publication can assist the contractor in doing a preliminary cleaning and improving the chances of passing clearance inspections after remediation.

**LIMITATIONS AND CONDITIONS**

CES has performed the tasks set forth above in a thorough and professional manner consistent with industry standards. CES cannot guarantee and does not warrant that this limited assessment has revealed all adverse environmental conditions affecting the site. Nor can CES warrant that the assessment requested will satisfy the dictates of, or provide a legal defense in connection with, environmental laws or regulations. The observations and findings were representative of the conditions from the site on the date of inspection. Often materials are located in confined or inaccessible locations with little or no visible manifestation of their presence. These materials may be found in various areas under existing flooring materials, above ceilings, behind walls, materials within fixtures, electrical wire casing, or buried pipes and wires. Due to the potential for hidden materials to be present, it may not be possible to determine if all suspect building materials have been identified, located, and subsequently tested. Destructive measures to access these and other potentially hidden materials were not employed by CES as part of this project. However, CES does warrant that its investigations and methodology reflect our best efforts based upon prevailing standard of care in the environmental industry.

The information contained in this report was prepared based upon specific parameters and regulations in force at the time of this report. The information herein is only for the specific use of the client and CES. CES accepts no responsibility for the use, interpretation, or reliance by other parties on the information contained herein, unless written authorization has been obtained from CES.



Feliks Kiselyuk  
Certified Lead Paint Inspector/Risk Assessor

10/31/2013  
Date



Michael J. Rattacasa  
Operations Director

10/31/2013  
Date

# **APPENDIX A**

## XRF Testing Results Table

**1108 Barnegat Avenue, Unit 3  
Seaside Heights, New Jersey 08751**

Reading #	Date	Location	Room ID	Wall/ Elevation	Component	Substrate	Condition	Pb	Pb +/-	Pass Fail Standard
1	10/21/2013	Unit 3	Room 1	Wall 1	Door Frame	Wood	Good	0	0	Negative
2	10/21/2013	Unit 3	Room 1	Wall 1	Door	Metal	Good	0	0	Negative
3	10/21/2013	Unit 3	Room 1	Wall 1	Wall	Plaster/sheetrock	Poor	0.01	0.02	Negative
4	10/21/2013	Unit 3	Room 1	Wall 1	Ceiling	Plaster/sheetrock	Poor	0	0	Negative
5	10/21/2013	Unit 3	Room 1	Wall 2	Closet Wall	Plaster/sheetrock	Poor	0	0	Negative
6	10/21/2013	Unit 3	Room 2	Wall 1	Ceiling	Plaster/sheetrock	Good	0	0	Negative
7	10/21/2013	Unit 3	Room 2	Wall 3	Wall	Plaster/sheetrock	Poor	0	0	Negative
8	10/21/2013	Unit 3	Room 3	Wall 3	Wall	Plaster/sheetrock	Poor	0	0	Negative
9	10/21/2013	Unit 3	Room 3	Wall 3	Window Frame	Wood	Good	0	0	Negative
10	10/21/2013	Unit 3	Room 3	Wall 3	Window Sill	Wood	Good	0	0	Negative
11	10/21/2013	Unit 3	Room 3	Wall 3	Ceiling	Plaster/sheetrock	Good	0	0	Negative
12	10/21/2013	Unit 3	Room 4	Wall 1	Wall	Plaster/sheetrock	Poor	0	0	Negative
13	10/21/2013	Unit 3	Room 4	Wall 1	Ceiling	Plaster/sheetrock	Poor	0	0	Negative
14	10/21/2013	Unit 3	Room 4	Wall 4	Window Frame	Wood	Good	0	0	Negative
15	10/21/2013	Unit 3	Room 4	Wall 4	Window Sill	Wood	Good	0	0.01	Negative
16	10/21/2013	Unit 3	Room 5	Wall 1	Ceiling	Plaster/sheetrock	Good	0	0	Negative
17	10/21/2013	Unit 3	Room 5	Wall 2	Window Frame	Wood	Good	0	0	Negative
18	10/21/2013	Unit 3	Room 5	Wall 2	Window Sill	Wood	Poor	0	0	Negative
19	10/21/2013	Unit 3	Room 6	Wall 1	Ceiling	Plaster/sheetrock	Good	0	0	Negative
20	10/21/2013	Unit 3	Room 6	Wall 1	Wall	Plaster/sheetrock	Poor	0	0	Negative
21	10/21/2013	Unit 3	Exterior Facade	Wall 1	Door Frame	Wood	Fair	0	0	Negative
22	10/21/2013	Unit 3	Exterior Facade	Wall 1	Door	Metal	Good	0	0	Negative
23	10/21/2013	Unit 3	Exterior Facade	Wall 1	Siding	vinyl	Good	0	0	Negative
24	10/21/2013	Unit 3	Exterior Facade	Wall 1	Window Frame	vinyl	Good	0	0	Negative
25	10/21/2013	Unit 3	Exterior Facade	Wall 2	Siding	vinyl	Good	0	0	Negative
26	10/21/2013	Unit 3	Exterior Facade	Wall 3	Siding	vinyl	Good	0	0	Negative
27	10/21/2013	Unit 3	Exterior Facade	Wall 3	Window Frame	vinyl	Good	0	0	Negative

# **APPENDIX B**

## Laboratory Analytical Results





# Creative Environment Solutions Corp.

39 West 37<sup>th</sup> Street, 14<sup>th</sup> Floor, New York, NY 10018

Phone: 212.290.6323 Fax: 212.290.6325

LICENSED & APPROVED by NYS DOH/DOL/DOS, NYC DOB/DEP, FDNY, PIE

## SAMPLING CHAIN-OF-CUSTODY FORM PAGE ( 1 OF 1 )

<b>Date Collected:</b> 10/21/13	<b>Project Name:</b> Gilbane - SRP#: 0037053-Unit 324	<b>Client:</b> Gilbane
<b>Collected by:</b> Felix Kiselyuk	<b>Project Location:</b> 1108 Barnegat Ave, Seaside Heights, NJ	<b>Project No.:</b> 13-07.339

**Task / Activity:** Background, Pre-Abatement/Clean-Up, During Abatement/Clean-Up, Post Abatement/Clean-Up, Inspection, Repair/ Interim Control, Construction/Alteration/Demolition, Other: \_\_\_\_\_

**Matrix:** s = SOIL; L = LIQUID; A = AIR; SL = SLUDGE; W = WIPE; P = PAINT CHIPS; B = BULK MATERIAL

**Laboratory:** EMSL ELAP No. 11506 **Analysis Requested:** NIOSH 7400A  
 ELAP No. \_\_\_\_\_ TEM (AHERA)  
 ELAP No. \_\_\_\_\_ Other: \_\_\_\_\_  
As Indicated

Sample ID	Matrix	Flow Rate		Average Flow Rate	Time		Total Minutes	Total Volume	Sample Location / Description	Analysis Requested/Results:				
		Start	Finish		Start	Finish				Lead	Asbestos PLM	Asbestos TEM	VOC	SVOC
L3-1	W								Room 1 - Window Sill	✓				
L3-2	W								Room 3 - " "	✓				
L3-3	W								Room 4 - " "	✓				
L3-4	W								Room 5 - " "	✓				
L3-5	W								Field Blank	✓				
L4-1	W								Room 1 - Window Sill	✓				
L4-2	W								Room 4 - " "	✓				
L4-3	W								Room 5 - " "	✓				
L4-4	W								Room 1 - Floor	✓				
L4-5	W								Field Blank	✓				
S34-1	S								Exterior - West Side	✓				
S34-2	S								Exterior - North Side	✓				
S34-3	S								Exterior - South Side	✓				

2013 OCT 21 PM 8:42  
 EMSL MANHATTAN LAB RECEIVED

**Turn-Around-Time:** Immediate 4 Hr. 24 Hr. 48 Hr. 72 Hr. **Results to:** X Fax: 212-290-6325

3-5 Days 5-10 Days Other

X E-mail: ~~cescenter@ces.com~~

**Special Instructions:**

Other: cescenter@aol.com

Site		Laboratory	
Relinquished By	Delivery Method	Received By	Date
Felix Kiselyuk	Hand	[Signature]	10/21/13 8:42pm

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018

Phone/Fax: (212) 290-0051 / (212) 290-0058

<http://www.EMSL.com>[manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

EMSL Order:	031341171
CustomerID:	CES50
CustomerPO:	
ProjectID:	

Attn: **Creative Environment Solutions Corp.**  
**39 West 37th Street**  
**14th Floor**  
**New York, NY 10018**

Phone: (212) 290-6323  
 Fax: (212) 290-6325  
 Received: 10/21/13 8:42 PM  
 Collected: 10/21/2013

Project: 13-07.339/ GILBANE/ GILBANE SRP #0037053/ UNIT 3&4/ 1108 BARNEGAT AVE. SEASIDE HEIGHTS, NJ

**Test Report: Lead in Soils by Flame AAS (SW 846 3050B\*/7000B)**

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
S34-1	0011	10/21/2013	10/22/2013	310 mg/Kg
Site: EXTERIOR/ WEST SIDE				
S34-2	0012	10/21/2013	10/22/2013	46 mg/Kg
Site: EXTERIOR/ NORTH SIDE				
S34-3	0013	10/21/2013	10/22/2013	210 mg/Kg
Site: EXTERIOR/ SOUTH SIDE				

Miron Apfeldorfer, Laboratory Manager  
 or other approved signatory

Reporting limit is 40 mg/kg based on the minimum sample weight per our SOP. The QC data associated with these sample results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. Results reported based on dry weight. \*slight modification to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.

Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--ELLAP Accredited #102581, NYS ELAP 11506

Initial report from 10/22/2013 15:34:21



# EMSL Analytical, Inc.

307 West 38th Street, New York, NY 10018  
 Phone/Fax: (212) 290-0051 / (212) 290-0058  
<http://www.EMSL.com> [manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

EMSL Order: 031341171  
 CustomerID: CES50  
 CustomerPO:  
 ProjectID:

Attn: **Creative Environment Solutions Corp.**  
**39 West 37th Street**  
**14th Floor**  
**New York, NY 10018**

Phone: (212) 290-6323  
 Fax: (212) 290-6325  
 Received: 10/21/13 8:42 PM  
 Collected: 10/21/2013

Project: 13-07.339/ GILBANE/ GILBANE SRP #0037053/ UNIT 3&4/ 1108 BARNEGAT AVE. SEASIDE HEIGHTS, NJ

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B\*/7000B)

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
L3-1	0001	10/21/2013	10/22/2013	n/a	<10 µg/wipe
Site: RM 1/ WINDOW SILL					
L3-2	0002	10/21/2013	10/22/2013	n/a	<10 µg/wipe
Site: RM 3/ WINDOW SILL					
L3-3	0003	10/21/2013	10/22/2013	n/a	<10 µg/wipe
Site: RM 4/ WINDOW SILL					
L3-4	0004	10/21/2013	10/22/2013	n/a	<10 µg/wipe
Site: RM 5/ WINDOW SILL					
L3-5	0005	10/21/2013	10/22/2013	n/a	<10 µg/wipe
Site: FIELD BLANK					
L4-1	0006	10/21/2013	10/22/2013	n/a	<10 µg/wipe
Site: RM 1/ WINDOW SILL					
L4-2	0007	10/21/2013	10/22/2013	n/a	<10 µg/wipe
Site: RM 4/ WINDOW SILL					
L4-3	0008	10/21/2013	10/22/2013	n/a	89 µg/wipe
Site: RM 5/ WINDOW SILL					
L4-4	0009	10/21/2013	10/22/2013	n/a	64 µg/wipe
Site: RM 1/ FLOOR					
L4-5	0010	10/21/2013	10/22/2013	n/a	<10 µg/wipe
Site: FIELD BLANK					

*M. Apfeldorfer*

Miron Apfeldorfer, Laboratory Manager  
 or other approved signatory

Reporting limit is 10 ug/wipe. The QC data associated with these sample results included in this report meet the method quality control requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities.

\* slight modifications to methods applied Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted  
 Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--ELLAP Accredited #102581, NYS ELAP 11506

Initial report from 10/22/2013 15:34:21

# **APPENDIX C**

## Licenses and Certifications

## Performance Characteristic Sheet

EFFECTIVE DATE: December 1, 2006

EDITION NO.: 1

### MANUFACTURER AND MODEL:

Make: *Innov-X Systems, Inc.*  
Models: *LBP4000 with software version 1.4 and higher*  
Source: *X-ray tube*

### FIELD OPERATION GUIDANCE

#### OPERATING PARAMETERS:

Inspection mode, variable reading time.

#### XRF CALIBRATION CHECK LIMITS:

1.0 to 1.1 mg/cm<sup>2</sup> (inclusive)

#### SUBSTRATE CORRECTION:

Not applicable

#### INCONCLUSIVE RANGE OR THRESHOLD:

INSPECTION MODE READING DESCRIPTION	SUBSTRATE	INCONCLUSIVE RANGE (mg/cm <sup>2</sup> )
Results not corrected for substrate bias on any substrate	Brick	0.6 to 1.1
	Concrete	0.6 to 1.1
	Drywall	0.6 to 1.1
	Metal	0.6 to 1.1
	Plaster	0.6 to 1.1
	Wood	0.6 to 1.1



## Certificate of Calibration

Certification No: 0111628-1

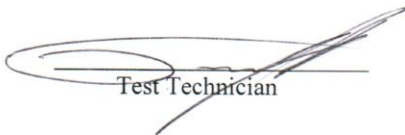
**Date Calibrated:** April 16, 2010


**Instrument No:** 11628

**Type:** I-3000

**This instrument was calibrated according to Innov-X Systems in-house calibration procedure. The calibration was verified using Alloy Certified Reference Materials produced by Analytical Reference Materials International (ARMI) and calibration was verified using Soil Certified Reference Materials produced by National Institute of Standards and Technology (NIST)**

**This instrument conforms to Innov-X Systems Quality Assurance standards.**

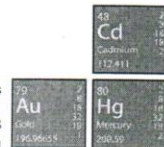
  
Test Technician

  
Q.A.

**The Netherlands**  
(P) +31 (0) 7362 72590  
(F) +31 (0) 7362 72599

**Hong Kong**  
(P) +852 2 515 0999  
(F) +852 2 505 6129

**Worldwide Headquarters**  
100 Sylvan Road, Suite 100, Woburn, MA 01801  
(781) 938-5005 Fax: (781) 938-0128  
[www.innovxsys.com](http://www.innovxsys.com)





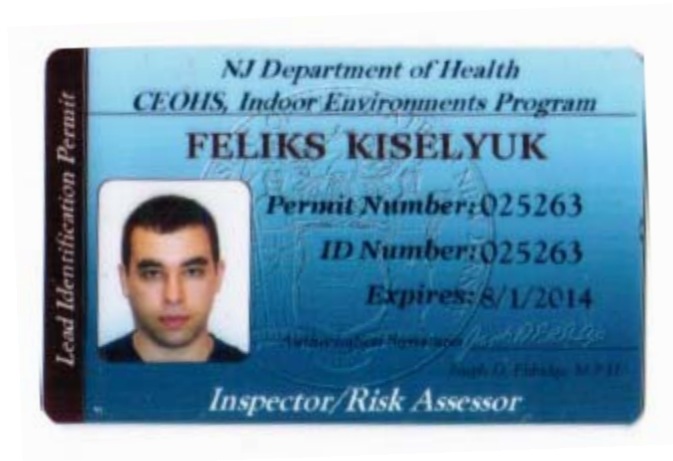
WBE Certified  
www.CEScenter.com

## Creative Environment Solutions Corp.

39 West 37<sup>th</sup> Street, 14<sup>th</sup> Floor, New York, NY 10018

Phone: 212.290.6323 Fax: 212.290.6325

LICENSED & APPROVED by NYS DOH/DOL/DOS, NYC DOB/DEP, FDNY, PIE



Consulting & Training • Licensed & Certified Environmental Safety Compliance & Analytical Services • WBE

Creating Solutions For Your Environment

## LEAD HAZARD EVALUATION NOTICE

Address: 1108 Barnegat Avenue, Unit #4, Seaside Heights, New Jersey 0875

---

Evaluation Completed (circle one):    Paint Inspection        Paint Testing        Risk Assessment

Date: 10/21/13

### Summary of Results:

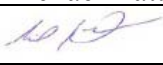
       No lead-based paint or lead-based paint hazards were found.

  X   Lead-based paint and/or lead-based paint hazards were found. See attachment for details

Contact person for more information about the risk evaluation:

Printed name: Feliks Kiselyuk  
Signature: \_\_\_\_\_  
Date: 10/31/13  
Organization: Sky Environmental Services, Inc.  
Street: 140 Boulevard  
City & State Mountain Lakes, New Jersey  
Zip 07046  
Phone #: 201-679-2250

Person who prepared this notice:

Printed name: Michael Rattacasa  
Signature:   
Date: 10/30/13  
Organization: Creative Environment Solutions Corp.  
Street: 39 West 37<sup>th</sup> Street, 14<sup>th</sup> Fl.  
City & State New York, New York,  
Zip 10018  
Phone #: 212-290-6323



<b>Contaminated Soil</b>		
<b>Area</b>	<b>mg/g (ppm)</b>	<b>Location</b>
<input checked="" type="checkbox"/> None		
<input type="checkbox"/> Perimeter	mg/g (ppm)	
<input type="checkbox"/> Play Area	mg/g (ppm)	
<input type="checkbox"/> Other	mg/g (ppm)	

<b>Contaminated Dust</b>		
<b>Area</b>	<b>µg/SF</b>	<b>Location</b>
<input type="checkbox"/> None		
<input type="checkbox"/> Windowsill	µg/SF	
<input checked="" type="checkbox"/> Floor	64 µg/SF	Room One
<input type="checkbox"/> Other	µg/SF	
<input type="checkbox"/> Other	µg/SF	

<b>Other Hazards</b>				
<b>Component*</b>	<b>Location</b>	<b>Condition (good, fair, poor)</b>	<b>Friction or Impact Surface?</b>	<b>Lead Content (if known)</b>
1.				mg/cm <sup>2</sup> (ppm)
2.				mg/cm <sup>2</sup> (ppm)
3.				mg/cm <sup>2</sup> (ppm)
4.				mg/cm <sup>2</sup> (ppm)
5.				mg/cm <sup>2</sup> (ppm)
6.				mg/cm <sup>2</sup> (ppm)
7.				mg/cm <sup>2</sup> (ppm)
8.				mg/cm <sup>2</sup> (ppm)
9.				mg/cm <sup>2</sup> (ppm)
10.				mg/cm <sup>2</sup> (ppm)
11.				mg/cm <sup>2</sup> (ppm)
12.				mg/cm <sup>2</sup> (ppm)
13.				mg/cm <sup>2</sup> (ppm)
14.				mg/cm <sup>2</sup> (ppm)

\* Components include but are not limited to (interior and exterior) windows, doors, trim, fences, porches, walls and floors.



## **Creative Environment Solutions Corp.**

39 West 37<sup>th</sup> Street, 14<sup>th</sup> Floor, New York, NY 10018

Phone: 212.290.6323 Fax: 212.290.6325

LICENSED & APPROVED by NYS DOH/DOL/DOS, NYC DOB/DEP, FDNY, PIE

### LIMITED LEAD-BASED PAINT RISK ASSESSMENT REPORT

Site Location:

**1108 Barnegat Avenue  
Unit #4  
Seaside Heights, New Jersey 08751  
SRP0037053**

Prepared for:

**Gilbane Building Company  
New Jersey LLRP Program  
3150 Brunswick Pike, Suite 300  
Lawrenceville, New Jersey 08648**

Prepared by:

**Creative Environment Solutions Corp.**  
39 West 37<sup>th</sup> Street, 14<sup>th</sup> Floor  
New York, New York 10018

October 31, 2013

**EXECUTIVE SUMMARY**

Creative Environment Solutions Corp. (CES) was retained by Gilbane Building Company; located at, 3150 Brunswick Pike, Suite 300, Lawrenceville, New Jersey 08648, to perform a limited Risk Assessment for Lead-Based Paint (LBP) at the Private Residence; located at, 1108 Barnegat Avenue, Unit #4, Seaside Heights, New Jersey 08751. The inspection was conducted in conjunction with the residence's participation in the New Jersey Landlord Repair Program (LLRP).

CES' New Jersey Department of Health and Senior Services certified Lead Paint Inspector/Risk Assessor, Feliks Kiselyuk, performed a LBP Risk Assessment at the above-referenced location. The inspection was conducted to identify the presence of any LBP and/or lead hazards located within the aforementioned interior and/or exterior of the residence. Mr. Kiselyuk utilized an [Innov-X System Alpha Series X-Ray Fluorescence Spectrometer] (XRF) to determine the presence or absence of lead in paint.

The analytical results from this Assessment effort identified the following lead-based paint (LBP) and Lead hazards, as defined by the United States Environmental Protection Agency (USEPA) and/or the department of Housing and Urban Development (HUD) standards:

Interior LBP

- No LBP was identified on the interior.

Exterior LBP

- No LBP was identified on the exterior.

Existing Lead-Based Paint Hazards and Potential Lead Hazards

There were no areas coated with Lead-Based Paint (LBP) that is deteriorated and currently present existing lead-based paint hazards. All component substrates are wood.

Dust hazards were identified within the Room One's floor..

No soil lead hazards were identified.

There were no areas coated with LBP that is intact and that do not currently present lead hazards. However, the upcoming renovation plans include work inside the house and scraping and repainting the exterior. If these renovations occur, lead-safe work practices will need to be implemented during the project to ensure that lead hazards are not created.

Future renovations plans were not provided to CES at the time of the inspection.

Please refer to the enclosed for further inspection details, XRF results and/or laboratory analytical results.

Please refer to Table I for a full summary of inspection results.

**IDENTIFYING INFORMATION**

A Lead Hazard Risk Assessment and Limited LBP Testing (Assessment) was conducted at 1108 Barnegat Avenue, Unit #4, Seaside Heights, New Jersey 08751 on October 7, 2013. The Assessment was conducted by Feliks Kiselyuk, (025263). The purpose of the Assessment was to identify the presence of lead hazards on and/or in a limited number of surfaces inside and outside the residence, as well as to identify the presence of deteriorated lead-based paint (LBP) and LBP that may be disturbed during planned renovation and/or restoration activities.

**PROPERTY RENOVATION AND REPAIR HISTORY**

Historic renovation and repair history for the subject property were not provided to CES at the time of the assessment.

## PREVIOUS SAMPLING AND TESTING

Records regarding previous lead sampling and/or testing at the subject property were not provided to CES at the time of the assessment.

## IDENTIFIED LEAD HAZARDS

The subject property was impacted by Hurricane Sandy; therefore, all materials coated with LBP have the potential to be impacted by future renovation and/or restoration activities.

### Existing Lead Hazards

The following areas are coated with Lead-Based Paint (LBP) that is *deteriorated* and currently present existing lead-based paint hazards.

No areas were identified

### Potential Lead Hazards

The following areas are coated with LBP that is intact and that do not currently present lead hazards. However, the upcoming renovation plans include work inside the house and scraping and repainting the exterior. If these renovations occur, lead-safe work practices will need to be implemented during the project to ensure that lead hazards are not created.

No areas were identified.

Please refer to the enclosed for further inspection details, XRF results and/or laboratory analytical results.

## PAINT SAMPLING AND TESTING

Limited LBP Testing, conforming with HUD Guidelines 24 CFR 35 Section 35.930 (c), (d) was accomplished at this residence on surfaces found to have deteriorated paint and/or where it was indicated to the Assessor that planned renovation would occur. No paint chip samples were taken. On October 21, 2013, a total of twenty five (25) tests (assays) were taken at a limited number of specified surfaces on the inside and outside of the residence using an XRF analyzer. Deteriorated paint and areas that were specified to be disturbed during the planned renovation project were tested. Lead concentrations that meet or exceed the HUD published levels identified as being potentially dangerous (e. g., greater than or equal to 1.1 milligrams per centimeter square [ $> 1.1 \text{ mg/cm}^2$ ]) were not encountered.

It should be noted that lead concentrations (in paint) that are less than the levels that identify a surface coating as LBP still have the potential of causing lead poisoning. Should these or any potential LBP painted components and/or surfaces be disturbed in any manner that generates dust, extreme care must be taken to limit its spread. It should be assumed that any and all painted surfaces, components, or surfaces not requested to be tested as part of this investigation, or any previous investigations, are coated with LBP, and that renovation or repair activities in these areas dictate the use of safe work practices that limit dust generation and area contamination.

## INTERIOR DUST SAMPLING

A total of five (5) single surface dust wipe samples were collected in an effort to help to determine the levels of lead-containing dust on the interior windowsills and floors. These samples were collected from areas most likely to be lead contaminated if lead-in-dust is present. These samples were collected in accordance with the requirements of ASTM Standard E-1728, Standard Practice for Field Collection of Settled Dust Samples Using Wipe Sampling Methods for Lead Determination by Atomic Spectrometry Techniques. USEPA and HUD regulations define the following as dangerous levels for lead dust in residences: floors –  $\geq 40 \text{ } \mu\text{g}/\text{ft}^2$  (micrograms per square foot); interior windowsills –  $\geq 250 \text{ } \mu\text{g}/\text{ft}^2$ ; and, interior window troughs –  $\geq 400 \text{ } \mu\text{g}/\text{ft}^2$ . Please refer to **Appendix B – Laboratory Analytical Results** for the detailed information regarding dust sampling results. According to the laboratory analytical results, one (1) of the five (5) samples collected exhibited lead concentrations in excess of the aforementioned regulatory thresholds. This sample was obtained from Room one's floor and constitutes a dust-lead hazard in that room.

## SOIL SAMPLING AND LABORATORY INFORMATION

Three (3) composite soil samples were collected at this residence in accordance with the requirements of ASTM Standard E-1727, Standard Practice for Field Collection of Soil Samples for Lead Determination by Atomic Spectrometry Techniques. A Composite sample is a sample containing soil from a stated number of locations mixed together to form a Composite sample. The first sample consisted of soil from four locations on the west side at 1' on center (O.C.). The second sample was collected from four separate locations on the north side at 1' O.C. The third sample was collected from four separate locations on the south side at 1' O.C. The samples were collected from bare soil areas only. The analytical results did not identify lead concentrations at or above the levels that the USEPA and HUD identifies as dangerous. Please refer to Appendix B – Laboratory Analytical Results for the detailed information regarding soil sampling results.

## ONGOING MONITORING

Ongoing monitoring is necessary in all dwellings in which LBP is known or assumed to be present. At these dwellings, the very real potential exists for LBP hazards to develop. Hazards can develop by means such as, but not limited to: the failure of lead hazard control measures; previously intact LBP becoming deteriorated; dangerous levels of lead-in-dust (dust lead) re-accumulating through friction, impact, and deterioration of paint; or, through the introduction of contaminated exterior dust and soil into the interior of the structure. Ongoing monitoring typically includes two different activities: re-evaluation and annual visual surveys. A re-evaluation is a risk assessment that includes limited soil and dust sampling and a visual evaluation of paint films and any existing lead hazard controls. Re-evaluations are supplemented with visual surveys by the Owner, which should be conducted at least once a year. Owner conducted visual surveys do not replace the need for professional re-evaluations. Visual surveys should confirm that all Paint with known or suspected LBP are not deteriorating, that lead hazard control methods have not failed, and that structural problems do not threaten the integrity of any remaining known, assumed or suspected LBP. The partial table below is taken from Table 6.1, Standard Re-evaluation Schedules, as found in the HUD publication entitled: Guidelines for the Evaluation and Control of LBP Hazards in Housing, dated June 1995, with September 1997 revisions. It is intended as a guideline for the Owner to assess the condition of areas where hazard control activities occurred.

Factors at this residence require the use of Ongoing Monitoring Schedule item number three (3), to dictate monitoring protocol. Visual surveys by the Owner should occur on at least a yearly basis for all painted surfaces. All surfaces that have undergone the hazard control strategy of Interim Controls, Encapsulation or Enclosure should also be checked during this survey. If components are replaced (windows), no re-evaluation or visual survey would be needed, since the LBP would have been removed with the old windows. Please refer to your community development agency, housing authority, or other applicable agency for additional local/regional regulations and guidelines governing re-evaluation activities.

### Standard Re-evaluation Schedule

Schedule	Original Evaluation Results	Action taken	Re-evaluation Frequency & Duration	Visual Survey Schedule
3	The average of leaded dust levels on all floors, interior windows, or window troughs sampled exceeds the applicable standard, but by less than a factor of 10.	A. Interim controls and/or hazard abatement (or mixture of the two), including, but not necessarily limited to, dust removal. This schedule does not include window replacement. B. Treatments specified in section A plus replacement of all windows with lead hazards. C. Abatement of all lead-based paint using encapsulation or enclosure. D. Removal of all lead-based paint.	1-2 Years  1 Year  None.  None.	Annually and whenever information indicates a possible problem except for encapsulants. The first visual survey of encapsulants should be done one month after clearance; the second should be done 6 months later and annually thereafter.  Same as above  None

**DISCLOSURE REGULATIONS**

A copy of this complete report must be made available to new lessees (tenants) and/or must be provided to purchasers of this property under Federal law before they become obligated under any future lease or sales contract transactions (Section 1018 of Title X – found in 24 CFR Part 35 and 40 CFR Part 745), until the demolition of this property. Landlords (Lessors) and/or sellers are also required to distribute an educational pamphlet developed by the EPA entitled “Protect Your Family From Lead in Your Home” and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from LBP hazards.

**FUTURE RENOVATION AND/OR REHABILITATION PRECAUTIONS**

It should be noted that during this Assessment, a limited number of areas were tested for the presence of LBP. All LBP, dust, and soil hazards that were identified are addressed in this report. However, LBP, dust lead hazards, and/or soil lead hazards may be present at other locations of the property. Additional paint testing should precede any future remodeling activities that occur at any untested areas. Additional dust and/or soil sample collection and analysis should follow any hazard control activity, repair, remodeling, or renovation effort, and any other work efforts that may in any way disturb LBP and/or any lead containing materials. These Assessment activities will help the Client and owner to ensure the health and safety of the occupants and the neighborhood. Details concerning lead safe work techniques and approved hazard control methods can be found in the HUD publication entitled: “Guidelines for the Evaluation and Control of LBP Hazards in Housing” (June 1995 & 1997 Revision).

**LEAD HAZARD CONTROL OPTIONS AND COST ESTIMATES**

Lead-safe work practices and worker/occupant protection practices complying with current EPA, HUD and OSHA standards will be necessary to safely complete all work involving the disturbance of LBP coated surfaces and components. In addition, any work considered Lead hazard control will enlist the use of interim control (temporary) methods and/or abatement (permanent) methods. It should be noted that all lead hazard control activities have the potential of creating additional hazards, or even creating hazards that were not present before. All persons and/or firms performing lead hazard control activities must have received proper training in Lead-Safe Work Practices and/or Lead Abatement. Details for the listed lead hazard control options and issues surrounding occupant/worker protection practices can be found in the publication entitled: Guidelines for the Evaluation and Control of LBP Hazards in Housing (June 1995 & 1997 Revision) published by the HUD, as well as in the Occupational Safety and Health Administration (OSHA) regulations found in 29 CFR, Part 1926.62, known as the OSHA Lead Exposure in Construction Industry Standard.

The associated cost estimates, unless otherwise noted, include the labor and materials to accomplish the stated activity and most additional funds typically found to be necessary to complete worker protection, site containment, and cleanup procedures. These are approximate estimates only and due to a variety of potential factors, may not accurately reflect all local cost factors. A precise estimate must be obtained from a certified LBP abatement contractor or a contractor trained in lead safe work practices. Properly trained and/or licensed persons, as well as properly licensed firms (as mandated) should accomplish all abatement/interim control activities conducted at this residence.

Interim controls, as defined by HUD, means a set of measures designed to temporarily reduce human exposure to LBP hazards and/or lead containing materials. These activities include, but are not limited to: component and/or substrate repairs; paint and varnish repairs; the removal of dust-lead hazards; renovation; remodeling; maintenance; temporary containment; placement of seed, sod or other forms of vegetation over bare soil areas; the placement of at least 6 inches of an appropriate mulch material over an impervious material, laid on top of bare soil areas; the tilling of bare soil areas; extensive and specialized cleaning; and, ongoing LBP maintenance activities.

Abatement, as defined by HUD, means any set of measures designed to permanently eliminate LBP and/or LBP hazards. The product manufacturer and/or contractor must warrant abatement methods to last a minimum of twenty (20) years, or these methods must have a design life of at least twenty (20) years. These activities include, but are not necessarily limited to: the removal of LBP from substrates and components; the replacement of components or fixtures with lead containing materials and/or lead containing paint; the permanent enclosure of LBP with construction materials; the encapsulation of LBP with approved products; the removal or permanent covering (concrete or asphalt) of soil-lead hazards; and, extensive and specialized cleaning activities.

## Special Cleaning Preceding Lead Hazard Control Activities

Before any lead hazard control activities begin, the structure and site must be inspected and pre-cleaned following HUD specified cleaning protocols, as detailed in the Guidelines for the Evaluation and Control of LBP Hazards in Housing (June 1995 & 1997 Revision), published by the U.S. Department of Housing and Urban Development. Some of the required steps include removing large debris and paint chips followed by HEPA vacuuming of all horizontal surfaces (floors, windowsills, troughs, etc.). The cleaning protocols described in this publication can assist the contractor in doing a preliminary cleaning and improving the chances of passing clearance inspections after remediation.

**Table II: Lead in Dust/Soil Contamination Cost Estimate**

Line Items	Material(s)	Cost Estimate
1	Room One Floor	\$1,900.00

\*The aforementioned cost estimate assumes all abatement activities are conducted by Union Labor. Additionally the cost estimate assumes that the residency achieves regulatory compliance following one(1) contamination clean-up.

## LIMITATIONS AND CONDITIONS

CES has performed the tasks set forth above in a thorough and professional manner consistent with industry standards. CES cannot guarantee and does not warrant that this limited assessment has revealed all adverse environmental conditions affecting the site. Nor can CES warrant that the assessment requested will satisfy the dictates of, or provide a legal defense in connection with, environmental laws or regulations. The observations and findings were representative of the conditions from the site on the date of inspection. Often materials are located in confined or inaccessible locations with little or no visible manifestation of their presence. These materials may be found in various areas under existing flooring materials, above ceilings, behind walls, materials within fixtures, electrical wire casing, or buried pipes and wires. Due to the potential for hidden materials to be present, it may not be possible to determine if all suspect building materials have been identified, located, and subsequently tested. Destructive measures to access these and other potentially hidden materials were not employed by CES as part of this project. However, CES does warrant that its investigations and methodology reflect our best efforts based upon prevailing standard of care in the environmental industry.

The information contained in this report was prepared based upon specific parameters and regulations in force at the time of this report. The information herein is only for the specific use of the client and CES. CES accepts no responsibility for the use, interpretation, or reliance by other parties on the information contained herein, unless written authorization has been obtained from CES.



Feliks Kiselyuk  
Certified Lead Paint Inspector/Risk Assessor

10/31/2013

Date



Michael J. Rattacasa  
Operations Director

10/31/2013

Date

# **APPENDIX A**

## XRF Testing Results Table



**1108 Barnegat Avenue, Unit 4  
Seaside Heights, New Jersey 08751**

Reading #	Date	Location	Room ID	Wall/ Elevation	Component	Substrate	Condition	Pb	Pass Fail Standard
1	10/21/2013	Unit 4	Room 1	Wall 1	Door Frame	Wood	Good	0	Negative
2	10/21/2013	Unit 4	Room 1	Wall 1	Door	Metal	Good	0	Negative
3	10/21/2013	Unit 4	Room 1	Wall 1	Wall	Plaster/sheetrock	Poor	0	Negative
4	10/21/2013	Unit 4	Room 1	Wall 1	Ceiling	Plaster/sheetrock	Good	0	Negative
5	10/21/2013	Unit 4	Room 1	Wall 1	Window Frame	Wood	Good	0	Negative
6	10/21/2013	Unit 4	Room 1	Wall 1	Window Sill	Wood	Poor	0	Negative
7	10/21/2013	Unit 4	Room 2	Wall 1	Wall	Plaster/sheetrock	Poor	0	Negative
8	10/21/2013	Unit 4	Room 2	Wall 1	Ceiling	Plaster/sheetrock	Good	0	Negative
9	10/21/2013	Unit 4	Room 3	Wall 1	Ceiling	Plaster/sheetrock	Good	0	Negative
10	10/21/2013	Unit 4	Room 4	Wall 1	Ceiling	Plaster/sheetrock	Good	0	Negative
11	10/21/2013	Unit 4	Room 4	Wall 3	Wall	Plaster/sheetrock	Poor	0	Negative
12	10/21/2013	Unit 4	Room 5	Wall 1	Wall	Plaster/sheetrock	Poor	0	Negative
13	10/21/2013	Unit 4	Room 5	Wall 1	Ceiling	Plaster/sheetrock	Poor	0	Negative
14	10/21/2013	Unit 4	Room 5	Wall 1	Door	Metal	Poor	0	Negative
15	10/21/2013	Unit 4	Room 5	Wall 1	Door Frame	Wood	Poor	0	Negative
16	10/21/2013	Unit 4	Exterior Facade	Wall 1	Door Frame	Wood	Poor	0	Negative
17	10/21/2013	Unit 4	Exterior Facade	Wall 1	Door	Metal	Poor	0	Negative
18	10/21/2013	Unit 4	Exterior Facade	Wall 1	Siding	vinyl	Good	0	Negative
19	10/21/2013	Unit 4	Exterior Facade	Wall 1	Window Frame	vinyl	Good	0	Negative
20	10/21/2013	Unit 4	Exterior Facade	Wall 3	Siding	vinyl	Good	0	Negative
21	10/21/2013	Unit 4	Exterior Facade	Wall 4	Siding	vinyl	Good	0	Negative
22	10/21/2013	Unit 4	Exterior Facade	Wall 4	Window Frame	vinyl	Good	0	Negative
23	10/21/2013		Calibration	Wall 1	Wall	Plaster/sheetrock	Good	0	Negative
24	10/21/2013		Calibration	Wall 1	Wall	Plaster/sheetrock	Good	0	Negative
25	10/21/2013		Calibration	Wall 1	Wall	Plaster/sheetrock	Good	0	Negative

# **APPENDIX B**

## Laboratory Analytical Results



# Creative Environment Solutions Corp.

39 West 37<sup>th</sup> Street, 14<sup>th</sup> Floor, New York, NY 10018

Phone: 212.290.6323 Fax: 212.290.6325

LICENSED & APPROVED by NYS DOH/DOL/DOS, NYC DOB/DEP, FDNY, PIE

## SAMPLING CHAIN-OF-CUSTODY FORM PAGE ( 1 OF 1 )

<b>Date Collected:</b> 10/21/13	<b>Project Name:</b> Gilbane - SRP#: 0037053-Unit 324	<b>Client:</b> Gilbane
<b>Collected by:</b> Felix Kiselyuk	<b>Project Location:</b> 1108 Barnegat Ave, Seaside Heights, NJ	<b>Project No.:</b> 13-07.339

**Task / Activity:** Background, Pre-Abatement/Clean-Up, During Abatement/Clean-Up, Post Abatement/Clean-Up, Inspection, Repair/ Interim Control, Construction/Alteration/Demolition, Other: \_\_\_\_\_

**Matrix:** s = SOIL; L = LIQUID; A = AIR; SL = SLUDGE; W = WIPE; P = PAINT CHIPS; B = BULK MATERIAL

**Laboratory:** EMSL ELAP No. 11506 **Analysis Requested:** NIOSH 7400A  
 ELAP No. \_\_\_\_\_ TEM (AHERA)  
 ELAP No. \_\_\_\_\_ Other: As Indicated

Sample ID	Matrix	Flow Rate		Average Flow Rate	Time		Total Minutes	Total Volume	Sample Location / Description	Analysis Requested/Results:				
		Start	Finish		Start	Finish				Lead	Asbestos PLM	Asbestos TEM	VOC	SVOC
L3-1	W								Room 1 - Window Sill	✓				
L3-2	W								Room 3 - " "	✓				
L3-3	W								Room 4 - " "	✓				
L3-4	W								Room 5 - " "	✓				
L3-5	W								Field Blank	✓				
L4-1	W								Room 1 - Window Sill	✓				
L4-2	W								Room 4 - " "	✓				
L4-3	W								Room 5 - " "	✓				
L4-4	W								Room 1 - Floor	✓				
L4-5	W								Field Blank	✓				
S34-1	S								Exterior - West Side	✓				
S34-2	S								Exterior - North Side	✓				
S34-3	S								Exterior - South Side	✓				

2013 OCT 21 PM 8:42  
 EMSL MANHATTAN LAB RECEIVED

**Turn-Around-Time:** Immediate 4 Hr. 24 Hr. 48 Hr. 72 Hr. **Results to:** X Fax: 212-290-6325

3-5 Days 5-10 Days Other

X E-mail: ~~cescenter@cescenter.com~~

**Special Instructions:**

Other: cescenter@aol.com

Site		Laboratory	
Relinquished By	Delivery Method	Received By	Date
Felix Kiselyuk	Hand	[Signature]	10/21/13 8:42pm

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018

Phone/Fax: (212) 290-0051 / (212) 290-0058

<http://www.EMSL.com>[manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

EMSL Order:	031341171
CustomerID:	CES50
CustomerPO:	
ProjectID:	

Attn: **Creative Environment Solutions Corp.**  
**39 West 37th Street**  
**14th Floor**  
**New York, NY 10018**

Phone: (212) 290-6323  
 Fax: (212) 290-6325  
 Received: 10/21/13 8:42 PM  
 Collected: 10/21/2013

Project: 13-07.339/ GILBANE/ GILBANE SRP #0037053/ UNIT 3&4/ 1108 BARNEGAT AVE. SEASIDE HEIGHTS, NJ

**Test Report: Lead in Soils by Flame AAS (SW 846 3050B\*/7000B)**

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
S34-1	0011	10/21/2013	10/22/2013	310 mg/Kg
Site: EXTERIOR/ WEST SIDE				
S34-2	0012	10/21/2013	10/22/2013	46 mg/Kg
Site: EXTERIOR/ NORTH SIDE				
S34-3	0013	10/21/2013	10/22/2013	210 mg/Kg
Site: EXTERIOR/ SOUTH SIDE				

Miron Apfeldorfer, Laboratory Manager  
 or other approved signatory

Reporting limit is 40 mg/kg based on the minimum sample weight per our SOP. The QC data associated with these sample results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. Results reported based on dry weight. \*slight modification to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.

Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--ELLAP Accredited #102581, NYS ELAP 11506

Initial report from 10/22/2013 15:34:21



# EMSL Analytical, Inc.

307 West 38th Street, New York, NY 10018

Phone/Fax: (212) 290-0051 / (212) 290-0058

<http://www.EMSL.com>

[manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

EMSL Order: 031341171

CustomerID: CES50

CustomerPO:

ProjectID:

Attn: **Creative Environment Solutions Corp.**  
**39 West 37th Street**  
**14th Floor**  
**New York, NY 10018**

Phone: (212) 290-6323  
Fax: (212) 290-6325  
Received: 10/21/13 8:42 PM  
Collected: 10/21/2013

Project: 13-07.339/ GILBANE/ GILBANE SRP #0037053/ UNIT 3&4/ 1108 BARNEGAT AVE. SEASIDE HEIGHTS, NJ

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B\*/7000B)

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
L3-1	0001	10/21/2013	10/22/2013	n/a	<10 µg/wipe
Site: RM 1/ WINDOW SILL					
L3-2	0002	10/21/2013	10/22/2013	n/a	<10 µg/wipe
Site: RM 3/ WINDOW SILL					
L3-3	0003	10/21/2013	10/22/2013	n/a	<10 µg/wipe
Site: RM 4/ WINDOW SILL					
L3-4	0004	10/21/2013	10/22/2013	n/a	<10 µg/wipe
Site: RM 5/ WINDOW SILL					
L3-5	0005	10/21/2013	10/22/2013	n/a	<10 µg/wipe
Site: FIELD BLANK					
L4-1	0006	10/21/2013	10/22/2013	n/a	<10 µg/wipe
Site: RM 1/ WINDOW SILL					
L4-2	0007	10/21/2013	10/22/2013	n/a	<10 µg/wipe
Site: RM 4/ WINDOW SILL					
L4-3	0008	10/21/2013	10/22/2013	n/a	89 µg/wipe
Site: RM 5/ WINDOW SILL					
L4-4	0009	10/21/2013	10/22/2013	n/a	64 µg/wipe
Site: RM 1/ FLOOR					
L4-5	0010	10/21/2013	10/22/2013	n/a	<10 µg/wipe
Site: FIELD BLANK					

Miron Apfeldorfer, Laboratory Manager  
or other approved signatory

Reporting limit is 10 ug/wipe. The QC data associated with these sample results included in this report meet the method quality control requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities.

\* slight modifications to methods applied Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--ELLAP Accredited #102581, NYS ELAP 11506

Initial report from 10/22/2013 15:34:21

# **APPENDIX C**

## Licenses and Certifications

## Performance Characteristic Sheet

EFFECTIVE DATE: December 1, 2006

EDITION NO.: 1

**MANUFACTURER AND MODEL:**

Make: *Innov-X Systems, Inc.*  
Models: *LBP4000 with software version 1.4 and higher*  
Source: *X-ray tube*

### FIELD OPERATION GUIDANCE

**OPERATING PARAMETERS:**

Inspection mode, variable reading time.

**XRF CALIBRATION CHECK LIMITS:**

1.0 to 1.1 mg/cm <sup>2</sup> (inclusive)
---

**SUBSTRATE CORRECTION:**

Not applicable

**INCONCLUSIVE RANGE OR THRESHOLD:**

INSPECTION MODE READING DESCRIPTION	SUBSTRATE	INCONCLUSIVE RANGE (mg/cm <sup>2</sup> )
Results not corrected for substrate bias on any substrate	Brick	0.6 to 1.1
	Concrete	0.6 to 1.1
	Drywall	0.6 to 1.1
	Metal	0.6 to 1.1
	Plaster	0.6 to 1.1
	Wood	0.6 to 1.1



## Certificate of Calibration

Certification No: 0111628-1

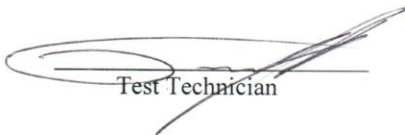
**Date Calibrated:** April 16, 2010

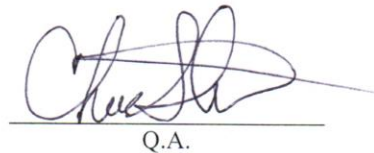
**Instrument No:** 11628

**Type:** I-3000

**This instrument was calibrated according to Innov-X Systems in-house calibration procedure. The calibration was verified using Alloy Certified Reference Materials produced by Analytical Reference Materials International (ARMI) and calibration was verified using Soil Certified Reference Materials produced by National Institute of Standards and Technology (NIST)**

**This instrument conforms to Innov-X Systems Quality Assurance standards.**

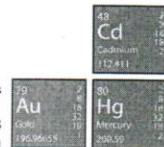
  
Test Technician

  
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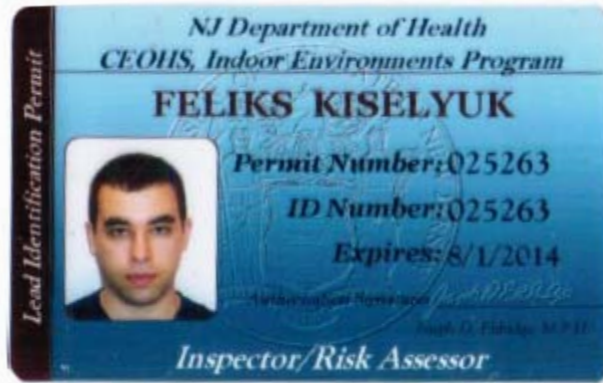
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www.CEScenter.com

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