



Engineering +  
Environmental

# Lead-Based Paint Inspection and Risk Assessment Report

Riverton Terrace Family  
14440 41<sup>st</sup> Avenue S  
Tukwila, Washington

Prepared for:  
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King County Housing Authority  
625 Andover Park West  
Tukwila, WA 98188

June 2012  
Project No. 40573.074

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## **LEAD-BASED PAINT INSPECTION AND RISK ASSESSMENT**

King County Housing Authority  
Riverton Terrace Family  
Tukwila, Washington

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**LEAD-BASED PAINT INSPECTION AND RISK ASSESSMENT**  
**KING County Housing Authority**  
**Riverton Terrace Family**  
**Tukwila, Washington**

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Risk Assessor  
 PBS Engineering + Environmental  
 Analytical Laboratory

## 1.0 IDENTIFYING INFORMATION

### BUILDING DATA

Riverton Terrace Family  
14440 41<sup>st</sup> Ave S  
Tukwila, WA

### CLIENT DATA

King County Housing Authority  
625 Andover Park West  
Tukwila, Washington 98188

Attn: Ms. Deborah McCaslin

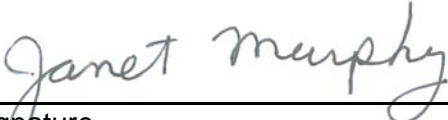
### SCOPE OF ASSESSMENT

On June 13-15, 2012, PBS Engineering + Environmental (PBS) conducted a lead-based paint inspection and risk assessment in accordance with the U.S. Department Housing and Urban Development (HUD), Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing. Nineteen units in seven buildings were selected by the client and PBS to be included in the scope.

### CERTIFICATIONS

#### Risk Assessor

Janet Murphy  
State of Washington  
Department of Community, Trade and Economic Development  
Risk Assessor Certification No: 0258 Expiration Date: 3/8/2013

  
\_\_\_\_\_  
Signature

June 29, 2012  
\_\_\_\_\_  
Date

#### Certifying Firm

PBS Engineering + Environmental  
2517 Eastlake Avenue East  
Seattle, Washington 98102  
Telephone: 206.223.9639

Certification No: 0178  
Expiration Date: 9/3/2013

#### Certified Laboratory

NVL Laboratories, Inc  
4708 Aurora Avenue North  
Seattle, Washington 98102  
Telephone: 206.547.0100

AIHA NLLAP Certification No: 101861

## 2.0 LEAD PAINT INSPECTION

### 2.1 Site Information

The Riverton Terrace Family site consists of seven buildings. The buildings are of wood construction with gypsum interior walls and ceilings. The exteriors are vinyl siding over wood siding. Apartment units are three or four bedrooms each with a bathroom, living room, kitchen, laundry room and half bath. The buildings are in good condition.

The majority of the interior surfaces are painted. Walls and ceilings are painted gypsum wallboard. Bathroom walls have ceramic tile or laminate inserts around tubs. Door frames are wood or metal. The doors are painted wood or metal. The exterior window frames, door frames and some deck components are vinyl. The exterior soffits and stair rails are metal.

### 2.2 Lead-Based Paint Inspection

The presence of lead in paint was determined through x-ray fluorescence spectroscopy.

#### 2.2.1 XRF Sampling

A handheld INNOV-X Systems Inc. X-Ray Fluorescence Analyzer (XRF) operating in lead paint mode was used to perform a surface by surface lead paint inspection of each selected unit and building.

HUD and Environmental Protection Agency (EPA) have set 1.0 milligrams per square centimeter ( $\text{mg}/\text{cm}^2$ ) as the threshold limit for lead-based paint as determined through X-Ray Fluorescence (XRF) testing. HUD and EPA have set 5,000 parts per million (ppm), or 0.5 percent by atomic absorption (AA) laboratory analysis as the threshold limit for lead-based paint. Paint that is known to contain lead levels less than those described above does not have to be evaluated, although all deteriorated paint (paint surfaces in poor condition) should be repaired because it may contain lower levels of lead that may contribute to lead dust or lead contaminated soil hazards.

All calibration readings were within the tolerance for this instrument. No substrate correction is required with the INNOV-X Systems XRF per the instrument's performance characteristic sheet.

The "Side" information presented on the XRF data sheets is in relation to the side of the rooms, or building exteriors where the XRF test spot is located. The inspector/risk assessor used the side with the posted address for each residence as the basis to establish side "A". Sides B, C, and D follow in clockwise rotation. The side with the posted address is used to establish Bedroom 1. The other bedrooms follow in a clockwise rotation.

Please refer to the XRF sample data table for the complete list of XRF samples located in Tab 1.

### 2.3 Components with Lead-Based Paint

Lead was found in painted components above the HUD level of 1.0 mg/cm<sup>2</sup> by XRF or 0.5% by AA. The following table lists the locations of lead-based paint.

BUILDING	LOCATION	Lead (mg/cm <sup>2</sup> )
Building D	Unit 14444 Laundry Wall A	1.0
Building G	Exterior Electrical Box	1.0
Building G	Manager's Office Wall A and D	1.0
Building G	Employee Restroom Wall B and D	1.0

### 2.4 Deteriorated Lead-Based Paint Surfaces

Lead-based painted surfaces were evaluated to be in an intact condition.

## 3.0 LEAD-BASED PAINT RISK ASSESSMENT

### 3.1 Locations and Types of Lead Hazards Identified

The lead-based paint in all locations was in an intact condition and presents no hazards at this time.

### 3.2 Dust Sample Results

The purpose of dust sampling is to determine the lead concentration in settled dust. Dust is an important pathway for childhood exposure to lead. Children can be exposed to leaded dust by inhalation or ingestion. Ingestion of leaded dust is a common pathway during normal hand to mouth activities involving their fingers, or toys that have come in contact with leaded dusts. Wipe sampling is the recommended method for collecting surface dust samples. Dust samples are typically collected from floors near friction and impact spots or areas of deteriorated paint, interior window sills, and window wells. Cabinets, shelves, and table tops may also be sampled if there is reason to suspect a surface dust hazard may exist caused by friction, impact points, or from areas of deteriorated paint nearby.

Dust wipes were collected in accordance with EPA 747-R-95-001, Residential Sampling for Lead: Protocols for Dust and Soil Sampling. All wipe samples were analyzed using EPA Method SW846-7000B, Flame Atomic Absorption.

HUD has established the following threshold limits for lead in settled dust in target housing: 40 µg/ft<sup>2</sup> on floors, 250 µg/ft<sup>2</sup> on window sills, and 400 µg/ft<sup>2</sup> in window wells.

Results of the single surface dust sampling conducted during this assessment revealed lead concentrations below EPA/HUD lead standards in all but one unit. The wipe sample from the floor of the Unit 14469 front entry contained a lead concentration of 350 µg/ft<sup>2</sup>.

The following table lists the locations and findings from lead dust wipe sampling.

SAMPLE NO.	LOCATION	SURFACE	LEAD (µg/ft <sup>2</sup> )
40573.074-1	Building A, Unit 14471	Front Entry Floor	<20.0
40573.074-2	Building A, Unit 14471	Bedroom One Floor	<20.0
40573.074-3	Building A, Unit 14469	Front Entry Floor	350.0

SAMPLE NO.	LOCATION	SURFACE	LEAD ( $\mu\text{g}/\text{ft}^2$ )
40573.074-4	Building A, Unit 14469	Kitchen Floor	<20.0
40573.074-5	Building A, Unit 14467	Front Entry Floor	<20.0
40573.074-6	Building A, Unit 14467	Bedroom One Floor	<20.0
40573.074-7	Building A, Unit 14465	Front Entry Floor	<20.0
40573.074-8	Building A, Unit 14465	Kitchen Floor	38.0
40573.074-9	Building A, Unit 14463	Front Entry Floor	<20.0
40573.074-10	Building A, Unit 14463	Bedroom Two	<20.0
40573.074-11	Building A, Unit 14461	Front Entry Floor	<20.0
40573.074-12	Building A, Unit 14461	Kitchen Floor	<20.0
40573.074-13	Building B, Unit 14469	Front Entry Floor	<20.0
40573.074-14	Building B, Unit 14469	Kitchen Floor	<20.0
40573.074-15	Building B, Unit 14466	Front Entry Floor	<20.0
40573.074-16	Building B, Unit 14466	Kitchen Floor	28.0
40573.074-17	Building B, Unit 14464	Front Entry Floor	23.0
40573.074-18	Building B, Unit 14464	Bedroom One Floor	<19.0
40573.074-19	Building C, Unit 14458	Front Entry Floor	<19.0
40573.074-20	Building C, Unit 14458	Bedroom Two Floor	<19.0
40573.074-21	Building C, Unit 14454	Front Entry Floor	<19.0
40573.074-22	Building C, Unit 14454	Bedroom One Floor	<19.0
40573.074-23	Building C, Unit 14452	Front Entry Floor	<19.0
40573.074-24	Building C, Unit 11452	Kitchen Floor	<19.0
40573.074-25	Building C Unit 11450	Front Entry Floor	<19.0
40573.074-26	Building C, Unit 11450	Kitchen Floor	<19.0
40573.074-27	Building C, Unit 14448	Front Entry Floor	<19.0
40573.074-28	Building C, Unit 14448	Kitchen Floor	<19.0
40573.074-29	Building D, Unit 14444	Front Entry Floor	<19.0
40573.074-30	Building D, Unit 14444	Laundry Room Floor	<19.0
40573.074-31	Building G, Manager's Office	Front Entry Floor	<21.0
40573.074-32	Building G, Employee Restroom	Front Entry Floor	<21.0
40573.074-34	Building F, Unit 14436	Bedroom One Floor	<21.0
40573.074-35	Building F, Unit 14436	Kitchen Floor	<21.0
Front Entry Floor	Building F, 14420	Front Entry Floor	<21.0
40573.074-37	Building F, 14420	Kitchen Floor	<21.0
40573.074-38	Building F, 14424	Front Entry Floor	<21.0
40573.074-39	Building F, Unit 14424	Bedroom Two Floor	<21.0

Lead wipe sample inventory and lab reports are located under Tab 1.

### 3.3 Soil Samples

Composite soil sampling was conducted around the foundation or “drip line” of the buildings and around the playground. The soil samples were collected in accordance with EPA 747-R-95-001, Residential Sampling for Lead: Protocols for Dust and Soil Sampling. All samples were analyzed using EPA Method SW846-7000B, Flame Atomic Absorption.

The EPA/HUD threshold for bare residential soil is 1,200 parts per million (ppm) and for child’s play areas is 250 ppm.

Analysis of the composite soil samples collected from the exterior drip lines of selected buildings revealed lead in soil below the EPA/HUD threshold for bare residential soil. Lead soil sample chain-of-custody and lab reports are located under Tab 1. PBS inspected the property for areas of bare soil in excess of 9 SF. Areas of bare soil were not present.

SAMPLE NO.	LOCATION	LEAD (ppm)
S1	Drip Line Building A	<32.0
S2	Drip Line Building B	46.0
S3	Drip Line Building C	60.0
S4	Drip Line Building D	47.0
S5	Drip Line Building E	45.0
S6	Drip Line Building G	45.0
S7	Drip Line Building F	45.0
S8	Playground Between Grass and Asphalt	38.0

## 4.0 LEAD HAZARD CONTROL

### 4.1 Definitions

Lead-based paint was identified on this property in an intact condition.

### 4.2 Program Development

A hazard control program is not required to be established for this property.

### 4.3 Lead Hazard Control Recommendations

No lead hazards were identified during this assessment, with the exception of one elevated dust wipe sample in Unit 14469. See discussion below. It is possible that lead hazards could develop at this site that did not exist at the time of this assessment. In order to prevent hazards from developing, PBS recommends that any new paint added to the buildings be lead-free and surfaces with lead-based paint be re-inspected.

One dust wipe collected from the front entry floor in Unit 14469 showed an elevated lead level. The source of the elevated lead wipe sample is unknown, as lead-based paint is not present in Unit 14469.

PBS recommends cleaning the front entry floor in Unit 14469 utilizing a HEPA vacuum and wet washing with an appropriate agent such as trisodium phosphate. Upon completion of cleaning, a wipe sample should be collected from the Unit 14469 entry floor to confirm the effectiveness of the cleaning.

#### 4.4 Notification of Results of the Risk Assessment

The Owner should provide results of this report to the residents in the dwelling. The Owner should explain to the residents:

1. No lead hazards were identified at the property, with the exception of the elevated wipe sample in Unit 14469.
2. Provide a copy of the EPA brochure; Protect Your Family From Lead In Your Home located in Tab 2 to the residents.

#### 4.5 Renovation Projects

The EPA requires persons performing renovation work that will disturb lead-based paint to provide building occupants with information about lead hazards. The Pre-Renovation Lead Information Rule (PLIR), also known as section **406(b)** of the **Toxic Substances Control Act**, is a rule requiring people performing renovation for compensation to distribute a lead hazard information pamphlet prior to commencing the renovation.

If your job is for compensation and will require you to disturb more than 2 ft<sup>2</sup> of paint in pre-1978 housing, then you are a renovator for the purposes of PLIR. This is not dependent upon whether what you do is typically considered a renovation. Whether you are a plumber, a drywaller, a painter, or an electrician, if your job requires that you disturb more than 2 ft<sup>2</sup> of paint, then you must comply with PLIR.

The term compensation extends beyond money. Providing services in exchange for other services (e.g., bartering) is included within the term. PLIR applies to owners renovating their own apartment buildings using maintenance staff as well as neighborhood handymen providing services to those in the neighborhood for services or goods other than money. Work that is performed for free (e.g., no exchange of money, goods, or services) or work performed by Do-It-Yourselfers in their own homes is not covered by PLIR. Work that is performed during an emergency (i.e., a hazardous, non-routine situation that could either threaten public health or cause substantial property damage) is also excluded from this rule.

A copy of the EPA handbook, The Lead-Based Paint Pre-Renovation Education Rule for contractors, property managers, and maintenance personnel is located under Tab 2.

The EPA provides "Pre-Renovation Education Advisor" to assist in understanding the regulations and how they apply to specific situations. It can also be found at: <http://www.epa.gov/opptintr/advisors/406b/>

#### 4.6 Regulatory Overview

Current lead-based paint regulations establish standards for certification, hazard levels, occupant education, disclosure, and occupational exposure to lead. The following regulations apply to lead-based paint activities in Washington.

##### **Environmental Protection Agency (EPA) 40 CFR Part 745:**

- **402/404** ensures that individuals conducting lead-based paint abatement, risk assessment, or inspection are properly trained and certified, that training programs are accredited, and that these activities are conducted according to reliable, effective and safe work practice standards.

- **403** established standards for lead-based paint hazards and lead dust cleanup levels in most pre-1978 housing and child-occupied facilities.
- **406** Ensures that owners and occupants of most pre-1978 housing are provided information concerning potential hazards of lead-based paint exposure before certain renovations are begun on that housing.
- **1018** Requires disclosure of known lead-based paint and/or lead-based paint hazards by persons selling or leasing housing constructed before the phase out of residential lead-based paint use in 1978.

#### **Occupational Safety and Health Administration Rules (OSHA) 29 CFR:**

- **1926.62** OSHA regulations which address occupational exposure to lead in the construction industry.
- **1910.1025** OSHA regulations which address occupational exposure to lead in general industry.

#### **State of Washington Department of Community, Trade and Economic Development. Washington Administrative Code (WAC) 365-230.**

- Addresses certification of individuals and firms engaged in lead-based paint activities and work practices.

#### **4.7 Ongoing Monitoring**

##### **4.7.1 Program Description**

Ongoing monitoring is required unless all lead-based paint is removed from a building and a certified risk assessor has determined that no lead-based paint hazards exist. Even in situations where lead-based paint hazards have been controlled and spaces have successfully passed clearance testing, the possibility that controls may fail or that previously intact lead-based paint may deteriorate necessitates the need for ongoing monitoring programs. Ongoing monitoring includes two types of activities. These are reevaluation and annual visual surveys.

##### **4.7.2 Reevaluation Schedule**

Reevaluations are conducted at specific intervals as described in Chapter 6 of the HUD Guidelines. These schedules can also vary based on the specific action taken to address identified lead-based paint hazards or lead-based paint.

According to the Guidelines, this property should be reevaluated in 6 months to 1 year. Additionally, reevaluations should occur following lead hazard control activities or prior to reoccupation of the buildings. If interim controls are used to address the lead-based painted components they should be visually inspected at least annually.

If all identified lead-based paint is removed from the property, then no reevaluation or annual visual inspection need be scheduled.

**Annual Visual Surveys**

Reevaluations are supplemented with visual surveys by the Owner or the Owner’s representative and should be conducted at least once per year. The annual survey is intended to monitor the condition of all known or suspected lead-based paint and control methods or structural problems that can cause lead-based paint to become deteriorated or contribute to hazardous dust levels. If the Owner receives information that a condition has arisen that could create a hazard, additional surveys should be conducted. If a hazardous condition is discovered interim control measures should be implemented until the source, or cause of damage is repaired or eliminated.

**Standard Reevaluation Schedule for Riverton Terrace Family Site**

Schedule	Evaluation Results	Action Taken	Reevaluation Frequency And Duration	Visual Survey (by owner or owner’s representative)
5	No leaded dust or leaded soil hazards identified but lead-based paint is found	Interim Controls or mixture of interim controls and abatement	2 Years	Annually and whenever information indicates a possible problem
		Abatement of all lead-based paint using encapsulation or enclosure	3 Years	Annually and whenever information indicates a possible problem
		Abatement of all lead-based paint hazards, but not all lead-based paint	4 Years	Annually and whenever information indicates a possible problem
		<b>Removal of all lead-based paint hazards and lead-based paint</b>	<b>NONE</b>	<b>NONE</b>

4.8 **Operations and Maintenance (O&M)**

4.8.1 Recommended Changes to Work Order System and Property Management

The presence of lead-based paint should be considered in all repair and maintenance work that disturbs building components with lead-based paint. If painted surfaces will be disturbed during a particular repair job, the painted surface should be tested to determine if it has lead-based paint on it, unless it has been tested previously by reliable testing. The results in this report indicate that lead-based paint is present in various locations in the buildings.

The Owner should tell residents to report any paint that is peeling, chipping, flaking, chalking, or otherwise deteriorating so that it can be repaired quickly and safely.

If lead-based paint is present (or is suspected to be present) in designated work areas, the maintenance worker should take the necessary precautions required by applicable regulations. Listed below are a number of training providers who can train the maintenance workers to handle lead-based painted surfaces safely.

If residents are present, the work areas should be sealed off so that leaded dust does not enter the living area, or the residents relocated temporarily if the scope of work is large. According to information supplied by the Owner, paint chips are now cleaned up by sweeping. Mopping or other wet cleaning should be used instead and in conjunction with a HEPA filtered vacuum cleaner for routine use to clean up dust and debris that may be generated.

The practice of examining the condition of the paint semi-annually or upon vacancy is a good one and should be continued. Those conducting the examination should also be trained to evaluate the condition of painted surfaces with regards to HUD and EPA requirements for visual examination of painted surfaces, such as those presented in Tab 2 of this report. Once trained in visual examination techniques, those personnel could then conduct the annual visual surveys in accordance with the Reevaluation Schedule presented in Section 4.0 of this report.

Establish a routine maintenance activity to inspect and clean up any new visible paint chips, and repair areas of newly damaged paint. This activity should be accomplished at least every twelve (12) months and could be incorporated as part of the annual visual surveillance.

#### 4.8.2 Operations and Maintenance Program Recommendations

##### **Program Content**

A comprehensive lead Operations and Maintenance Program for the day-to-day maintenance of the Riverton Terrace Family site should be implemented.

A lead O&M Program should contain the following:

- Policy Statement & Summary
- Program Administration and Resources
- Known or Presumed Lead Hazard Sources
- Periodic Visual Surveillance (12 months or unit turnover)
  - Prompt and systematic repair of damaged paint
- Maintenance Practices
  - Designated personnel
  - Personnel training
  - Work protection and equipment
  - Work order system
  - Work practices
  - Prohibited activities
  - Occupant protection plan
- Cleaning Practices
- Occupant/Tenant Relations
  - Provide basic generic lead-based paint hazard information as per regulations
  - Notify tenants of lead-based paint operations

- Provide system for tenants to report deteriorating paint
- Recordkeeping

Lead O&M activities are limited to small-scale projects relevant to the general operation and maintenance of the apartment units. A lead O&M program requires standard work practices for maintenance activities that may disturb lead paint of building components and lead contaminated soil or dust. All work operations that disturb lead paint require controls designed to minimize the generation of lead dust/debris and protect the occupants and workers.

The HUD Guidelines classify common maintenance tasks in “high risk” and “low risk” work operations. High risk operations typically disturb more than two square feet of lead-based paint per room, e.g., surface preparation with sanding or scraping, plastering or wall repair, carpet replacement, or welding on painted surfaces. Low risk operations include windowpane replacement, grounds keeping, and door repair. See the table below for the HUD summary of work operations.

#### **Low- and High-Risk Job Designations for Surfaces Known or Suspected to Contain Lead-Based Paint**

<b>Job Description</b>	<b>Low Risk</b>	<b>High Risk*</b>
Repainting (includes surface preparation)		X
Plastering or wall repair		X
Window repair	X	
Windowpane or glass replacement only	X	
Water or moisture damage repair (repainting and plumbing)		X
Door repair	X	
Building component replacement		X
Welding on painted surfaces		X
Door lock repair or replacement	X	
Electrical fixture repair	X	
Floor refinishing		X
Carpet replacement		X
Grounds keeping	X	
Radiator leak repair	X	
Baluster repair (metal)		X
Demolition		X

\* High-risk jobs typically disturb more than 2 square feet per room. If these jobs disturb less than 2 square feet, then they can be considered low-risk.

4.8.3 Permit Requirements for Removing or Stabilizing Lead-Based Paint  
Washington Administrative Code 365-230 requires a 5-day notification for any person or firm performing work that falls under the definition of abatement listed in WAC 365-230 *and* meets one or more of the following:

- the structure you are working on is target housing, a residential structure built prior to 1978
- the structure you are working on is a child-occupied facility built prior to 1978
- you are abating soil on the property of a child-occupied facility or target housing

See: [www.cted.wa.gov/lead/](http://www.cted.wa.gov/lead/)

### ***Model Program***

The best model program currently available for purchase is the National Institute of Building Sciences (NIBS), Operations and Maintenance Work Practices Manual for Homes and Buildings, May 1995, at \$125.00. This technical procedure manual provides detailed guidance to homeowners, custodial and O&M workers, maintenance supervisors, and building owners for performing work where lead-based paint is, or may be, present. It also provides practical, specific guidance to laws and regulations. The O&M Manual addresses a range of situations in which operations and maintenance activities are routinely performed in buildings whether or not lead is present. It addresses three different levels of precaution, which may be warranted by specific building conditions and by the amount of potentially lead-contaminated dust and debris which may be generated by the activities.

The manual also contains model sample documentation forms, e.g., work order and authorization, hazard evaluation, and tenant notification forms, which can be modified and integrated into existing facilities management record keeping systems. The O&M Manual was developed by NIBS in cooperation with the U. S. Department of Housing and Urban Development.

### ***Training***

A training program for maintenance personnel in accordance with the minimum OSHA requirements should be implemented. OSHA has worker protection requirements that must be met by the employer if there is the potential for occupational exposure to lead at any level. Unlike the EPA and HUD, OSHA currently does not specify a minimum level, or concentration of lead in paint that triggers the requirements.

The maintenance staff, i.e., painters, plumbers, electricians, carpenters, etc., should be trained in safe work practices for lead paint. A training program should address worker safety (OSHA) and occupant protection (EPA and HUD) as well as provide lead safe work procedures. There are a variety of training courses designed to provide this information depending on the scope of the Operations and Maintenance Program.

#### **1. Lead-Based Paint Visual Assessment Training**

An online training course designed to assist maintenance personnel in the recognition of paint conditions and the identification of paint problems. The course takes approximately two hours to complete. The entire course is contained in the following seven downloadable files located at:  
<http://www.hud.gov/lea/training/visualassessment/h00100.htm>

#### **2. Interim Controls / Lead-Safe Work Practices and Awareness Training**

This training was developed by MIRCON, Inc. (CONNOR Environmental Services and Engineering Assessments) with support from HUD. This course teaches individuals how to perform interim controls, paint stabilization ongoing maintenance and standard treatments in accordance with the Lead Safe Housing Rule. The entire course is contained in the following seven downloadable files located at:

<http://www.hud.gov/lea/training/leadsafewp/leadsafewp.html>

**3. Lead-Based Paint Maintenance Training program (O&M LSWP):**

Repair and maintenance workers who do painting and minor repairs. This 8-hour course is offered regionally and the fees are underwritten by HUD. Pre-registration is required to attend these courses. Announcements of the schedule and location can be found at:

<http://www.leadlisting.org/leadlisting/MasterTrainingList.nsf/Main?OpenPage>

**4. “Addressing Lead-Based Paint Hazards During Renovation, Remodeling and Rehabilitation in Federally Owned and Assisted Housing”**

This is HUD’s Adaptation of EPA Model Curriculum for Remodelers and Renovators. This one-day training program designed to teach lead-safe work practices for people doing remodeling, renovating and general rehabilitation workers such as dry wallers, painters and carpenters. It is HUD’s adaptation of the course developed by HUD and the National Association of the Remodeling Industry (NARI). This curriculum is available in MS PowerPoint for download and delivery. This course is available from the HUD Office of Healthy Homes and Lead Hazard Control web site.

[http://www.hud.gov/lea/training/rr/HUD\\_RR\\_COURSE.html](http://www.hud.gov/lea/training/rr/HUD_RR_COURSE.html)

**5. “Lead-Based Paint Maintenance Training: Work Smart, Work Wet, Work Clean to Work Lead-Safe”**

This course teaches lead-safe work procedures specifically for maintenance workers and supervisors working in multifamily properties that have or may contain lead-based paint. This curriculum available for purchase.

Contact:

National Environmental Training Association (NETA)

3020 East Camelback

Phoenix, Arizona 85016

602.956.6099

**TAB 1**

---

**Lab Reports and Sample Data Sheets**

XRF Data Sheets

XRF Field Notes

Dust Wipe Sample Analyses

Soil Sample Analyses

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
1			Test			0	PASS
2			Test			0	Negative
<b>Building B</b>							
<b>Unit 14468</b>							
3	Living room	Ceiling	Gypsum wallboard	White	Intact	0	Negative
4	Living room	Wall A	Gypsum wallboard	White	Intact	0	Negative
5	Living room	Wall B	Gypsum wallboard	White	Intact	0	Negative
6	Living room	Wall C	Gypsum wallboard	White	Intact	0	Negative
7	Living room	Wall D	Gypsum wallboard	White	Intact	0	Negative
8	Living room	Covebase	Wood	Brown	Intact	0	Negative
9	Living room	Sill	Wood	White	Intact	0	Negative
10	Kitchen	Ceiling	Gypsum wallboard	White	Intact	0	Negative
11	Kitchen	Wall A	Gypsum wallboard	White	Intact	0	Negative
12	Kitchen	Wall B	Gypsum wallboard	White	Intact	0	Negative
13	Kitchen	Wall C	Gypsum wallboard	White	Intact	0	Negative
14	Kitchen	Wall D	Gypsum wallboard	White	Intact	0	Negative
15	Kitchen	Cabinet	Wood	Brown	Intact	0	Negative
16	Laundry room	Ceiling	Gypsum wallboard	White	Intact	0	Negative
17	Laundry room	Wall A	Gypsum wallboard	White	Intact	0	Negative
18	Laundry room	Wall B	Gypsum wallboard	White	Intact	0	Negative
19	Laundry room	Wall C	Gypsum wallboard	White	Intact	0	Negative
20	Laundry room	Wall D	Gypsum wallboard	White	Intact	0	Negative
21	Laundry room	Sill	Wood	White	Intact	0	Negative
22	Laundry room	Door	Wood	White	Intact	0	Negative
23	Laundry room	Door Frame	Wood	White	Intact	0	Negative
24	Foyer	Door	Metal	White	Intact	0	Negative
25	Foyer	Frame	Wood	Brown	Intact	0	Negative
26	Stairwell	Ceiling	Gypsum wallboard	White	Intact	0	Negative
27	Stairwell	Wall A	Gypsum wallboard	White	Intact	0	Negative
28	Stairwell	Wall B	Gypsum wallboard	White	Intact	0	Negative
29	Stairwell	Wall C	Gypsum wallboard	White	Intact	0	Negative
30	Stairwell	Wall D	Gypsum wallboard	White	Intact	0	Negative
31	Stairwell	Rail	Wood	White	Intact	0	Negative
32	Bedroom 1	Ceiling	Gypsum wallboard	White	Intact	0	Negative
33	Bedroom 1	Wall A	Gypsum wallboard	White	Intact	0	Negative
34	Bedroom 1	Wall B	Gypsum wallboard	White	Intact	0	Negative
35	Bedroom 1	Wall C	Gypsum wallboard	White	Intact	0	Negative
36	Bedroom 1	Wall D	Gypsum wallboard	White	Intact	0	Negative
37	Bedroom 1	Sill	Wood	White	Intact	0	Negative
38	Bedroom 1	Closet Roll Door	Wood	Brown	Intact	0	Negative
39	Bedroom 1	Door	Wood	Brown	Intact	0	Negative
40	Bedroom 1	Door Frame	Wood	Brown	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
41	1/2 Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
42	1/2 Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
43	1/2 Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
44	1/2 Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
45	1/2 Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
46	1/2 Bathroom	Door	Wood	Brown	Intact	0	Negative
47	1/2 Bathroom	Door Frame	Wood	Brown	Intact	0	Negative
48	Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
49	Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
50	Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
51	Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
52	Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
53	Bathroom	Door	Wood	Brown	Intact	0	Negative
54	Bathroom	Door Frame	Wood	Brown	Intact	0	Negative
55	Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
56	Bedroom 2	Ceiling	Gypsum wallboard	White	Intact	0	Negative
57	Bedroom 2	Wall A	Gypsum wallboard	White	Intact	0	Negative
58	Bedroom 2	Wall B	Gypsum wallboard	White	Intact	0	Negative
59	Bedroom 2	Wall C	Gypsum wallboard	White	Intact	0	Negative
60	VOID						
61	Bedroom 2	Wall D	Gypsum wallboard	White	Intact	0	Negative
62	Bedroom 2	Closet Roll Door	Wood	Brown	Intact	0	Negative
63	VOID						
64	Bedroom 2	Door	Wood	Brown	Intact	0	Negative
65	Bedroom 2	Door Frame	Wood	Brown	Intact	0	Negative
66	Bedroom 2	Sill	Wood	White	Intact	0	Negative
67	Bedroom 3	Ceiling	Gypsum wallboard	White	Intact	0	Negative
68	Bedroom 3	Wall A	Gypsum wallboard	White	Intact	0	Negative
69	Bedroom 3	Wall B	Gypsum wallboard	White	Intact	0	Negative
70	Bedroom 3	Wall C	Gypsum wallboard	White	Intact	0	Negative
71	Bedroom 3	Wall D	Gypsum wallboard	White	Intact	0	Negative
72	Bedroom 3	Sill	Wood	White	Intact	0	Negative
73	Bedroom 3	Door	Wood	Brown	Intact	0	Negative
74	Bedroom 3	Door Frame	Wood	Brown	Intact	0	Negative
75	Bedroom 3	Closet Roll Door	Wood	Brown	Intact	0	Negative
76	Hall	Ceiling	Gypsum wallboard	White	Intact	0	Negative
77	Hall	Wall B	Gypsum wallboard	White	Intact	0	Negative
78	Hall	Wall D	Gypsum wallboard	White	Intact	0	Negative
79	Hall	Covebase	Wood	Brown	Intact	0	Negative
<b>Unit 14466</b>							
80	Living room	Ceiling	Gypsum wallboard	White	Intact	0	Negative
81	Living room	Wall A	Gypsum wallboard	White	Intact	0.05	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
82	Living room	Wall B	Gypsum wallboard	White	Intact	0.04	Negative
83	Living room	Wall C	Gypsum wallboard	White	Intact	0	Negative
84	Living room	Wall D	Gypsum wallboard	White	Intact	0	Negative
85	Living room	Covebase	MDF	White	Intact	0	Negative
86	Living room	Sill	Wood	White	Intact	0	Negative
87	Kitchen	Ceiling	Gypsum wallboard	White	Intact	0	Negative
88	Kitchen	Wall A	Gypsum wallboard	White	Intact	0	Negative
89	Kitchen	Wall B	Gypsum wallboard	White	Intact	0	Negative
90	Kitchen	Wall C	Gypsum wallboard	White	Intact	0	Negative
91	Kitchen	Wall D	Gypsum wallboard	White	Intact	0	Negative
92	Kitchen	Cabinet	Wood	White	Intact	0	Negative
93	Laundry room	Ceiling	Gypsum wallboard	White	Intact	0	Negative
94	Laundry room	Wall A	Gypsum wallboard	White	Intact	0	Negative
95	Laundry room	Wall B	Gypsum wallboard	White	Intact	0	Negative
96	Laundry room	Wall C	Gypsum wallboard	White	Intact	0	Negative
97	Laundry room	Wall D	Gypsum wallboard	White	Intact	0	Negative
98	Laundry room	Sill	Wood	White	Intact	0.02	Negative
99	Laundry room	Door	Wood	Brown	Intact	0.01	Negative
100	Laundry room	Door Frame	MDF	Brown	Intact	0.02	Negative
101	Bedroom 1	Ceiling	Gypsum wallboard	White	Intact	0	Negative
102	Bedroom 1	Wall A	Gypsum wallboard	White	Intact	0	Negative
103	Bedroom 1	Wall B	Gypsum wallboard	White	Intact	0	Negative
104	Bedroom 1	Wall C	Gypsum wallboard	White	Intact	0	Negative
105	Bedroom 1	Wall D	Gypsum wallboard	White	Intact	0.19	Negative
106	Bedroom 1	Sill	Wood	White	Intact	0	Negative
107	Bedroom 1	Door	Wood	Brown	Intact	0	Negative
108	Bedroom 1	Door Frame	MDF	Brown	Intact	0	Negative
109	Bedroom 1	Covebase	MDF	Brown	Intact	0	Negative
110	Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
111	Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
112	Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
113	Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
114	Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
115	Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
116	Bathroom	Door	Wood	Brown	Intact	0	Negative
117	Bathroom	Door Frame	Wood	Brown	Intact	0	Negative
118	1/2 Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
119	1/2 Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
120	1/2 Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
121	1/2 Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
122	1/2 Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
123	1/2 Bathroom	Door	Wood	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
124	1/2 Bathroom	Door Frame	MDF	White	Intact	0.02	Negative
125	Bedroom 2	Ceiling	Gypsum wallboard	White	Intact	0.03	Negative
126	Bedroom 2	Wall A	Gypsum wallboard	White	Intact	0	Negative
127	Bedroom 2	Wall B	Gypsum wallboard	White	Intact	0	Negative
128	Bedroom 2	Wall C	Gypsum wallboard	White	Intact	0.03	Negative
129	Bedroom 2	Wall D	Gypsum wallboard	White	Intact	0	Negative
130	Bedroom 2	Sill	Wood	White	Intact	0	Negative
131	Bedroom 2	Closet Roll Door	Wood	Brown	Intact	0	Negative
132	Bedroom 2	Door	Wood	Brown	Intact	0	Negative
133	Bedroom 2	Door Frame	MDF	Brown	Intact	0	Negative
134	Bedroom 3	Ceiling	Gypsum wallboard	White	Intact	0	Negative
135	Bedroom 3	Wall A	Gypsum wallboard	White	Intact	0	Negative
136	Bedroom 3	Wall B	Gypsum wallboard	White	Intact	0	Negative
137	Bedroom 3	Wall C	Gypsum wallboard	White	Intact	0	Negative
138	Bedroom 3	Wall D	Gypsum wallboard	White	Intact	0	Negative
139	Bedroom 3	Sill	Wood	White	Intact	0	Negative
140	Bedroom 3	Closet Roll Door	Wood	Brown	Intact	0	Negative
141	Bedroom 3	Door	Wood	Brown	Intact	0	Negative
142	Bedroom 3	Door Frame	MDF	Brown	Intact	0	Negative
143	Hall	Ceiling	Gypsum wallboard	White	Intact	0	Negative
144	Hall	Wall B	Gypsum wallboard	White	Intact	0.02	Negative
145	Hall	Wall D	Gypsum wallboard	White	Intact	0.04	Negative
146	Stairwell	Rail	Wood	Brown	Intact	0.02	Negative
147	Foyer	Ceiling	Gypsum wallboard	White	Intact	0.01	Negative
148	Foyer	Wall B	Gypsum wallboard	White	Intact	0.04	Negative
149	Foyer	Wall D	Gypsum wallboard	White	Intact	0.02	Negative
150	Foyer	Door	Metal	White	Intact	0.07	Negative
151	Foyer	Door Frame	MDF	Brown	Intact	0	Negative
<b>Unit 14464</b>							
152	Living room	Ceiling	Gypsum wallboard	White	Intact	0	Negative
153	Living room	Wall A	Gypsum wallboard	White	Intact	0	Negative
154	Living room	Wall B	Gypsum wallboard	White	Intact	0	Negative
155	Living room	Wall C	Gypsum wallboard	White	Intact	0	Negative
156	Living room	Wall D	Gypsum wallboard	White	Intact	0	Negative
157	Living room	Covebase	MDF	Brown	Intact	0	Negative
158	Living room	Sill	Wood	White	Intact	0	Negative
159	Kitchen	Ceiling	Gypsum wallboard	White	Intact	0	Negative
160	Kitchen	Wall A	Gypsum wallboard	White	Intact	0	Negative
161	Kitchen	Wall B	Gypsum wallboard	White	Intact	0	Negative
162	Kitchen	Wall C	Gypsum wallboard	White	Intact	0	Negative
163	Kitchen	Wall D	Gypsum wallboard	White	Intact	0	Negative
164	Kitchen	Cabinet	Wood	Brown	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
165	Laundry room	Ceiling	Gypsum wallboard	White	Intact	0	Negative
166	Laundry room	Wall A	Gypsum wallboard	White	Intact	0	Negative
167	Laundry room	Wall B	Gypsum wallboard	White	Intact	0	Negative
168	Laundry room	Wall C	Gypsum wallboard	White	Intact	0	Negative
169	Laundry room	Wall D	Gypsum wallboard	White	Intact	0	Negative
170	Laundry room	Sill	Wood	White	Intact	0	Negative
171	Laundry room	Door	Wood	Brown	Intact	0	Negative
172	Laundry room	Door Frame	MDF	Brown	Intact	0	Negative
173	Bedroom 1	Ceiling	Gypsum wallboard	White	Intact	0	Negative
174	Bedroom 1	Wall A	Gypsum wallboard	White	Intact	0	Negative
175	Bedroom 1	Wall B	Gypsum wallboard	White	Intact	0	Negative
176	Bedroom 1	Wall C	Gypsum wallboard	White	Intact	0	Negative
177	Bedroom 1	Wall D	Gypsum wallboard	White	Intact	0	Negative
178	Bedroom 1	Sill	Wood	White	Intact	0	Negative
179	Bedroom 1	Door	Wood	Brown	Intact	0	Negative
180	Bedroom 1	Door Frame	MDF	Brown	Intact	0	Negative
181	Bedroom 1	Closet Roll Door	Wood	Brown	Intact	0	Negative
182	1/2 Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
183	1/2 Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
184	1/2 Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
185	1/2 Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
186	1/2 Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
187	1/2 Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
188	1/2 Bathroom	Door	Wood	Brown	Intact	0	Negative
189	1/2 Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
190	Bedroom 2	Ceiling	Gypsum wallboard	White	Intact	0	Negative
191	Bedroom 2	Wall A	Gypsum wallboard	White	Intact	0	Negative
192	Bedroom 2	Wall B	Gypsum wallboard	White	Intact	0	Negative
193	Bedroom 2	Wall C	Gypsum wallboard	White	Intact	0	Negative
194	Bedroom 2	Wall D	Gypsum wallboard	White	Intact	0	Negative
195	Bedroom 2	Sill	Wood	White	Intact	0	Negative
196	Bedroom 2	Closet Roll Door	Wood	Brown	Intact	0	Negative
197	Bedroom 2	Door	Wood	Brown	Intact	0	Negative
198	Bedroom 2	Door Frame	MDF	Brown	Intact	0	Negative
199	Bedroom 3	Ceiling	Gypsum wallboard	White	Intact	0.01	Negative
200	Bedroom 3	Wall A	Gypsum wallboard	White	Intact	0	Negative
201	Bedroom 3	Wall B	Gypsum wallboard	White	Intact	0	Negative
202	Bedroom 3	Wall C	Gypsum wallboard	White	Intact	0	Negative
203	Bedroom 3	Wall D	Gypsum wallboard	White	Intact	0.09	Negative
204	Bedroom 3	Sill	Wood	White	Intact	0	Negative
205	Bedroom 3	Closet Roll Door	Wood	Brown	Intact	0	Negative
206	Bedroom 3	Door	Wood	Brown	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
207	Bedroom 3	Door Frame	Wood	Brown	Intact	0	Negative
208	Hall	Ceiling	Gypsum wallboard	White	Intact	0	Negative
209	Hall	Wall B	Gypsum wallboard	White	Intact	0	Negative
210	Hall	Wall D	Gypsum wallboard	White	Intact	0	Negative
211	Stairwell	Wall A	Gypsum wallboard	White	Intact	0	Negative
212	Stairwell	Wall C	Gypsum wallboard	White	Intact	0	Negative
213	Stairwell	Rail	Wood	Brown	Intact	0	Negative
214	Foyer	Ceiling	Gypsum wallboard	White	Intact	0	Negative
215	Foyer	Wall B	Gypsum wallboard	White	Intact	0	Negative
216	Foyer	Wall D	Gypsum wallboard	White	Intact	0	Negative
217	Foyer	Door	Metal	White	Intact	0	Negative
218	Foyer	Door Frame	MDF	Brown	Intact		PASS
<b>Building C</b>							
<b>Unit 14458</b>							
219	Living room	Ceiling	Gypsum wallboard	White	Intact	0	Negative
220	Living room	Wall A	Gypsum wallboard	White	Intact	0	Negative
221	Living room	Wall B	Gypsum wallboard	White	Intact	0	Negative
222	Living room	Wall C	Gypsum wallboard	White	Intact	0	Negative
223	Living room	Wall D	Gypsum wallboard	White	Intact	0	Negative
224	Living room	Sill	Wood	White	Intact	0	Negative
225	Kitchen	Ceiling	Gypsum wallboard	White	Intact	0	Negative
226	Kitchen	Wall A	Gypsum wallboard	White	Intact	0	Negative
227	Kitchen	Wall B	Gypsum wallboard	White	Intact	0	Negative
228	Kitchen	Wall C	Gypsum wallboard	White	Intact	0	Negative
229	Kitchen	Wall D	Gypsum wallboard	White	Intact	0	Negative
230	Kitchen	Cabinet	Wood	Brown	Intact	0	Negative
231	Kitchen	Sill	Wood	White	Intact	0	Negative
232	Foyer	Door	Metal	White	Intact	0	Negative
233	Foyer	Door Frame	MDF	Brown	Intact	0	Negative
234	Foyer	Ceiling	Gypsum wallboard	White	Intact	0	Negative
235	Foyer	Wall A	Gypsum wallboard	White	Intact	0	Negative
236	1st Floor 1/2 Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
237	1st Floor 1/2 Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
238	1st Floor 1/2 Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
239	1st Floor 1/2 Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
240	1st Floor 1/2 Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
241	1st Floor 1/2 Bathroom	Sill	Wood	White	Intact	0	Negative
242	1st Floor 1/2 Bathroom	Door	Wood	Brown	Intact	0.02	Negative
243	1st Floor 1/2 Bathroom	Door Frame	Wood	Brown	Intact	0	Negative
244	Bedroom 1	Ceiling	Gypsum wallboard	White	Intact	0	Negative
245	Bedroom 1	Wall A	Gypsum wallboard	White	Intact	0	Negative
246	Bedroom 1	Wall B	Gypsum wallboard	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
247	Bedroom 1	Wall C	Gypsum wallboard	White	Intact	0	Negative
248	Bedroom 1	Wall D	Gypsum wallboard	White	Intact	0	Negative
249	Bedroom 1	Sill	Wood	White	Intact	0	Negative
250	Bedroom 1	Closet Roll Door	Wood	Brown	Intact	0	Negative
251	Bedroom 1	Door	Wood	Brown	Intact	0	Negative
252	Bedroom 1	Door Frame	MDF	Brown	Intact	0	Negative
253	VOID						
254	Bedroom 1	Covebase	MDF	Brown	Intact	0	Negative
255	Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
256	Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
257	Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
258	Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
259	Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
260	Bathroom	Door	Wood	Brown	Intact	0	Negative
261	Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
262	Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
263	Bedroom 2	Ceiling	Gypsum wallboard	White	Intact	0	Negative
264	Bedroom 2	Wall A	Gypsum wallboard	White	Intact	0	Negative
265	Bedroom 2	Wall B	Gypsum wallboard	White	Intact	0	Negative
266	Bedroom 2	Wall C	Gypsum wallboard	White	Intact	0	Negative
267	Bedroom 2	Wall D	Gypsum wallboard	White	Intact	0	Negative
268	Bedroom 2	Closet Roll Door	Wood	Brown	Intact	0	Negative
269	Bedroom 2	Sill	Wood	Brown	Intact	0	Negative
270	Bedroom 2	Door	Wood	Brown	Intact	0	Negative
271	Bedroom 2	Door Frame	MDF	Brown	Intact	0	Negative
272	Hall	Ceiling	Gypsum wallboard	White	Intact	0	Negative
273	Hall	Wall B	Gypsum wallboard	White	Intact	0	Negative
274	Hall	Wall D	Gypsum wallboard	White	Intact	0	Negative
275	Hall	Covebase	MDF	Brown	Intact	0	Negative
276	Stairwell	Wall B	Gypsum wallboard	White	Intact	0	Negative
277	Stairwell	Wall D	Gypsum wallboard	White	Intact	0	Negative
278	Stairwell	Rail	Gypsum wallboard	Brown	Intact	0	Negative
279	Stairwell	Door	Metal	White	Intact	0	Negative
<b>Exterior Storage Unit</b>							
<b>Unit 14454</b>							
280	Living room	Ceiling	Gypsum wallboard	White	Intact	0.02	Negative
281	Living room	Wall A	Gypsum wallboard	White	Intact	0	Negative
282	Living room	Wall B	Gypsum wallboard	White	Intact	0	Negative
283	Living room	Wall C	Gypsum wallboard	White	Intact	0	Negative
284	Living room	Wall D	Gypsum wallboard	White	Intact	0	Negative
285	Living room	Sill	Wood	White	Intact	0	Negative
286	Kitchen	Ceiling	Gypsum wallboard	White	Intact	0	Negative
287	Kitchen	Wall A	Gypsum wallboard	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
288	Kitchen	Wall B	Gypsum wallboard	White	Intact	0	Negative
289	VOID					0	
290	Kitchen	Wall C	Gypsum wallboard	White	Intact	0	Negative
291	Kitchen	Wall D	Gypsum wallboard	White	Intact	0	Negative
292	Kitchen	Sill	Wood	White	Intact	0	Negative
293	Kitchen	Cabinet	Wood	Brown	Intact	0	Negative
294	1/2 Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
295	1/2 Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
296	1/2 Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
297	1/2 Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
298	1/2 Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
299	1/2 Bathroom	Sill	Wood	White	Intact	0	Negative
300	1/2 Bathroom	Door	Wood	Brown	Intact	0	Negative
301	1/2 Bathroom	Door Frame	Wood	Brown	Intact	0	Negative
302	Bedroom 1	Ceiling	Gypsum wallboard	White	Intact	0	Negative
303	Bedroom 1	Wall A	Gypsum wallboard	White	Intact	0	Negative
304	Bedroom 1	Wall B	Gypsum wallboard	White	Intact	0	Negative
305	Bedroom 1	Wall C	Gypsum wallboard	White	Intact	0	Negative
306	Bedroom 1	Wall D	Gypsum wallboard	White	Intact	0	Negative
307	Bedroom 1	Sill	Wood	White	Intact	0	Negative
308	Bedroom 1	Closet Roll Door	Wood	Brown	Intact	0	Negative
309	Bedroom 1	Door	Wood	Brown	Intact	0	Negative
310	Bedroom 1	Door Frame	Wood	Brown	Intact	0	Negative
311	Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
312	Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
313	Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
314	Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
315	Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
316	Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
317	Bathroom	Door	Wood	Brown	Intact	0	Negative
318	Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
319	Bedroom 2	Ceiling	Gypsum wallboard	White	Intact	0	Negative
320	Bedroom 2	Wall A	Gypsum wallboard	White	Intact	0	Negative
321	Bedroom 2	Wall B	Gypsum wallboard	White	Intact	0	Negative
322	Bedroom 2	Wall C	Gypsum wallboard	White	Intact	0	Negative
323	Bedroom 2	Wall D	Gypsum wallboard	White	Intact	0	Negative
324	Bedroom 2	Sill	Wood	White	Intact	0	Negative
325	Bedroom 2	Closet Roll Door	Wood	Brown	Intact	0	Negative
326	Bedroom 2	Door	Wood	Brown	Intact	0	Negative
327	Bedroom 2	Door Frame	Wood	Brown	Intact	0	Negative
328	Hall	Ceiling	Gypsum wallboard	White	Intact	0	Negative
329	Hall	Wall B	Gypsum wallboard	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
330	Hall	Wall D	Gypsum wallboard	White	Intact	0	Negative
331	Hall	Covebase	MDF	Brown	Intact	0	Negative
332	Foyer	Ceiling	Gypsum wallboard	White	Intact	0	Negative
333	Foyer	Wall B	Gypsum wallboard	White	Intact	0	Negative
334	Foyer	Wall D	Gypsum wallboard	White	Intact	0	Negative
335	Foyer	Door	Metal	White	Intact	0	Negative
336	Foyer	Door Frame	MDF	Brown	Intact	0	Negative
337							PASS
<b>Unit 14452</b>							
338	Living room	Ceiling	Gypsum wallboard	White	Intact	0	Negative
339	Living room	Wall A	Gypsum wallboard	White	Intact	0	Negative
340	Living room	Wall B	Gypsum wallboard	White	Intact	0	Negative
341	Living room	Wall C	Gypsum wallboard	White	Intact	0	Negative
342	Living room	Wall D	Gypsum wallboard	White	Intact	0	Negative
343	Living room	Sill	Wood	White	Intact	0	Negative
344	Kitchen	Ceiling	Gypsum wallboard	White	Intact	0	Negative
345	Kitchen	Wall A	Gypsum wallboard	White	Intact	0	Negative
346	Kitchen	Wall B	Gypsum wallboard	White	Intact	0	Negative
347	Kitchen	Wall C	Gypsum wallboard	White	Intact	0	Negative
348	Kitchen	Wall D	Gypsum wallboard	White	Intact	0	Negative
349	Kitchen	Cabinet	Wood	Brown	Intact	0	Negative
350	1/2 Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
351	1/2 Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
352	1/2 Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
353	1/2 Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
354	1/2 Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
355	1/2 Bathroom	Sill	Wood	Brown	Intact	0	Negative
356	1/2 Bathroom	Door	Wood	Brown	Intact	0	Negative
357	1/2 Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
358	Bedroom 1	Ceiling	Gypsum wallboard	White	Intact	0	Negative
359	Bedroom 1	Wall A	Gypsum wallboard	White	Intact	0	Negative
360	Bedroom 1	Wall B	Gypsum wallboard	White	Intact	0	Negative
361	Bedroom 1	Wall C	Gypsum wallboard	White	Intact	0	Negative
362	Bedroom 1	Wall D	Gypsum wallboard	White	Intact	0	Negative
363	Bedroom 1	Sill	Wood	White	Intact	0	Negative
364	Bedroom 1	Closet Roll Door	Wood	Brown	Intact	0	Negative
365	Bedroom 1	Door	Wood	Brown	Intact	0	Negative
366	Bedroom 1	Door Frame	MDF	Brown	Intact	0	Negative
367	Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
368	Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
369	Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
370	Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
371	Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
372	Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
373	Bathroom	Door	Wood	Brown	Intact	0	Negative
374	Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
375	Bedroom 2	Ceiling	Gypsum wallboard	White	Intact	0	Negative
376	Bedroom 2	Wall A	Gypsum wallboard	White	Intact	0	Negative
377	Bedroom 2	Wall B	Gypsum wallboard	White	Intact	0	Negative
378	Bedroom 2	Wall C	Gypsum wallboard	White	Intact	0	Negative
379	Bedroom 2	Wall D	Gypsum wallboard	White	Intact	0	Negative
380	Bedroom 2	Sill	Wood	White	Intact	0	Negative
381	Bedroom 2	Door	Wood	Brown	Intact	0	Negative
382	Bedroom 2	Door Frame	MDF	Brown	Intact	0	Negative
383	Bedroom 2	Covebase	MDF	Brown	Intact	0	Negative
384	Hall	Ceiling	Gypsum wallboard	White	Intact	0	Negative
385	Hall	Wall B	Gypsum wallboard	White	Intact	0	Negative
386	Hall	Wall C	Gypsum wallboard	White	Intact	0	Negative
387	Hall	Wall D	Gypsum wallboard	White	Intact	0	Negative
388	Hall	Closet Roll Door	Wood	Brown	Intact	0	Negative
389	Hall	Door Frame	MDF	Brown	Intact	0	Negative
390	Hall	Covebase	MDF	Brown	Intact	0	Negative
391	Foyer	Ceiling	Gypsum wallboard	White	Intact	0	Negative
392	Foyer	Wall B	Gypsum wallboard	White	Intact	0	Negative
393	Foyer	Wall D	Gypsum wallboard	White	Intact	0	Negative
394	Foyer	Door	Metal	White	Intact	0	Negative
395	Foyer	Door Frame	MDF	Brown	Intact	0	Negative
396	Storage Unit Door	Door	Metal	White	Intact	0	Negative
397	<b>Unit 11450</b>						
398	Living room	Ceiling	Gypsum wallboard	White	Intact	0	Negative
399	Living room	Wall A	Gypsum wallboard	White	Intact	0	Negative
400	Living room	Wall B	Gypsum wallboard	White	Intact	0	Negative
401	Living room	Wall C	Gypsum wallboard	White	Intact	0	Negative
402	Living room	Wall D	Gypsum wallboard	White	Intact	0	Negative
403	Living room	Sill	Wood	White	Intact	0	Negative
404	Living room	Covebase	MDF	Brown	Intact	0	Negative
405	Kitchen	Ceiling	Gypsum wallboard	White	Intact	0	Negative
	Kitchen	Wall A	Gypsum wallboard	White	Intact	0	Negative
406	Kitchen	Wall B	Gypsum wallboard	White	Intact	0	Negative
407	Kitchen	Wall C	Gypsum wallboard	White	Intact	0	Negative
408	Kitchen	Wall D	Gypsum wallboard	White	Intact	0	Negative
409	Kitchen	Cabinet	Gypsum wallboard	White	Intact	0	Negative
410	Kitchen	Sill	Wood	Brown	Intact	0	Negative
411	1/2 Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
412	1/2 Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
413	1/2 Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
414	1/2 Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
415	1/2 Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
416	1/2 Bathroom	Sill	Gypsum wallboard	White	Intact	0	Negative
417	1/2 Bathroom	Door	Wood	Brown	Intact	0	Negative
418	1/2 Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
419	Bedroom 1	Ceiling	Gypsum wallboard	White	Intact	0	Negative
420	Bedroom 1	Wall A	Gypsum wallboard	White	Intact	0	Negative
421	Bedroom 1	Wall B	Gypsum wallboard	White	Intact	0	Negative
422	Bedroom 1	Wall C	Gypsum wallboard	White	Intact	0	Negative
423	Bedroom 1	Wall D	Gypsum wallboard	White	Intact	0	Negative
424	Bedroom 1	Sill	Wood	White	Intact	0	Negative
425	Bedroom 1	Door	Wood	Brown	Intact	0	Negative
426	Bedroom 1	Door Frame	MDF	Brown	Intact	0	Negative
427	Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
428	Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
429	Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
430	Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
431	Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
432	Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
433	Bedroom 2	Ceiling	Gypsum wallboard	White	Intact	0	Negative
434	Bedroom 2	Wall A	Gypsum wallboard	White	Intact	0	Negative
435	Bedroom 2	Wall B	Gypsum wallboard	White	Intact	0	Negative
436	Bedroom 2	Wall C	Gypsum wallboard	White	Intact	0	Negative
437	Bedroom 2	Wall D	Gypsum wallboard	White	Intact	0	Negative
438	Bedroom 2	Closet Roll Door	Wood	Brown	Intact	0	Negative
439	Bedroom 2	Sill	Wood	White	Intact	0	Negative
440	Bedroom 2	Door	Wood	Brown	Intact	0	Negative
441	Bedroom 2	Door Frame	MDF	Brown	Intact	0	Negative
442	Bedroom 2	Covebase	MDF	Brown	Intact	0	Negative
443	Hall	Ceiling	Gypsum wallboard	White	Intact	0	Negative
444	Hall	Wall B	Gypsum wallboard	White	Intact	0	Negative
445	Hall	Wall D	Gypsum wallboard	White	Intact	0	Negative
446	Stairwell	Rail	Wood	Brown	Intact	0	Negative
447	Foyer	Ceiling	Gypsum wallboard	White	Intact	0	Negative
448	Foyer	Wall B	Gypsum wallboard	White	Intact	0	Negative
449	Foyer	Wall D	Gypsum wallboard	White	Intact	0	Negative
450	Foyer	Door	Metal	White	Intact	0	Negative
451	Foyer	Door Frame	MDF	Brown	Intact	0	Negative
452	Storage Unit Door	Door	Metal	White	Intact	0	Negative

Reading	Room	Component	Substrate Test	Color	Condition	Result (mg/sq cm)	Positive/Negative PASS
1	<b>Exterior</b>						
2	Building A	Foundation	Concrete	Tan	Intact	0	Negative
3	Building B	Foundation	Concrete	White	Intact	0	Negative
4	Building C	Foundation	Concrete	Yellow	Intact	0	Negative
5	Building D	Foundation	Concrete	Gray	Intact	0	Negative
6	Building G - Community Center	Foundation	Concrete	Yellow	Intact	0	Negative
7	Building E	Foundation	Concrete	Tan	Intact	0	Negative
8	Playground Equipment	Pole	Metal	Red	Intact	0	Negative
9	Playground Equipment	Pole	Metal	Red	Intact	0	Negative
10	Playground Equipment	Pole	Metal	Yellow	Intact	0	Negative
11	Playground Equipment	Handrail	Metal	Yellow	Intact	0	Negative
12	Playground Equipment	Walkway	Metal	Brown	Intact	0.03	Negative
13	Playground Equipment	Step	Metal	Red	Intact	0	Negative
14	Between Community Center & Playground	Fence	Metal	Black	Intact	0.05	Negative
15	Building A	Roof Drain Downspout	Metal	White	Intact	0	Negative
16	Building B	Roof Drain Downspout	Metal	White	Intact	0	Negative
17	Building C	Roof Drain Downspout	Metal	White	Intact	0	Negative
18	Building D	Roof Drain Downspout	Metal	White	Intact	0	Negative
19	Building G - Community Center	Roof Drain Downspout	Metal	White	Intact	0	Negative
20	Building E	Roof Drain Downspout	Metal	White	Intact	0	Negative
	<b>Building C</b>						
	<b>Unit 14448</b>						
21	Living room	Ceiling	Gypsum wallboard	White	Intact	0	Negative
22	Living room	Wall A	Gypsum wallboard	White	Intact	0	Negative
23	Living room	Wall B	Gypsum wallboard	White	Intact	0	Negative
24	Living room	Wall C	Gypsum wallboard	White	Intact	0	Negative
25	Living room	Wall D	Gypsum wallboard	White	Intact	0	Negative
26	Living room	Sill	Wood	White	Intact	0	Negative
27	Kitchen	Ceiling	Gypsum wallboard	White	Intact	0	Negative
28	Kitchen	Wall A	Gypsum wallboard	White	Intact	0	Negative
29	Kitchen	Wall B	Gypsum wallboard	White	Intact	0	Negative
30	Kitchen	Wall C	Gypsum wallboard	White	Intact	0	Negative
31	Kitchen	Wall D	Gypsum wallboard	White	Intact	0	Negative
32	Kitchen	Sill	Wood	White	Intact	0	Negative
33	Kitchen	Cabinet	Wood	Brown	Intact	0	Negative
34	1/2 Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
35	1/2 Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
36	1/2 Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
37	1/2 Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
38	1/2 Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
39	1/2 Bathroom	Sill	Wood	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
40	1/2 Bathroom	Door	Wood	Brown	Intact	0	Negative
41	1/2 Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
42	Bedroom 1	Ceiling	Gypsum wallboard	White	Intact	0	Negative
43	Bedroom 1	Wall A	Gypsum wallboard	White	Intact	0	Negative
44	Bedroom 1	Wall B	Gypsum wallboard	White	Intact	0	Negative
45	Bedroom 1	Wall C	Gypsum wallboard	White	Intact	0	Negative
46	Bedroom 1	Wall D	Gypsum wallboard	White	Intact	0	Negative
47	Bedroom 1	Sill	Wood	White	Intact	0	Negative
48	Bedroom 1	Closet Roll Door	Wood	Brown	Intact	0	Negative
49	Bedroom 1	Door	Wood	Brown	Intact	0	Negative
50	Bedroom 1	Door Frame	MDF	Brown	Intact	0	Negative
51	Bedroom 2	Ceiling	Gypsum wallboard	White	Intact	0	Negative
52	Bedroom 2	Wall A	Gypsum wallboard	White	Intact	0	Negative
53	Bedroom 2	Wall B	Gypsum wallboard	White	Intact	0	Negative
54	Bedroom 2	Wall C	Gypsum wallboard	White	Intact	0	Negative
55	Bedroom 2	Wall D	Gypsum wallboard	White	Intact	0	Negative
56	Bedroom 2	Closet Roll Door	Wood	Brown	Intact	0	Negative
57	Bedroom 2	Door	Wood	Brown	Intact	0	Negative
58	Bedroom 2	Door Frame	MDF	Brown	Intact	0	Negative
59	Bedroom 2	Sill	Wood	White	Intact	0	Negative
60	Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
61	Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
62	Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
63	Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
64	Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
65	Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
66	Bathroom	Door	Wood	Brown	Intact	0	Negative
67	Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
68	Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
69	Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
70	Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
71	Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
72	Bathroom	Closet Roll Door	Wood	Brown	Intact	0	Negative
73	Foyer	Ceiling	Gypsum wallboard	White	Intact	0	Negative
74	Foyer	Wall B	Gypsum wallboard	White	Intact	0	Negative
75	Foyer	Wall D	Gypsum wallboard	White	Intact	0	Negative
76	Foyer	Door	Gypsum wallboard	White	Intact	0	Negative
77	Foyer	Door Frame	MDF	Brown	Intact	0	Negative
78	Storage Unit Door	Door	Wood	White	Intact	0	Negative
<b>Building A</b>							
<b>Unit 14471</b>							
79	Living room	Ceiling	Gypsum wallboard	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
80	Living room	Wall A	Gypsum wallboard	White	Intact	0	Negative
81	Living room	Wall B	Gypsum wallboard	White	Intact	0	Negative
82	Living room	Wall C	Gypsum wallboard	White	Intact	0	Negative
83	Living room	Wall D	Gypsum wallboard	White	Intact	0	Negative
84	Living room	Sill	Wood	White	Intact	0	Negative
85	Living room	Covebase	MDF	Brown	Intact	0	Negative
86	Kitchen	Ceiling	Gypsum wallboard	White	Intact	0	Negative
87	Kitchen	Wall A	Gypsum wallboard	White	Intact	0	Negative
88	Kitchen	Wall B	Gypsum wallboard	White	Intact	0	Negative
89	Kitchen	Wall C	Gypsum wallboard	White	Intact	0	Negative
90	Kitchen	Wall D	Gypsum wallboard	White	Intact	0	Negative
91	Kitchen	Sill	Wood	White	Intact	0	Negative
92	Kitchen	Cabinet	Wood	Brown	Intact	0	Negative
93	Bedroom 1	Ceiling	Gypsum wallboard	White	Intact	0	Negative
94	Bedroom 1	Wall A	Gypsum wallboard	White	Intact	0	Negative
95	Bedroom 1	Wall B	Gypsum wallboard	White	Intact	0	Negative
96	Bedroom 1	Wall C	Gypsum wallboard	White	Intact	0	Negative
97	Bedroom 1	Wall D	Gypsum wallboard	White	Intact	0	Negative
98	Bedroom 1	Sill	Gypsum wallboard	White	Intact	0	Negative
99	Bedroom 1	Closet Roll Door	Wood	Brown	Intact	0	Negative
100	Bedroom 1	Door	Wood	Brown	Intact	0	Negative
101	Bedroom 1	Door Frame	MDF	Brown	Intact	0	Negative
102	Bedroom 1	Covebase	MDF	Brown	Intact	0	Negative
103	1/2 Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
104	1/2 Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
105	1/2 Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
106	1/2 Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
107	1/2 Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
108	1/2 Bathroom	Sill	Wood	White	Intact	0	Negative
109	1/2 Bathroom	Door	Wood	Brown	Intact	0	Negative
110	1/2 Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
111	1/2 Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
112	Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
113	Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
114	Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
115	Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
116	Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
117	Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
118	Bathroom	Door	Wood	Brown	Intact	0	Negative
119	Bathroom	Door Frame	Wood	Brown	Intact	0	Negative
120	VOID						
121	Bedroom 2	Ceiling	Gypsum wallboard	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
122	Bedroom 2	Wall A	Gypsum wallboard	White	Intact	0	Negative
123	Bedroom 2	Wall B	Gypsum wallboard	White	Intact	0	Negative
124	Bedroom 2	Wall C	Gypsum wallboard	White	Intact	0	Negative
125	Bedroom 2	Wall D	Gypsum wallboard	White	Intact	0	Negative
126	Bedroom 2	Sill	Wood	White	Intact	0	Negative
127	Bedroom 2	Closet Roll Door	Wood	Brown	Intact	0	Negative
128	Bedroom 2	Door	Wood	Brown	Intact	0	Negative
129	Bedroom 2	Door Frame	MDF	Brown	Intact	0	Negative
130	Bedroom 2	Covebase	MDF	Brown	Intact	0	Negative
131	Hall	Ceiling	Gypsum wallboard	White	Intact	0	Negative
132	Hall	Wall A	Gypsum wallboard	White	Intact	0	Negative
133	Hall	Wall C	Gypsum wallboard	White	Intact	0	Negative
134	Hall	Wall D	Gypsum wallboard	White	Intact	0	Negative
135	Stairwell	Ceiling	Gypsum wallboard	White	Intact	0	Negative
136	Stairwell	Rail	Wood	Brown	Intact	0	Negative
137	Foyer	Ceiling	Gypsum wallboard	White	Intact	0	Negative
138	Foyer	Wall A	Gypsum wallboard	White	Intact	0	Negative
139	Foyer	Wall D	Gypsum wallboard	White	Intact	0	Negative
140	Foyer	Wall D	Gypsum wallboard	White	Intact	0	Negative
141	Foyer	Door	Metal	White	Intact	0	Negative
142	Foyer	Door Frame	MDF	Brown	Intact	0	Negative
143	Storage Unit	Door	Metal	White	Intact	0	Negative
<b>Unit 14469</b>							
144	Living room	Ceiling	Gypsum wallboard	White	Intact	0	Negative
145	Living room	Wall A	Gypsum wallboard	White	Intact	0	Negative
146	Living room	Wall B	Gypsum wallboard	White	Intact	0	Negative
147	Living room	Wall C	Gypsum wallboard	White	Intact	0	Negative
148	Living room	Wall D	Gypsum wallboard	White	Intact	0	Negative
149	Living room	Sill	Wood	White	Intact	0	Negative
150	Kitchen	Ceiling	Gypsum wallboard	White	Intact	0	Negative
151	Kitchen	Wall A	Gypsum wallboard	White	Intact	0	Negative
152	Kitchen	Wall B	Gypsum wallboard	White	Intact	0	Negative
153	Kitchen	Wall C	Gypsum wallboard	White	Intact	0	Negative
154	Kitchen	Wall D	Gypsum wallboard	White	Intact	0	Negative
155	Kitchen	Sill	Wood	White	Intact	0	Negative
156	Kitchen	Cabinet	Wood	White	Intact	0	Negative
157	1/2 Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
158	1/2 Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
159	1/2 Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
160	1/2 Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
161	1/2 Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
162	1/2 Bathroom	Sill	Wood	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
163	1/2 Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
164	1/2 Bathroom	Door	Wood	Brown	Intact	0	Negative
165	1/2 Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
166	Bedroom 1	Ceiling	Gypsum wallboard	White	Intact	0	Negative
167	Bedroom 1	Wall A	Gypsum wallboard	White	Intact	0	Negative
168	Bedroom 1	Wall B	Gypsum wallboard	White	Intact	0	Negative
169	Bedroom 1	Wall C	Gypsum wallboard	White	Intact	0	Negative
170	Bedroom 1	Wall D	Gypsum wallboard	White	Intact	0	Negative
171	Bedroom 1	Sill	Wood	White	Intact	0	Negative
172	Bedroom 1	Closet Roll Door	Wood	Brown	Intact	0	Negative
173	Bedroom 1	Door	Wood	Brown	Intact	0	Negative
174	Bedroom 1	Door Frame	MDF	Brown	Intact	0	Negative
175	Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
176	Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
177	Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
178	Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
179	Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
180	Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
181	Bathroom	Door	Wood	Brown	Intact	0	Negative
182	Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
183	Bedroom 2	Ceiling	Gypsum wallboard	White	Intact	0	Negative
184	Bedroom 2	Wall A	Gypsum wallboard	White	Intact	0	Negative
185	Bedroom 2	Wall B	Gypsum wallboard	White	Intact	0	Negative
186	Bedroom 2	Wall C	Gypsum wallboard	White	Intact	0	Negative
187	Bedroom 2	Wall D	Gypsum wallboard	White	Intact	0	Negative
188	Bedroom 2	Sill	Wood	White	Intact	0	Negative
189	Bedroom 2	Closet Roll Door	Wood	Brown	Intact	0	Negative
190	Bedroom 2	Door	Wood	Brown	Intact	0	Negative
191	Bedroom 2	Door Frame	MDF	Brown	Intact	0	Negative
192	Hall	Ceiling	Gypsum wallboard	White	Intact	0	Negative
193	Hall	Wall B	Gypsum wallboard	White	Intact	0	Negative
194	Hall	Wall D	Gypsum wallboard	White	Intact	0	Negative
195	Stairwell	Rail	Wood	Brown	Intact	0	Negative
196	Stairwell	Wall B	Gypsum wallboard	White	Intact	0	Negative
197	Stairwell	Wall D	Gypsum wallboard	White	Intact	0	Negative
198	Foyer	Ceiling	Gypsum wallboard	White	Intact	0	Negative
199	Foyer	Wall B	Gypsum wallboard	White	Intact	0	Negative
200	Foyer	Door	Metal	White	Intact	0	Negative
201	Foyer	Door Frame	MDF	Brown	Intact	0	Negative
202	Storage Unit <b>Unit 14467</b>	Door	Metal	White	Intact	0	Negative
203	Living room	Ceiling	Gypsum wallboard	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
204	Living room	Wall A	Gypsum wallboard	White	Intact	0	Negative
205	Living room	Wall B	Gypsum wallboard	White	Intact	0	Negative
206	Living room	Wall C	Gypsum wallboard	White	Intact	0	Negative
207	Living room	Wall D	Gypsum wallboard	White	Intact	0	Negative
208	Living room	Sill	Gypsum wallboard	White	Intact	0	Negative
209	Kitchen	Ceiling	Gypsum wallboard	White	Intact	0	Negative
210	Kitchen	Wall A	Gypsum wallboard	White	Intact	0	Negative
211	Kitchen	Wall B	Gypsum wallboard	White	Intact	0	Negative
212	Kitchen	Wall C	Gypsum wallboard	White	Intact	0	Negative
213	Kitchen	Wall D	Gypsum wallboard	White	Intact	0	Negative
214	Kitchen	Sill	Wood	White	Intact	0	Negative
215	Kitchen	Cabinet	Wood	Brown	Intact	0	Negative
216	1/2 Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
217	1/2 Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
218	1/2 Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
219	1/2 Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
220	1/2 Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
221	1/2 Bathroom	Sill	Wood	White	Intact	0	Negative
222	1/2 Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
223	1/2 Bathroom	Door	Wood	Brown	Intact	0	Negative
224	1/2 Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
225	VOID						
226	Bedroom 1	Ceiling	Gypsum wallboard	White	Intact	0	Negative
227	Bedroom 1	Wall A	Gypsum wallboard	White	Intact	0	Negative
228	Bedroom 1	Wall B	Gypsum wallboard	White	Intact	0	Negative
229	Bedroom 1	Wall C	Gypsum wallboard	White	Intact	0	Negative
230	Bedroom 1	Wall D	Gypsum wallboard	White	Intact	0	Negative
231	Bedroom 1	Sill	Wood	White	Intact	0	Negative
232	Bedroom 1	Closet Roll Door	Wood	Brown	Intact	0	Negative
233	Bedroom 1	Door	Wood	Brown	Intact	0	Negative
234	Bedroom 1	Door Frame	MDF	Brown	Intact	0	Negative
235	Bedroom 1	Covebase	MDF	Brown	Intact	0	Negative
236	Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
237	Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
238	Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
239	Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
240	Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
241	Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
242	Bathroom	Door	Wood	Brown	Intact	0	Negative
243	Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
244	Bedroom 2	Ceiling	Gypsum wallboard	White	Intact	0	Negative
245	Bedroom 2	Wall A	Gypsum wallboard	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
246	Bedroom 2	Wall B	Gypsum wallboard	White	Intact	0	Negative
247	Bedroom 2	Wall C	Gypsum wallboard	White	Intact	0	Negative
248	Bedroom 2	Wall D	Gypsum wallboard	White	Intact	0	Negative
249	Bedroom 2	Sill	Wood	White	Intact	0	Negative
250	Bedroom 2	Door	Wood	Brown	Intact	0	Negative
251	Bedroom 2	Door Frame	MDF	Brown	Intact	0	Negative
252	Bedroom 2	Covebase	MDF	Brown	Intact	0	Negative
253	Bedroom 2	Ceiling	Gypsum wallboard	White	Intact	0	Negative
254	Hall	Wall B	Gypsum wallboard	White	Intact	0	Negative
255	Hall	Wall D	Gypsum wallboard	White	Intact	0	Negative
256	Hall	Rail	Wood	Brown	Intact	0	Negative
257					Intact	0	Negative
258					Intact	0	Negative
259					Intact	0	Negative
260	Stairwell	Wall B	Gypsum wallboard	White	Intact	0	Negative
261	Stairwell	Wall D	Gypsum wallboard	White	Intact	0	Negative
262	Stairwell	Ceiling	Gypsum wallboard	White	Intact	0	Negative
263	Foyer	Wall A	Gypsum wallboard	White	Intact	0	Negative
264	Foyer	Wall D	Gypsum wallboard	White	Intact	0	Negative
265	Foyer	Door	Metal	White	Intact	0	Negative
266	Foyer	Door Frame	MDF	Brown	Intact	0	Negative
267	Foyer	Door	Metal	White	Intact	0	Negative
268			Test				PASS
<b>Unit 14465</b>							
269	Living room	Ceiling	Gypsum wallboard	White	Intact	0	Negative
270	Living room	Wall A	Gypsum wallboard	White	Intact	0	Negative
271	Living room	Wall B	Gypsum wallboard	White	Intact	0	Negative
272	Living room	Wall C	Gypsum wallboard	White	Intact	0	Negative
273	Living room	Wall D	Gypsum wallboard	White	Intact	0	Negative
274	Living room	Sill	Wood	White	Intact	0	Negative
275	Kitchen	Ceiling	Gypsum wallboard	White	Intact	0	Negative
276	Kitchen	Wall A	Gypsum wallboard	White	Intact	0	Negative
277	Kitchen	Wall B	Gypsum wallboard	White	Intact	0	Negative
278	Kitchen	Wall C	Gypsum wallboard	White	Intact	0	Negative
279	Kitchen	Wall D	Gypsum wallboard	White	Intact	0	Negative
280	Kitchen	Sill	Wood	White	Intact	0	Negative
281	VOID				Intact		
282	Kitchen	Cabinet	Wood	Brown	Intact	0	Negative
283	1/2 Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
284	1/2 Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
285	1/2 Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
286	1/2 Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
287	1/2 Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
288	1/2 Bathroom	Sill	Wood	White	Intact	0	Negative
289	1/2 Bathroom	Cabinet	Wood	White	Intact	0	Negative
290	1/2 Bathroom	Door	Wood	White	Intact	0	Negative
291	1/2 Bathroom	Door Frame	MDF	White	Intact	0	Negative
292	Bedroom 1	Ceiling	Gypsum wallboard	White	Intact	0	Negative
293	Bedroom 1	Wall A	Gypsum wallboard	White	Intact	0	Negative
294	Bedroom 1	Wall B	Gypsum wallboard	White	Intact	0	Negative
295	Bedroom 1	Wall C	Gypsum wallboard	White	Intact	0	Negative
296	Bedroom 1	Wall D	Gypsum wallboard	White	Intact	0	Negative
297	Bedroom 1	Sill	Wood	White	Intact	0	Negative
298	Bedroom 1	Closet Roll Door	Wood	Brown	Intact	0	Negative
299	Bedroom 1	Covebase	MDF	Brown	Intact	0	Negative
300	Bedroom 1	Door	Wood	Brown	Intact	0	Negative
301	Bedroom 1	Door Frame	MDF	Brown	Intact	0	Negative
302	Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
303	Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
304	Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
305	Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
306	Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
307	Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
308	Bathroom	Door	Wood	Brown	Intact	0	Negative
309	Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
310	Bedroom 2	Ceiling	Gypsum wallboard	White	Intact	0	Negative
311	Bedroom 2	Wall A	Gypsum wallboard	White	Intact	0	Negative
312	Bedroom 2	Wall B	Gypsum wallboard	White	Intact	0	Negative
313	Bedroom 2	Wall C	Gypsum wallboard	White	Intact	0	Negative
314	Bedroom 2	Wall D	Gypsum wallboard	White	Intact	0	Negative
315	Bedroom 2	Sill	Wood	Brown	Intact	0	Negative
316	Bedroom 2	Closet Roll Door	Wood	Brown	Intact	0	Negative
317	Bedroom 2	Door	Wood	Brown	Intact	0	Negative
318	Bedroom 2	Door Frame	MDF	Brown	Intact	0	Negative
319	Bedroom 2	Covebase	MDF	Brown	Intact	0	Negative
320	Hall	Ceiling	Gypsum wallboard	White	Intact	0	Negative
321	Hall	Wall B	Gypsum wallboard	White	Intact	0	Negative
322	Hall	Wall D	Gypsum wallboard	White	Intact	0	Negative
323	Hall	Covebase	MDF	Brown	Intact	0	Negative
324	Stairwell	Rail	Wood	Brown	Intact	0	Negative
325	Stairwell	Wall A	Gypsum wallboard	White	Intact	0	Negative
326	Stairwell	Wall B	Gypsum wallboard	White	Intact	0	Negative
327	Stairwell	Wall D	Gypsum wallboard	White	Intact	0	Negative
328	Stairwell	Ceiling	Gypsum wallboard	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
329	Stairwell	Wall A	Gypsum wallboard	White	Intact	0	Negative
330	Stairwell	Wall D	Gypsum wallboard	White	Intact	0	Negative
331	Stairwell	Door	Metal	White	Intact	0	Negative
332	Stairwell	Door Frame	MDF	Brown	Intact	0	Negative
333	Stairwell	Door	Metal	White	Intact	0	Negative
<b>Unit 14463</b>							
334	Living room	Ceiling	Gypsum wallboard	White	Intact	0	Negative
335	Living room	Wall A	Gypsum wallboard	White	Intact	0	Negative
336	Living room	Wall B	Gypsum wallboard	White	Intact	0	Negative
337	Living room	Wall C	Gypsum wallboard	White	Intact	0	Negative
338	Living room	Wall D	Gypsum wallboard	White	Intact	0	Negative
339	Living room	Sill	Wood	White	Intact	0	Negative
340	Kitchen	Ceiling	Gypsum wallboard	White	Intact	0	Negative
341	Kitchen	Wall A	Gypsum wallboard	White	Intact	0	Negative
342	Kitchen	Wall B	Gypsum wallboard	White	Intact	0	Negative
343	Kitchen	Wall C	Gypsum wallboard	White	Intact	0	Negative
344	Kitchen	Wall D	Gypsum wallboard	White	Intact	0	Negative
345	Kitchen	Sill	Wood	White	Intact	0	Negative
346	Kitchen	Cabinet	Wood	Brown	Intact	0	Negative
347	1/2 Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
348	1/2 Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
349	1/2 Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
350	1/2 Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
351	VOID				Intact		
352	1/2 Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
353	1/2 Bathroom	Sill	Wood	White	Intact	0	Negative
354	1/2 Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
355	1/2 Bathroom	Door	Wood	Brown	Intact	0	Negative
356	1/2 Bathroom	Door Frame	MDF	White	Intact	0	Negative
357	Bedroom 1	Ceiling	Gypsum wallboard	White	Intact	0	Negative
358	Bedroom 1	Wall A	Gypsum wallboard	White	Intact	0	Negative
359	Bedroom 1	Wall B	Gypsum wallboard	White	Intact	0	Negative
360	Bedroom 1	Wall C	Gypsum wallboard	White	Intact	0	Negative
361	Bedroom 1	Wall D	Gypsum wallboard	White	Intact	0	Negative
362	Bedroom 1	Sill	Gypsum wallboard	White	Intact	0	Negative
363	Bedroom 1	Closet Roll Door	Wood	Brown	Intact	0	Negative
364	Bedroom 1	Door	Wood	White	Intact	0	Negative
365	Bedroom 1	Door Frame	MDF	Brown	Intact	0	Negative
366	Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
367	Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
368	Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
369	Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
370	Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
371	Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
372	Bathroom	Door	Wood	Brown	Intact	0	Negative
373	Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
374	Bedroom 2	Ceiling	Gypsum wallboard	White	Intact	0	Negative
375	Bedroom 2	Wall A	Gypsum wallboard	White	Intact	0	Negative
376	Bedroom 2	Wall B	Gypsum wallboard	White	Intact	0	Negative
377	Bedroom 2	Wall C	Gypsum wallboard	White	Intact	0	Negative
378	Bedroom 2	Wall D	Gypsum wallboard	White	Intact	0	Negative
379	Bedroom 2	Sill	Wood	White	Intact	0	Negative
380	Bedroom 2	Door	Wood	Brown	Intact	0	Negative
381	Bedroom 2	Covebase	MDF	Brown	Intact	0	Negative
382	Bedroom 2	Door Frame	MDF	Brown	Intact	0	Negative
383	Hall	Ceiling	Gypsum wallboard	White	Intact	0.01	Negative
384	Hall	Wall B	Gypsum wallboard	White	Intact	0.1	Negative
385	Hall	Wall D	Gypsum wallboard	White	Intact	0.01	Negative
386	Hall	Covebase	MDF	Brown	Intact	0.03	Negative
387	Stairwell	Rail	Wood	Brown	Intact	0.02	Negative
388	Stairwell	Wall B	Gypsum wallboard	White	Intact	0	Negative
389	Stairwell	Wall D	Gypsum wallboard	White	Intact	0.03	Negative
390	Foyer	Ceiling	Gypsum wallboard	White	Intact	0	Negative
391	Foyer	Wall A	Gypsum wallboard	White	Intact	0	Negative
392	Foyer	Wal B	Gypsum wallboard	White	Intact	0	Negative
393	Foyer	Wall D	Gypsum wallboard	White	Intact	0	Negative
394	Foyer	Door	Metal	White	Intact	0	Negative
395	Foyer	Door Frame	MDF	Brown	Intact	0	Negative
396	Foyer	Door	Metal	White	Intact	0	Negative
<b>Unit 14461</b>							
397	Living room	Ceiling	Gypsum wallboard	White	Intact	0	Negative
398	Living room	Wall A	Gypsum wallboard	White	Intact	0.03	Negative
399	Living room	Wall B	Gypsum wallboard	White	Intact	0	Negative
400	Living room	Wall C	Gypsum wallboard	White	Intact	0	Negative
401	Living room	Wall D	Gypsum wallboard	White	Intact	0	Negative
402	Living room	Sill	Gypsum wallboard	White	Intact	0	Negative
403	Living room	Covebase	Gypsum wallboard	Brown	Intact	0	Negative
404	Kitchen	Ceiling	Gypsum wallboard	White	Intact	0	Negative
405	Kitchen	Wall A	Gypsum wallboard	White	Intact	0	Negative
406	Kitchen	Wall B	Gypsum wallboard	White	Intact	0	Negative
407	Kitchen	Wall C	Gypsum wallboard	White	Intact	0	Negative
408	Kitchen	Wall D	Gypsum wallboard	White	Intact	0	Negative
409	Kitchen	Sill	Wood	White	Intact	0	Negative
410	Kitchen	Cabinet	Wood	Brown	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
411	1/2 Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
412	1/2 Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
413	1/2 Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
414	1/2 Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
415	1/2 Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
416	1/2 Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
417	1/2 Bathroom	Door	Wood	Brown	Intact	0	Negative
418	1/2 Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
419	Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
420	Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
421	Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
422	Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
423	Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
424	Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
425	VOID				Intact		
426	Bathroom	Door	Wood	Brown	Intact	0	Negative
427	Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
428	Bedroom 1	Ceiling	Gypsum wallboard	White	Intact	0	Negative
429	Bedroom 1	Wall A	Gypsum wallboard	White	Intact	0.04	Negative
430	Bedroom 1	Wall B	Gypsum wallboard	White	Intact	0.01	Negative
431	Bedroom 1	Wall C	Gypsum wallboard	White	Intact	0	Negative
432	Bedroom 1	Wall D	Gypsum wallboard	White	Intact	0	Negative
433	Bedroom 1	Sill	Wood	White	Intact	0	Negative
434	Bedroom 1	Door	Wood	Brown	Intact	0	Negative
435	Bedroom 1	Door Frame	Wood	Brown	Intact	0	Negative
436	Bedroom 2	Ceiling	Gypsum wallboard	White	Intact	0	Negative
437	Bedroom 2	Wall A	Gypsum wallboard	White	Intact	0	Negative
438	Bedroom 2	Wall B	Gypsum wallboard	White	Intact	0	Negative
439	Bedroom 2	Wall C	Gypsum wallboard	White	Intact	0	Negative
440	Bedroom 2	Wall D	Gypsum wallboard	White	Intact	0	Negative
441	Bedroom 2	Sill	Wood	White	Intact	0	Negative
442	Bedroom 2	Closet Roll Door	Wood	Brown	Intact	0	Negative
443	Bedroom 2	Door	Wood	Brown	Intact	0	Negative
444	Bedroom 2	Door Frame	Wood	White	Intact	0	Negative
445	Hall	Ceiling	Gypsum wallboard	White	Intact	0	Negative
446	Hall	Wall B	Gypsum wallboard	White	Intact	0	Negative
447	Hall	Wall D	Gypsum wallboard	White	Intact	0	Negative
448	Stairwell	Wall B	Gypsum wallboard	White	Intact	0	Negative
449	Stairwell	Wall D	Gypsum wallboard	White	Intact	0	Negative
450	Stairwell	Stringer B	Gypsum wallboard	White	Intact	0.04	Negative
451	Stairwell	Stringer D	Wood	White	Intact	0	Negative
451	Stairwell	Stringer D	Wood	White	Intact	0.12	Negative
452	Foyer	Ceiling	Gypsum wallboard	White	Intact	0.13	Negative
452	Foyer				Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
453	Foyer	Wall A	Gypsum wallboard	White	Intact	0	Negative
454	Foyer	Wall B	Gypsum wallboard	White	Intact	0	Negative
455	Foyer	Wall D	Gypsum wallboard	White	Intact	0	Negative
456	Foyer	Door	Metal	White	Intact	0	Negative
457	Foyer	Door Frame	MDF	Brown	Intact	0	Negative
458	Foyer	Door	Metal	White	Intact	0	Negative
459	Living room	Ceiling	Gypsum wallboard	White	Intact	0	Negative
460	Storage Unit	Wall A	Gypsum wallboard	White	Intact	0	Negative
461	Storage Unit	Wall B	Gypsum wallboard	White	Intact	0.02	Negative
462	Storage Unit	Wall C	Gypsum wallboard	White	Intact	0	Negative
463	Storage Unit	Wall D	Gypsum wallboard	White	Intact	0	Negative
464	Storage Unit	Sill	Wood	White	Intact	0	Negative
465	Kitchen	Ceiling	Gypsum wallboard	White	Intact	0	Negative
466	Kitchen	Wall A	Gypsum wallboard	White	Intact	0	Negative
467	Kitchen	Wall B	Gypsum wallboard	White	Intact	0	Negative
468	Kitchen	Wall C	Gypsum wallboard	White	Intact	0	Negative
469	Kitchen	Wall D	Gypsum wallboard	White	Intact	0	Negative
470	Kitchen	Sill	Wood	White	Intact	0	Negative
471	Kitchen	Cabinet	Wood	Brown	Intact	0	Negative
472	Laundry Room	Ceiling	Gypsum wallboard	White	Intact	0	Negative
473	Laundry Room	Wall A	Gypsum wallboard	White	Intact	1	Positive
474	Laundry Room	Wall B	Gypsum wallboard	White	Intact	0	Negative
475	Laundry Room	Wall C	Gypsum wallboard	White	Intact	0	Negative
476	Laundry Room	Wall D	Gypsum wallboard	White	Intact	0	Negative
477	1/2 Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
478	1/2 Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
479	1/2 Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
480	1/2 Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
481	1/2 Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
482	1/2 Bathroom	Door	Gypsum wallboard	Brown	Intact	0	Negative
483	1/2 Bathroom	Door Frame	Gypsum wallboard	Brown	Intact	0	Negative
484	Bedroom 1	Ceiling	Gypsum wallboard	White	Intact	0	Negative
485	Bedroom 1	Wall A	Gypsum wallboard	White	Intact	0	Negative
486	Bedroom 1	Wall B	Gypsum wallboard	White	Intact	0	Negative
487	Bedroom 1	Wall C	Gypsum wallboard	White	Intact	0	Negative
488	Bedroom 1	Wall D	Gypsum wallboard	White	Intact	0	Negative
489	Bedroom 1	Closet Roll Door	Wood	Brown	Intact	0	Negative
490	Bedroom 1	Sill	Wood	White	Intact	0	Negative
491	Bedroom 2	Ceiling	Gypsum wallboard	White	Intact	0	Negative
492	Bedroom 2	Wall A	Gypsum wallboard	White	Intact	0	Negative
493	Bedroom 2	Wall B	Gypsum wallboard	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
494	Bedroom 2	Wall C	Gypsum wallboard	White	Intact	0	Negative
495	Bedroom 2	Wall D	Gypsum wallboard	White	Intact	0	Negative
496	Bedroom 2	Closet Roll Door	Wood	Brown	Intact	0	Negative
497	Bedroom 2	Door	Wood	Brown	Intact	0	Negative
498	Bedroom 2	Door Frame	MDF	Brown	Intact	0	Negative
499	Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
500	Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
501	Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
502	Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
503	Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
504	Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
505	Bathroom	Door	Wood	Brown	Intact	0	Negative
506	Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
507	Bedroom 3	Ceiling	Gypsum wallboard	White	Intact	0	Negative
508	Bedroom 3	Wall A	Gypsum wallboard	White	Intact	0	Negative
509	Bedroom 3	Wall B	Gypsum wallboard	White	Intact	0	Negative
510	Bedroom 3	Wall C	Gypsum wallboard	White	Intact	0	Negative
511	Bedroom 3	Wall D	Gypsum wallboard	White	Intact	0	Negative
512	Bedroom 3	Sill	Wood	White	Intact	0	Negative
513	Bedroom 3	Door	Wood	Brown	Intact	0	Negative
514	Bedroom 3	Door Frame	MDF	Brown	Intact	0	Negative
515	Bedroom 3	Covebase	MDF	Brown	Intact	0	Negative
516	Bedroom 3	Ceiling	Gypsum wallboard	White	Intact	0	Negative
517	Bedroom 3	Wall A	Gypsum wallboard	White	Intact	0.02	Negative
518	Bedroom 3	Wall B	Gypsum wallboard	White	Intact	0	Negative
519	Bedroom 3	Wall C	Gypsum wallboard	White	Intact	0	Negative
520	Bedroom 3	Wall D	Gypsum wallboard	White	Intact	0	Negative
521	Bedroom 3	Sill	Wood	White	Intact	0	Negative
522	Bedroom 3	Closet Roll Door	Wood	Brown	Intact	0	Negative
523	Bedroom 3	Door	Wood	Brown	Intact	0	Negative
524	Bedroom 3	Door Frame	MDF	Brown	Intact	0	Negative
525						0	Negative
526							PASS
527	Bedroom 3	Covebase	MDF	Brown	Intact	0	Negative
528	Hall	Ceiling	Gypsum wallboard	White	Intact	0	Negative
529	Hall	Wall B	Gypsum wallboard	White	Intact	0	Negative
530	Hall	Wall C	Gypsum wallboard	White	Intact	0	Negative
531	Stairwell	Rail	Wood	Brown	Intact	0	Negative
532	Stairwell	Stringer B	Wood	White	Intact	0	Negative
533	Stairwell	Stringer C	Wood	White	Intact	0	Negative
534	Foyer	Ceiling	Gypsum wallboard	White	Intact	0	Negative
535	Foyer	Wall A	Gypsum wallboard	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
536	Foyer	Wall B	Gypsum wallboard	White	Intact	0	Negative
537	Foyer	Door	Metal	White	Intact	0	Negative
538	Foyer	Door Frame	MDF	Brown	Intact	0	Negative
539	Storage Unit	Door	Metal	White	Intact	0	Negative

Reading	Room	Component	Substrate Test	Color	Condition	Result (mg/sq cm)	Positive/Negative PASS
1	<b>Building G</b>						
2	Community Center	Soffit A	Metal	White	Intact	0	Negative
3	Community Center	Soffit B	Metal	White	Intact	0	Negative
4	Community Center	Soffit C	Metal	White	Intact	0	Negative
5	Community Center	Soffit D	Metal	White	Intact	0	Negative
6	Community Center	Light Cover A	Metal	Black	Intact	0	Negative
7	Community Center	Gutter A	Metal	White	Intact	0	Negative
8	Community Center	Gutter B	Metal	White	Intact	0	Negative
9	Community Center	Gutter C	Metal	White	Intact	0	Negative
10	Community Center	Gutter D	Metal	White	Intact	0	Negative
11	Community Center	Mailbox	Metal	Black	Intact	0	Negative
12	Community Center	Door A	Wood	Red	Intact	0	Negative
13	Community Center	Door Frame A	Wood	Red	Intact	0	Negative
14	Community Center	Door B	Wood	Brown	Intact	0	Negative
15	Community Center	Door Frame D	Wood	Brown	Intact	0	Negative
16						0	Negative
17	Community Center	Door D	Metal	White	Intact	0	Negative
18	Community Center	Door Frame D	Wood	Tan	Intact	0	Negative
19	Community Center	Door D	Metal	White	Intact	0	Negative
20	Community Center	Door Frame D	Wood	Tan	Intact	0.06	Negative
21	Community Center	Rail D	Metal	Black	Intact	0.01	Negative
22	Community Center	Rail D	Metal	Black	Intact	0.37	Negative
23	Community Center	Electric Box D	Metal	Tan	Intact	1	Positive
24	Community Center	Conduit Cover	Metal	Tan	Intact	0	Negative
25	Community Center	Siding C	Wood	Tan	Intact	0	Negative
26	Office/Management	Ceiling	Gypsum wallboard	White	Intact	0	Negative
27	Office/Management	Wall A	Gypsum wallboard	White	Intact	0	Negative
28	Office/Management	Wall B	Gypsum wallboard	White	Intact	0	Negative
29	Office/Management	Wall C	Gypsum wallboard	White	Intact	0	Negative
30	Office/Management	Wall D	Gypsum wallboard	White	Intact	0	Negative
31	Office/Management	Window Frame A	Wood	White	Intact	0	Negative
32	Office/Management	Window Frame D	Wood	White	Intact	0.01	Negative
33	Manager's Office	Ceiling	Gypsum wallboard	White	Intact	0	Negative
34	Manager's Office	Wall A	Gypsum wallboard	White	Intact	1	Positive
35	Manager's Office	Wall B	Gypsum wallboard	White	Intact	0	Negative
36	Manager's Office	Wall C	Gypsum wallboard	White	Intact	0	Negative
37	Manager's Office	Wall D	Gypsum wallboard	White	Intact	1	Positive
38	Maintenance Office	Ceiling	Gypsum wallboard	White	Intact	0.03	Negative
39	Maintenance Office	Wall A	Gypsum wallboard	White	Intact	0	Negative
40	Maintenance Office	Wall B	Gypsum wallboard	White	Intact	0	Negative
41	Maintenance Office	Wall C	Gypsum wallboard	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
42	Maintenance Office	Wall D	Gypsum wallboard	White	Intact	0	Negative
43	Maintenance Office	Sill C	Wood	White	Intact	0	Negative
44	Maintenance Office	Sill C	Wood	White	Intact	0	Negative
45	Maintenance Office	Sill A	Wood	White	Intact	0	Negative
46	Break Room	Ceiling	Gypsum wallboard	White	Intact	0	Negative
47	Break Room	Wall A	Gypsum wallboard	White	Intact	0	Negative
48	Break Room	Wall B	Gypsum wallboard	White	Intact	0	Negative
49	Break Room	Wall C	Gypsum wallboard	White	Intact	0	Negative
50	Break Room	Wall D	Gypsum wallboard	White	Intact	0	Negative
51	Break Room	Closet Roll Door	Wood	White	Intact	0	Negative
52	Break Room	Cabinet	Wood	Brown	Intact	0	Negative
53	Break Room	Sill C	Wood	White	Intact	0	Negative
54	Hall	Ceiling	Gypsum wallboard	White	Intact	0.02	Negative
55	Hall	Wall A	Gypsum wallboard	White	Intact	0.01	Negative
56	Hall	Wall C	Gypsum wallboard	White	Intact	0	Negative
57	Employee Restroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
58	Employee Restroom	Wall B	Gypsum wallboard	White	Intact	1	Positive
59	Employee Restroom	Wall A	Gypsum wallboard	White	Intact	0.03	Negative
60	Employee Restroom	Wall C	Gypsum wallboard	White	Intact	0.04	Negative
61	Employee Restroom	Wall D	Gypsum wallboard	White	Intact	1	Positive
62	Employee Restroom	Door	Wood	Brown	Intact	0.03	Negative
63	Employee Restroom	Door Frame	Wood	Brown	Intact	0.03	Negative
64	Public Restroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
65	Public Restroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
66	Public Restroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
67	Public Restroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
68	Public Restroom	Wall D	Gypsum wallboard	White	Intact	0.07	Negative
69	Public Restroom	Sill A	Wood	White	Intact	0	Negative
70	Public Restroom	Door	Wood	Brown	Intact	0	Negative
71	Public Restroom	Door Frame	Wood	Brown	Intact	0	Negative
72	Manager's Office	Door	Wood	Brown	Intact	0	Negative
73	Manager's Office	Door Frame	Wood	Brown	Intact	0	Negative
74	Maintenance Office	Door	Wood	Brown	Intact	0	Negative
75	Maintenance Office	Door Frame	Wood	Brown	Intact	0	Negative
<b>Building E</b>							
76	Living room	Ceiling	Gypsum wallboard	White	Intact	0	Negative
77	Living room	Wall A	Gypsum wallboard	White	Intact	0	Negative
78	Living room	Wall B	Gypsum wallboard	White	Intact	0	Negative
79	Living room	Wall C	Gypsum wallboard	White	Intact	0	Negative
80	Living room	Wall D	Gypsum wallboard	White	Intact	0	Negative
81	Living room	Sill	Wood	White	Intact	0	Negative
82	Living room	Covebase	MDF	Brown	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
83	Kitchen	Ceiling	Gypsum wallboard	White	Intact	0	Negative
84	Kitchen	Wall A	Gypsum wallboard	White	Intact	0	Negative
85	Kitchen	Wall B	Gypsum wallboard	White	Intact	0	Negative
86	Kitchen	Wall C	Gypsum wallboard	White	Intact	0	Negative
87	Kitchen	Wall D	Gypsum wallboard	White	Intact	0	Negative
88	Kitchen	Sill	Wood	White	Intact	0	Negative
89	Kitchen	Cabinet	Wood	Brown	Intact	0	Negative
90	Laundry room	Ceiling	Gypsum wallboard	White	Intact	0.04	Negative
91	Laundry room	Wall A	Gypsum wallboard	White	Intact	0.03	Negative
92	Laundry room	Wall B	Gypsum wallboard	White	Intact	0.01	Negative
93	Laundry room	Wall C	Gypsum wallboard	White	Intact	0.02	Negative
94	Laundry room	Wall D	Gypsum wallboard	White	Intact	0.01	Negative
95	Laundry room	Sill	Wood	White	Intact	0	Negative
96	Laundry room	Door	Wood	Brown	Intact	0	Negative
97	Laundry room	Door Frame	Wood	Brown	Intact	0	Negative
98	1/2 Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
99	1/2 Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
100	1/2 Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
101	1/2 Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
102	1/2 Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
103	1/2 Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
104	1/2 Bathroom	Door	Wood	Brown	Intact	0	Negative
105	1/2 Bathroom	Door Frame	Wood	White	Intact	0	Negative
106	Bedroom 1	Ceiling	Gypsum wallboard	White	Intact	0	Negative
107	Bedroom 1	Wall A	Gypsum wallboard	White	Intact	0	Negative
108	Bedroom 1	Wall B	Gypsum wallboard	White	Intact	0	Negative
109	Bedroom 1	Wall C	Gypsum wallboard	White	Intact	0	Negative
110	Bedroom 1	Wall D	Gypsum wallboard	White	Intact	0	Negative
111	Bedroom 1	Closet Roll Door	Gypsum wallboard	White	Intact	0	Negative
112	Bedroom 1	Sill	Wood	White	Intact	0	Negative
113	Bedroom 1	Door	Wood	White	Intact	0	Negative
114	Bedroom 2	Ceiling	Gypsum wallboard	White	Intact	0	Negative
115	Bedroom 2	Wall A	Gypsum wallboard	White	Intact	0	Negative
116	Bedroom 2	Wall B	Gypsum wallboard	White	Intact	0	Negative
117	Bedroom 2	Wall C	Gypsum wallboard	White	Intact	0	Negative
118	Bedroom 2	Wall D	Gypsum wallboard	White	Intact	0	Negative
119	Bedroom 2	Sill	Wood	White	Intact	0	Negative
120	Bedroom 2	Door	Wood	Brown	Intact	0	Negative
121	Bedroom 2	Door Frame	MDF	Brown	Intact	0	Negative
122	Bedroom 2	Covebase	MDF	Brown	Intact	0	Negative
123	Bedroom 3	Ceiling	Gypsum wallboard	White	Intact	0	Negative
124	Bedroom 3	Wall A	Gypsum wallboard	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
125	Bedroom 3	Wall B	Gypsum wallboard	White	Intact	0	Negative
126	Bedroom 3	Wall C	Gypsum wallboard	White	Intact	0	Negative
127	Bedroom 3	Wall D	Gypsum wallboard	White	Intact	0	Negative
128	Bedroom 3	Sill	Wood	White	Intact	0	Negative
129	Bedroom 3	Door	Wood	Brown	Intact	0	Negative
130	Bedroom 3	Door Frame	MDF	Brown	Intact	0	Negative
131	Bedroom 3	Covebase	Wood	Brown	Intact	0	Negative
132	Bedroom 4	Ceiling	Gypsum wallboard	White	Intact	0	Negative
133	Bedroom 4	Wall A	Gypsum wallboard	White	Intact	0	Negative
134	Bedroom 4	Wall B	Gypsum wallboard	White	Intact	0	Negative
135	Bedroom 4	Wall C	Gypsum wallboard	White	Intact	0	Negative
136	Bedroom 4	Wall D	Gypsum wallboard	White	Intact	0	Negative
137	Bedroom 4	Sill	Wood	White	Intact	0	Negative
138	Bedroom 4	Door	Wood	Brown	Intact	0	Negative
139	Bedroom 4	Door Frame	MDF	Brown	Intact	0	Negative
140	Bedroom 4	Covebase	MDF	Brown	Intact	0	Negative
141	Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
142	Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
143	Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
144	Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
145	Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
146	Bathroom	Cabinet	Wood	White	Intact	0	Negative
147	Bathroom	Door	Wood	Brown	Intact	0	Negative
148	Hall	Ceiling	Gypsum wallboard	White	Intact	0	Negative
149	Hall	Wall B	Gypsum wallboard	White	Intact	0	Negative
150	Hall	Wall D	Gypsum wallboard	White	Intact	0	Negative
151	Stairwell	Rail	Wood	Brown	Intact	0	Negative
152	Stairwell	Wall A	Gypsum wallboard	White	Intact	0	Negative
153	Stairwell	Wall C	Gypsum wallboard	White	Intact	0	Negative
154	Foyer	Ceiling	Gypsum wallboard	White	Intact	0	Negative
155	Foyer	Wall B	Gypsum wallboard	White	Intact	0	Negative
156	Foyer	Wall D	Gypsum wallboard	White	Intact	0	Negative
157	Foyer	Door	Metal	White	Intact	0	Negative
158	Foyer	Door Frame	MDF	Brown	Intact	0	Negative
159	Storage Unit	Door	Metal	White	Intact	0	Negative
160	Fencing around Dumpster	Pole	Metal	Tan	Intact	0.12	Negative
161	Under Vinyl Siding	Siding	Wood	Blue & Black	Intact	0.02	Negative
162	Side B of Unit Exterior	Electric Box	Metal	Blue	Intact	0.09	Negative
163	Exterior Side C, Under Deck	Wood Beam	Wood	Blue	Intact	0.05	Negative
164	Exterior Side C	Wood Beam	Wood	Blue	Intact	0.05	Negative
165	Exterior Side C	Wood Beam	Wood	Blue	Intact	0.03	Negative

**Unit 14420**

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
166	Living room	Ceiling	Gypsum wallboard	White	Intact	0	Negative
167	Living room	Wall A	Gypsum wallboard	White	Intact	0	Negative
168	Living room	Wall B	Gypsum wallboard	White	Intact	0	Negative
169	Living room	Wall C	Gypsum wallboard	White	Intact	0	Negative
170	Living room	Wall D	Gypsum wallboard	White	Intact	0.04	Negative
171	Living room	Covebase	MDF	Brown	Intact	0	Negative
172	Living room	Sill	Wood	White	Intact	0	Negative
173	Kitchen	Ceiling	Gypsum wallboard	White	Intact	0	Negative
174	Kitchen	Wall A	Gypsum wallboard	White	Intact	0	Negative
175	Kitchen	Wall B	Gypsum wallboard	White	Intact	0	Negative
176	Kitchen	Wall C	Gypsum wallboard	White	Intact	0	Negative
177	Kitchen	Wall D	Gypsum wallboard	White	Intact	0	Negative
178	Kitchen	Sill	Wood	White	Intact	0	Negative
179	Kitchen	Cabinet	Wood	Brown	Intact	0	Negative
180	Bedroom 1	Ceiling	Gypsum wallboard	White	Intact	0	Negative
181	Bedroom 1	Wall A	Gypsum wallboard	White	Intact	0.04	Negative
182	Bedroom 1	Wall B	Gypsum wallboard	White	Intact	0.01	Negative
183	Bedroom 1	Wall C	Gypsum wallboard	White	Intact	0	Negative
184	Bedroom 1	Wall D	Gypsum wallboard	White	Intact	0	Negative
185	Bedroom 1	Closet Roll Door	Wood	Brown	Intact	0	Negative
186	Bedroom 1	Door	Wood	Brown	Intact	0	Negative
187	Bedroom 1	Door Frame	MDF	Brown	Intact	0	Negative
188	Bedroom 1	Covebase	MDF	White	Intact	0	Negative
189	Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
190	Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
191	Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
192	Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
193	Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
194	Bathroom	Cabinet	Wood	White	Intact	0	Negative
195	Bathroom	Door	Wood	Brown	Intact	0	Negative
196	Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
197	Bedroom 2	Ceiling	Gypsum wallboard	White	Intact	0.03	Negative
198	Bedroom 2	Wall A	Gypsum wallboard	White	Intact	0	Negative
199	Bedroom 2	Wall B	Gypsum wallboard	White	Intact	0	Negative
200	Bedroom 2	Wall C	Gypsum wallboard	White	Intact	0	Negative
201	Bedroom 2	Wall D	Gypsum wallboard	White	Intact	0	Negative
202	Bedroom 2	Sill	Wood	White	Intact	0	Negative
203	Bedroom 2	Closet Roll Door	Wood	Brown	Intact	0	Negative
204	Bedroom 2	Door	Wood	Brown	Intact	0	Negative
205	Bedroom 2	Door Frame	MDF	Brown	Intact	0	Negative
206	Bedroom 2	Covebase	MDF	Brown	Intact	0.09	Negative
207	Hall	Ceiling	Gypsum wallboard	White	Intact	0.03	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
208	Hall	Wall B	Gypsum wallboard	White	Intact	0.04	Negative
209	Hall	Wall C	Gypsum wallboard	White	Intact	0.07	Negative
210	Hall	Wall D	Gypsum wallboard	White	Intact	0	Negative
211	Stairwell	Rail	Wood	Brown	Intact	0	Negative
212	Stairwell	Stringer B	Wood	White	Intact	0	Negative
213	Stairwell	Stringer D	Wood	White	Intact	0	Negative
214	Stairwell	Wall B	Gypsum wallboard	White	Intact	0	Negative
215	Stairwell	Wall D	Gypsum wallboard	White	Intact	0	Negative
216	Foyer	Ceiling	Gypsum wallboard	White	Intact	0	Negative
217	Foyer	Wall A	Gypsum wallboard	White	Intact	0	Negative
218	Foyer	Door	Metal	White	Intact	0	Negative
219	Foyer	Door Frame	MDF	Brown	Intact	0	Negative
220	Storage Unit	Door	Metal	White	Intact	0	Negative
221	1/2 Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
222	1/2 Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
223	1/2 Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
224	1/2 Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
225	1/2 Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
226	1/2 Bathroom	Cabinet	Wood	White	Intact	0	Negative
227	1/2 Bathroom	Door	Wood	White	Intact	0	Negative
228	1/2 Bathroom	Door Frame	MDF	White	Intact	0	Negative
229			Test	White	Intact	0	Negative
<b>Unit 14424</b>							
230	Living room	Ceiling	Gypsum wallboard	White	Intact	0.01	Negative
231	Living room	Wall A	Gypsum wallboard	White	Intact	0	Negative
232	Living room	Wall B	Gypsum wallboard	White	Intact	0	Negative
233	Living room	Wall C	Gypsum wallboard	White	Intact	0	Negative
234	Living room	Wall D	Gypsum wallboard	White	Intact	0	Negative
235	Living room	Covebase	MDF	Brown	Intact	0	Negative
236	Living room	Sill	Wood	White	Intact	0	Negative
237	Kitchen	Ceiling	Gypsum wallboard	White	Intact	0	Negative
238	Kitchen	Wall A	Gypsum wallboard	White	Intact	0	Negative
239	Kitchen	Wall B	Gypsum wallboard	White	Intact	0	Negative
240	Kitchen	Wall C	Gypsum wallboard	White	Intact	0	Negative
241	Kitchen	Wall D	Gypsum wallboard	White	Intact	0	Negative
242	Kitchen	Sill	Wood	White	Intact	0	Negative
243	Kitchen	Cabinet	Wood	Brown	Intact	0	Negative
244	Bedroom 1	Ceiling	Gypsum wallboard	White	Intact	0	Negative
245	Bedroom 1	Wall A	Gypsum wallboard	White	Intact	0	Negative
246	Bedroom 1	Wall B	Gypsum wallboard	White	Intact	0	Negative
247	Bedroom 1	Wall C	Gypsum wallboard	White	Intact	0	Negative
248	Bedroom 1	Wall D	Gypsum wallboard	White	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
249	Bedroom 1	Closet Roll Door	Wood	Brown	Intact	0	Negative
250	Bedroom 1	Door	Wood	Brown	Intact	0	Negative
251	Bedroom 1	Door Frame	MDF	Brown	Intact	0	Negative
252	Bedroom 1	Covebase	MDF	Brown	Intact	0	Negative
253	Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
254	Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
255	Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
256	Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
257	Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
258	Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
259	Bathroom	Door	Wood	Brown	Intact	0	Negative
260	Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
261	Bedroom 2	Ceiling	Gypsum wallboard	White	Intact	0	Negative
262	Bedroom 2	Wall A	Gypsum wallboard	White	Intact	0	Negative
263	Bedroom 2	Wall B	Gypsum wallboard	White	Intact	0	Negative
264	Bedroom 2	Wall C	Gypsum wallboard	White	Intact	0	Negative
265	Bedroom 2	Wall D	Gypsum wallboard	White	Intact	0	Negative
266	Bedroom 2	Closet Roll Door	MDF	Brown	Intact	0	Negative
267	Bedroom 2	Sill	Wood	Brown	Intact	0	Negative
268	Bedroom 2	Door	Wood	Brown	Intact	0	Negative
269	Bedroom 2	Door Frame	MDF	Brown	Intact	0	Negative
270	Hall	Ceiling	Gypsum wallboard	White	Intact	0	Negative
271	Hall	Wall B	Gypsum wallboard	White	Intact	0	Negative
272	Hall	Wall C	Gypsum wallboard	White	Intact	0	Negative
273	Hall	Wall D	Gypsum wallboard	White	Intact	0	Negative
274	Stairwell	Rail	Wood	Brown	Intact	0	Negative
275	Stairwell	Stringer B	Wood	White	Intact	0	Negative
276	Stairwell	Stringer D	Wood	White	Intact	0	Negative
277	Stairwell	Wall B	Gypsum wallboard	White	Intact	0	Negative
278	Stairwell	Wall D	Gypsum wallboard	White	Intact	0	Negative
279	Foyer	Ceiling	Gypsum wallboard	White	Intact	0	Negative
280	Foyer	Wall A	Gypsum wallboard	White	Intact	0	Negative
281	Foyer	Door	Metal	White	Intact	0	Negative
282	Foyer	Door Frame	MDF	Brown	Intact	0	Negative
283	Storage Unit	Door	Metal	White	Intact	0	Negative
284	1/2 Bathroom	Ceiling	Gypsum wallboard	White	Intact	0	Negative
285	1/2 Bathroom	Wall A	Gypsum wallboard	White	Intact	0	Negative
286	1/2 Bathroom	Wall B	Gypsum wallboard	White	Intact	0	Negative
287	1/2 Bathroom	Wall C	Gypsum wallboard	White	Intact	0	Negative
288	1/2 Bathroom	Wall D	Gypsum wallboard	White	Intact	0	Negative
289	1/2 Bathroom	Cabinet	Wood	Brown	Intact	0	Negative
290	1/2 Bathroom	Door	Wood	Brown	Intact	0	Negative

Reading	Room	Component	Substrate	Color	Condition	Result (mg/sq cm)	Positive/Negative
291	1/2 Bathroom	Door Frame	MDF	Brown	Intact	0	Negative
292	Exterior Deck	Floor	Wood	Blue	Intact	0	Negative
293	Exterior Deck	Rail	Wood	Blue	Intact	0	Negative
294	Exterior Deck	Wall	Wood	Blue	Intact	0	Negative
295	Next Door Deck #14420	Floor	Wood	Blue	Intact	0	Negative
296	Next Door Deck #14420	Rail	Wood	Blue	Intact	0	Negative
297	Next Door Deck #14420	Wall	Wood	Blue	Intact	0	Negative
298	Exterior Building A, Side C	Deck Rail	Wood	Tan	Intact	0	Negative
299	Exterior Building A, Side C	Deck Rail	Wood	Tan	Intact	0	Negative
300	Exterior Building A, Side C	Deck Rail	Wood	Tan	Intact	0	Negative
301	Exterior Building A, Side C	Deck Rail	Wood	Tan	Intact	0	Negative
302	Exterior Building A, Side C	Door on Crawlspace	Wood	Tan	Intact	0	Negative
303	Under Vinyl Siding	Siding	Wood	Tan	Intact	0	Negative
304	VOID						
305	Exterior Building A, Side A	Soffit	Metal	White	Intact	0	Negative
306	Building D, Side C - Under Vinyl Siding	Siding	Wood	Blue	Intact	0.1	Negative
307	Building D, Side A	Soffit	Metal	White	Intact	0.08	Negative
308	Building C, Side C - Under Vinyl Siding	Siding	Wood	Tan	Intact	0.19	Negative
309	Side A	Soffit	Metal	White	Intact	0.09	Negative
310	Side A	Fence Rail	Metal	Black	Intact	0.03	Negative
311	Building D, Side C	Deck Rail	Wood	Blue	Intact	0	Negative
312	Building D, Side C	Deck Stair	Wood	Blue	Intact	0	Negative
313	Building D, Side C	Deck Beam	Wood	Blue	Intact	0.15	Negative
314	Building D, Side C - Under Vinyl Siding	Siding	Wood	Blue	Intact	0.12	Negative
315	Side A	Soffit	Metal	White	Intact	0.11	Negative
316	BUILDING G Laundry	Ceiling	Gypsum wallboard	White	Intact	0	Negative
317	VOID						
318	Building G Side A	Wall A	Gypsum wallboard	White	Intact	0	Negative
319	Building G Side B	Wall B	Gypsum wallboard	White	Intact	0	Negative
320	Building G Side C	Wall C	Gypsum wallboard	White	Intact	0	Negative
321	Building G Side D	Wall D	Gypsum wallboard	White	Intact	0	Negative
322	Building G Side A	Gutter	Metal	White	Intact	0	Negative
323	Building G Side A	Gutter	Metal	White	Intact	0	Negative

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## Analysis Report

AIHA - IH # 101861  
WA - DOE # C1765



### Total Lead (Pb)

Client: PBS Environmental (Seattle)  
Address: 2517 Eastlake Ave E, Suite 100  
Seattle, WA 98102

**Batch #: 1209245.00**

Matrix: Dust/wipe (Area)

Method: EPA 7000B

Client Project #: 40573.074

Date Received: 06/18/2012

Samples Received: 15

Samples Analyzed: 15

**Attention: Ms. Janet Murphy**  
Project Location: KCHA Riverton Terrace

Lab ID	Client Sample #	Element	Sample sq ft	RL ug/ sq ft	Results in ug/wipe	Results in ug/sq. ft
12054696	40573.074-1	Lead (Pb)	0.50	20.0	< 10.0	< 20.0
12054697	40573.074-2	Lead (Pb)	0.50	20.0	< 10.0	< 20.0
12054698	40573.074-3	Lead (Pb)	0.50	20.0	170.0	350.0
12054699	40573.074-4	Lead (Pb)	0.50	20.0	< 10.0	< 20.0
12054700	40573.074-5	Lead (Pb)	0.50	20.0	< 10.0	< 20.0
12054701	40573.074-6	Lead (Pb)	0.50	20.0	< 10.0	< 20.0
12054702	40573.074-7	Lead (Pb)	0.50	20.0	< 10.0	< 20.0
12054703	40573.074-8	Lead (Pb)	0.50	20.0	19.0	38.0
12054704	40573.074-9	Lead (Pb)	0.50	20.0	< 10.0	< 20.0
12054705	40573.074-10	Lead (Pb)	0.50	20.0	< 10.0	< 20.0
12054706	40573.074-11	Lead (Pb)	0.50	20.0	< 10.0	< 20.0
12054707	40573.074-12	Lead (Pb)	0.50	20.0	< 10.0	< 20.0
12054708	40573.074-13	Lead (Pb)	0.50	20.0	< 10.0	< 20.0
12054709	40573.074-14	Lead (Pb)	0.50	20.0	< 10.0	< 20.0
12054710	40573.074-15	Lead (Pb)	0.50	20.0	< 10.0	< 20.0

Sampled by: Client  
Analyzed by: Aaron Brown  
Reviewed by: Nick Ly

Date Analyzed: 06/19/2012  
Date Issued: 06/20/2012

  
Nick Ly, Technical Director

ug/ sq. ft. =Micrograms per square foot  
ug / wipe = Micrograms per wipe

RL = Reporting Limit  
'<' = Below the reporting Limit

Note : Method QC results are acceptable unless stated otherwise. Concentration (ug/ft<sup>2</sup>) not reported if sample area is zero.  
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.



BATCH ID  
1209245.00

Project: KCHA Riverton Terrace

Project #: 46573.074

Analysis requested: Lead Dustwipes 9"x8"

Date: 6/18/12

Relinquished by/Signature: Janet Murphy

Date/Time: 6/18/12

Received by/Signature: [Signature] Nullah

Date/Time: 6/18/12 4:40p

**Fax results to:**

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Brian Stanford | <input type="checkbox"/> Janet Murphy       | <input type="checkbox"/> Willem Mager    |
| <input type="checkbox"/> Ernest Edwards | <input type="checkbox"/> Harry Goren        | <input type="checkbox"/> Tim Ogden       |
| <input type="checkbox"/> Mark Hiley     | <input type="checkbox"/> Mike Smith         | <input type="checkbox"/> Ferman Fletcher |
| <input type="checkbox"/> Gregg Middaugh | <input type="checkbox"/> Prudy Stoudt-McRae | <input type="checkbox"/> Other _____     |

**TURN AROUND TIME:**

- |                                  |                                   |   |
|----------------------------------|-----------------------------------|---|
| <input type="checkbox"/> 1 Hour  | <input type="checkbox"/> 24 Hours | <input type="checkbox"/> 5 Days                         |
| <input type="checkbox"/> 2 Hours | <input type="checkbox"/> 48 Hours | <input checked="" type="checkbox"/> Other <u>4 Days</u> |
| <input type="checkbox"/> 4 Hours |                                   |   |
- Analyzed by Aaron Brown [Signature] ML 6/19/12 15:50  
 Emailed by Aaron Brown [Signature] MA 6/22/12 16:20

**BULK SAMPLE DATA FORM**

Lab #	Sample #	Material	Location	Lab
	1	Floor wipe	Bldg A Unit 14471 Front Entry	
	2	Floor wipe	Bldg A Unit 14471 Bedroom 1	
	3	Floor wipe	Bldg A Unit 14469 Front Entry	
	4	Floor wipe	Bldg A Unit 14469 Kitchen	
	5	Floor wipe	Bldg A Unit 14467 Front Entry	
	6	Floor wipe	Bldg A Unit 14467 Bedroom 1	
	7	Floor wipe	Bldg A Unit 14465 Front Entry	
	8	Floor wipe	Bldg A Unit 14465 Kitchen	
	9	Floor wipe	Bldg A Unit 14463 Front Entry	
	10	Floor wipe	Bldg A Unit 14463 Bedroom 2	
	11	Floor wipe	Bldg A Unit 14461 Front Entry	
	12	Floor wipe	Bldg A Unit 14461 Kitchen	
	13	Floor wipe	Bldg B Unit 14469 Front Entry	
	14	Floor wipe	Bldg B Unit 14469 Kitchen	
	15	Floor wipe	Bldg B Unit 14466 Front Entry	

# NVL Laboratories, Inc.

4708 Aurora Ave. N., Seattle, WA 98103  
Tel: 206.547.0100, Fax: 206.634.1936  
www.nvllabs.com



AIHA - IH # 101861  
WA - DOE # C1765

## Analysis Report

### Total Lead (Pb)

Client: PBS Environmental (Seattle)  
Address: 2517 Eastlake Ave E, Suite 100  
Seattle, WA 98102

Attention: Ms. Janet Murphy  
Project Location: KCHA Riverton Terrace

Batch #: 1209246.00

Matrix: Dust/wipe (Area)

Method: EPA 7000B

Client Project #: 40573.074

Date Received: 06/18/2012

Samples Received: 15

Samples Analyzed: 15

Lab ID	Client Sample #	Element	Sample sq ft	RL ug/ sq ft	Results in ug/wipe	Results in ug/sq. ft
12054711	40573.074-16	Lead (Pb)	0.50	19.0	14.0	28.0
12054712	40573.074-17	Lead (Pb)	0.50	19.0	12.0	23.0
12054713	40573.074-18	Lead (Pb)	0.50	19.0	< 9.5	< 19.0
12054714	40573.074-19	Lead (Pb)	0.50	19.0	< 9.5	< 19.0
12054715	40573.074-20	Lead (Pb)	0.50	19.0	< 9.5	< 19.0
12054716	40573.074-21	Lead (Pb)	0.50	19.0	< 9.5	< 19.0
12054717	40573.074-22	Lead (Pb)	0.50	19.0	< 9.5	< 19.0
12054718	40573.074-23	Lead (Pb)	0.50	19.0	< 9.5	< 19.0
12054719	40573.074-24	Lead (Pb)	0.50	19.0	< 9.5	< 19.0
12054720	40573.074-25	Lead (Pb)	0.50	19.0	< 9.5	< 19.0
12054721	40573.074-26	Lead (Pb)	0.50	19.0	< 9.5	< 19.0
12054722	40573.074-27	Lead (Pb)	0.50	19.0	< 9.5	< 19.0
12054723	40573.074-28	Lead (Pb)	0.50	19.0	< 9.5	< 19.0
12054724	40573.074-29	Lead (Pb)	0.50	19.0	< 9.5	< 19.0
12054725	40573.074-30	Lead (Pb)	0.50	19.0	< 9.5	< 19.0

Sampled by: Client

Analyzed by: Aaron Brown

Reviewed by: Nick Ly

Date Analyzed: 06/21/2012

Date Issued: 06/21/2012

  
\_\_\_\_\_  
By: Technical Director

ug/ sq. ft. =Micrograms per square foot

ug / wipe = Micrograms per wipe

RL = Reporting Limit

'<' = Below the reporting Limit

Note : Method QC results are acceptable unless stated otherwise. Concentration (ug/ft<sup>2</sup>) not reported if sample area is zero.  
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.



BATCH ID  
1209246.00

Project: KCHA Riverston Terrace

Project #: 40573.074

Analysis requested: Lead Dust Wipes 9"x8"

Date: 6/18/12

Relinquished by/Signature: Janet Murphy

Date/Time: 6/18/12

Received by/Signature: [Signature]

Date/Time: 6/18/12 9:40

**Fax results to:**

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Brian Stanford | <input type="checkbox"/> Janet Murphy       | <input type="checkbox"/> Willem Mager    |
| <input type="checkbox"/> Ernest Edwards | <input type="checkbox"/> Harry Goren        | <input type="checkbox"/> Tim Ogden       |
| <input type="checkbox"/> Mark Hiley     | <input type="checkbox"/> Mike Smith         | <input type="checkbox"/> Ferman Fletcher |
| <input type="checkbox"/> Gregg Middaugh | <input type="checkbox"/> Prudy Stoudt-McRae | <input type="checkbox"/> Other _____     |

**TURN AROUND TIME:**

- |                                  |                                   |                                      |
|----------------------------------|-----------------------------------|--------------------------------------|
| <input type="checkbox"/> 1 Hour  | <input type="checkbox"/> 24 Hours | <input type="checkbox"/> 5 Days      |
| <input type="checkbox"/> 2 Hours | <input type="checkbox"/> 48 Hours | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> 4 Hours |                                   |                                      |
- Analyzed by Aaron Brown [Signature] WA 6/21/12 17:15  
 Emailed by Aaron Brown [Signature] WA 6/22/12 16:20

**BULK SAMPLE DATA FORM**

Lab #	Sample #	Material	Location	Lab
	16	Floor Wipe	Bldg B Unit 14466 Kitchen	
	17	Floor Wipe	Bldg B Unit 14464 Front Entry	
	18	Floor Wipe	Bldg B Unit 14464 Bedroom 1	
	19	Floor Wipe	Bldg C Unit 14458 Front Entry	
	20	Floor Wipe	Bldg C Unit 14458 Bedroom 2	
	21	Floor Wipe	Bldg C Unit 14454 Front Entry	
	22	Floor Wipe	Bldg C Unit 14454 Bedroom 1	
	23	Floor Wipe	Bldg C Unit 14452 Front Entry	
	24	Floor Wipe	Bldg C Unit 14452 Kitchen	
	25	Floor Wipe	Bldg C Unit 14450 Front Entry	
	26	Floor Wipe	Bldg C Unit 14450 Kitchen	
	27	Floor Wipe	Bldg C Unit 14448 Front Entry	
	28	Floor Wipe	Bldg C Unit 14448 Kitchen	
	29	Floor Wipe	Bldg D Unit 14444 Front Entry	
	30	Floor Wipe	Bldg D Unit 14444 Laundry Room	

# NVL Laboratories, Inc.

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Tel: 206.547.0100, Fax: 206.634.1936  
www.nvllabs.com

AIHA - IH # 101861  
WA - DOE # C1765



## Analysis Report

### Total Lead (Pb)

Client: PBS Environmental (Seattle)  
Address: 2517 Eastlake Ave E, Suite 100  
Seattle, WA 98102

**Batch #: 1209247.00**

Matrix: Dust/wipe (Area)

Method: EPA 7000B

Client Project #: 40573.074

Date Received: 06/18/2012

Samples Received: 8

Samples Analyzed: 8

**Attention: Ms. Janet Murphy**

Project Location: KCHA Riverton Terrace

Lab ID	Client Sample #	Element	Sample sq ft	RL ug/ sq ft	Results in ug/wipe	Results in ug/sq. ft
12054726	40573.074-31	Lead (Pb)	0.50	21.0	< 11.0	< 21.0
12054727	40573.074-32	Lead (Pb)	0.50	21.0	< 11.0	< 21.0
12054728	40573.074-34	Lead (Pb)	0.50	21.0	< 11.0	< 21.0
12054729	40573.074-35	Lead (Pb)	0.50	21.0	< 11.0	< 21.0
12054730	40573.074-36	Lead (Pb)	0.50	21.0	< 11.0	< 21.0
12054731	40573.074-37	Lead (Pb)	0.50	21.0	< 11.0	< 21.0
12054732	40573.074-38	Lead (Pb)	0.50	21.0	< 11.0	< 21.0
12054733	40573.074-39	Lead (Pb)	0.50	21.0	< 11.0	< 21.0

Sampled by: Client

Analyzed by: Aaron Brown

Reviewed by: Nick Ly

Date Analyzed: 06/20/2012

Date Issued: 06/21/2012

  
Nick Ly, Technical Director

ug/ sq. ft. =Micrograms per square foot

ug / wipe = Micrograms per wipe

RL = Reporting Limit

'<' = Below the reporting Limit

Note : Method QC results are acceptable unless stated otherwise. Concentration (ug/ft<sup>2</sup>) not reported if sample area is zero.  
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.



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Tel: 206.547.0100, Fax: 206.634.1936  
www.nvllabs.com

AIHA - IH # 101861  
WA - DOE # C1765



## Analysis Report

### Total Lead (Pb)

Client: PBS Environmental (Seattle)  
Address: 2517 Eastlake Ave E, Suite 100  
Seattle, WA 98102

Batch #: 1209244.00

Matrix: Soil

Method: EPA 7000B

Client Project #: 40573.074

Date Received: 06/18/2012

Samples Received: 8

Samples Analyzed: 8

Attention: Ms. Janet Murphy

Project Location: KCHA Riverton Terrace

Lab ID	Client Sample #	Sample Wt (g)	RL mg/ kg	Results in mg/Kg	Results in ppm
12054688	40573.074-S1	0.2984	32.0	< 32.0	< 32.0
12054689	40573.074-S2	0.3009	31.0	46.0	46.0
12054690	40573.074-S3	0.3010	31.0	60.0	60.0
12054691	40573.074-S4	0.2955	32.0	47.0	47.0
12054692	40573.074-S5	0.3039	31.0	45.0	45.0
12054693	40573.074-S6	0.3067	31.0	45.0	45.0
12054694	40573.074-S7	0.3024	31.0	45.0	45.0
12054695	40573.074-S8	0.3063	31.0	38.0	38.0

Sampled by: Client

Analyzed by: Aaron Brown

Reviewed by: Nick Ly

Date Analyzed: 06/21/2012

Date Issued: 06/21/2012

A handwritten signature in black ink, appearing to read "Nick Ly".

Nick Ly, Technical Director

mg/ kg = Milligrams per kilogram

ppm = Parts per million

RL = Reporting Limit

'<' = Below the reporting Limit

Note : Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.



BATCH ID  
1209244.00

KCHA

Project: Riverton Terrace

Project #: 40573.074

Analysis requested: Lead AAS Soil

Date: 6/15/12

Relinqu'd by/Signature: Janet Murphy

Date/Time: 6/15/12

Received by/Signature: [Signature] Nullahs

Date/Time: 6/18/12 4:40pm

Fax results to:

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Brian Stanford | <input type="checkbox"/> Prudy Stoudt-McRae | <input type="checkbox"/> Ferman Fletcher |
| <input type="checkbox"/> Ernest Edwards | <input type="checkbox"/> Joe Lucas          | <input type="checkbox"/> Tim Ogden       |
| <input type="checkbox"/> Gregg Middaugh | <input type="checkbox"/> Janet Murphy       | <input type="checkbox"/> Mike Smith      |
| <input type="checkbox"/> Mark Hiley     | <input type="checkbox"/> Willem Mager       | <input type="checkbox"/> Chuck Greeb     |

TURN AROUND TIME:

- |                                  |                                   |   |
|----------------------------------|-----------------------------------|---|
| <input type="checkbox"/> 1 Hour  | <input type="checkbox"/> 24 Hours | <input type="checkbox"/> 3-5 Days                       |
| <input type="checkbox"/> 2 Hours | <input type="checkbox"/> 48 Hours | <input checked="" type="checkbox"/> Other <u>4 Days</u> |
| <input type="checkbox"/> 4 Hours |                                   |   |

Analyzed by Aaron Brown [Signature] NM 6/21/12 13:50  
 Emailed by Aaron Brown [Signature] NM 6/22/12 16:20

BULK SAMPLE DATA FORM

Lab #	Sample #	Material	Location	Lab
	S1	Soil Composite	Drip Line of Bldg A	
	S2	Soil Composite	Drip Line of Bldg B	
	S3	Soil Composite	Drip Line of Bldg C	
	S4	Soil Composite	Drip Line of Bldg D	
	S5	Soil Composite	Drip Line of Bldg F	
	S6	Soil Composite	Drip Line of Bldg G Community Center	
	S7	Soil Composite	Drip Line of Bldg F	
	S8	Soil Composite	Playground between grass and asphalt	

## **TAB 2**

---

### **Publications**

Pamphlet *"Protect Your Family From Lead In Your Home"*

Pamphlet *"Testing Your Home for Lead in Paint, Dust, and Soil"*

Pamphlet *"The Lead-Based Paint Pre-Renovation Education Rule"*

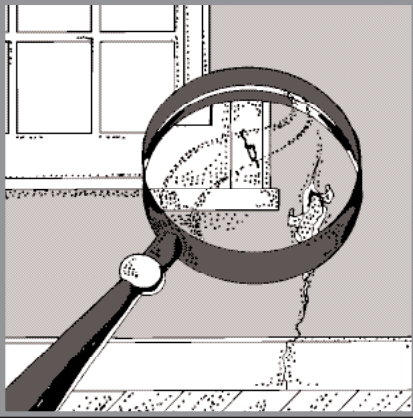
# Simple Steps To Protect Your Family From Lead Hazards

## If you think your home has high levels of lead:

- ◆ Get your young children tested for lead, even if they seem healthy.
- ◆ Wash children's hands, bottles, pacifiers, and toys often.
- ◆ Make sure children eat healthy, low-fat foods.
- ◆ Get your home checked for lead hazards.
- ◆ Regularly clean floors, window sills, and other surfaces.
- ◆ Wipe soil off shoes before entering house.
- ◆ Talk to your landlord about fixing surfaces with peeling or chipping paint.
- ◆ Take precautions to avoid exposure to lead dust when remodeling or renovating (call 1-800-424-LEAD for guidelines).
- ◆ Don't use a belt-sander, propane torch, high temperature heat gun, scraper, or sandpaper on painted surfaces that may contain lead.
- ◆ Don't try to remove lead-based paint yourself.

 **Recycled/Recyclable**

Printed with vegetable oil based inks on recycled paper  
(minimum 50% postconsumer) process chlorine free.



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# Protect Your Family From Lead In Your Home

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United States  
Environmental  
Protection Agency



United States  
Consumer Product  
Safety Commission



United States  
Department of Housing  
and Urban Development

---

# Are You Planning To Buy, Rent, or Renovate a Home Built Before 1978?

---

**M**any houses and apartments built before 1978 have paint that contains high levels of lead (called lead-based paint). Lead from paint, chips, and dust can pose serious health hazards if not taken care of properly.



**OWNERS, BUYERS, and RENTERS** are encouraged to check for lead (see page 6) before renting, buying or renovating pre-1978 housing.

**F**ederal law requires that individuals receive certain information before renting, buying, or renovating pre-1978 housing:



**LANDLORDS** have to disclose known information on lead-based paint and lead-based paint hazards before leases take effect. Leases must include a disclosure about lead-based paint.



**SELLERS** have to disclose known information on lead-based paint and lead-based paint hazards before selling a house. Sales contracts must include a disclosure about lead-based paint. Buyers have up to 10 days to check for lead.



**RENOVATORS** disturbing more than 2 square feet of painted surfaces have to give you this pamphlet before starting work.

# IMPORTANT!

## Lead From Paint, Dust, and Soil Can Be Dangerous If Not Managed Properly

- FACT:** Lead exposure can harm young children and babies even before they are born.
- FACT:** Even children who seem healthy can have high levels of lead in their bodies.
- FACT:** People can get lead in their bodies by breathing or swallowing lead dust, or by eating soil or paint chips containing lead.
- FACT:** People have many options for reducing lead hazards. In most cases, lead-based paint that is in good condition is not a hazard.
- FACT:** Removing lead-based paint improperly can increase the danger to your family.

If you think your home might have lead hazards, read this pamphlet to learn some simple steps to protect your family.

# Lead Gets in the Body in Many Ways

---

**Childhood lead poisoning remains a major environmental health problem in the U.S.**

---

**Even children who appear healthy can have dangerous levels of lead in their bodies.**

---

## **People can get lead in their body if they:**

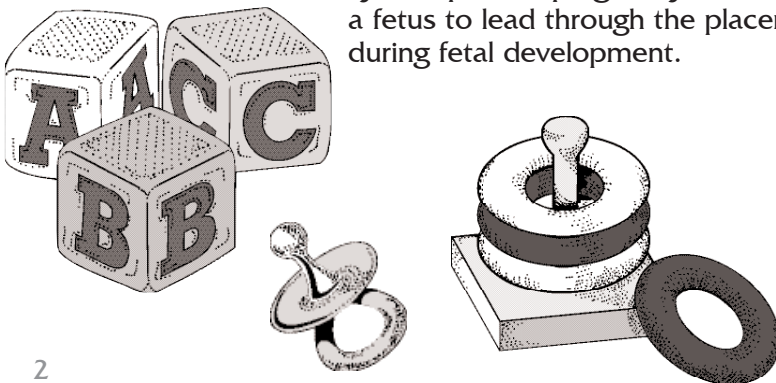
- ◆ Breathe in lead dust (especially during renovations that disturb painted surfaces).
- ◆ Put their hands or other objects covered with lead dust in their mouths.
- ◆ Eat paint chips or soil that contains lead.

## **Lead is even more dangerous to children under the age of 6:**

- ◆ At this age children's brains and nervous systems are more sensitive to the damaging effects of lead.
- ◆ Children's growing bodies absorb more lead.
- ◆ Babies and young children often put their hands and other objects in their mouths. These objects can have lead dust on them.

## **Lead is also dangerous to women of childbearing age:**

- ◆ Women with a high lead level in their system prior to pregnancy would expose a fetus to lead through the placenta during fetal development.



## Lead's Effects

It is important to know that even exposure to low levels of lead can severely harm children.

### In children, lead can cause:

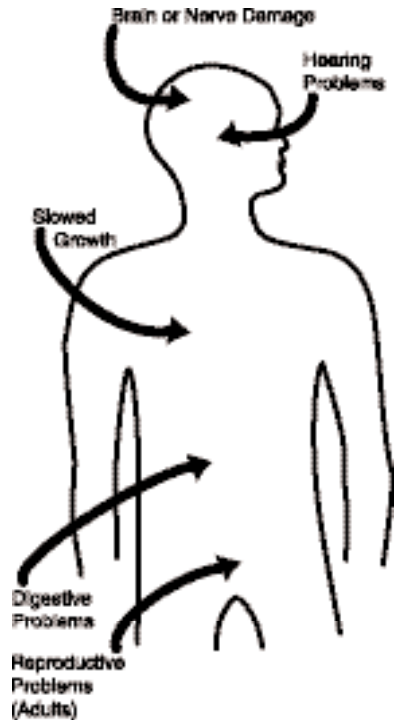
- ◆ Nervous system and kidney damage.
- ◆ Learning disabilities, attention deficit disorder, and decreased intelligence.
- ◆ Speech, language, and behavior problems.
- ◆ Poor muscle coordination.
- ◆ Decreased muscle and bone growth.
- ◆ Hearing damage.

While low-lead exposure is most common, exposure to high levels of lead can have devastating effects on children, including seizures, unconsciousness, and, in some cases, death.

Although children are especially susceptible to lead exposure, lead can be dangerous for adults too.

### In adults, lead can cause:

- ◆ Increased chance of illness during pregnancy.
- ◆ Harm to a fetus, including brain damage or death.
- ◆ Fertility problems (in men and women).
- ◆ High blood pressure.
- ◆ Digestive problems.
- ◆ Nerve disorders.
- ◆ Memory and concentration problems.
- ◆ Muscle and joint pain.



---

**Lead affects  
the body in  
many ways.**

---

## Where Lead-Based Paint Is Found

---

**In general, the older your home, the more likely it has lead-based paint.**

---

**Many homes built before 1978 have lead-based paint.** The federal government banned lead-based paint from housing in 1978. Some states stopped its use even earlier. Lead can be found:

- ◆ In homes in the city, country, or suburbs.
- ◆ In apartments, single-family homes, and both private and public housing.
- ◆ Inside and outside of the house.
- ◆ In soil around a home. (Soil can pick up lead from exterior paint or other sources such as past use of leaded gas in cars.)

## Checking Your Family for Lead

---

**Get your children and home tested if you think your home has high levels of lead.**

---

**To reduce your child's exposure to lead, get your child checked, have your home tested (especially if your home has paint in poor condition and was built before 1978), and fix any hazards you may have.** Children's blood lead levels tend to increase rapidly from 6 to 12 months of age, and tend to peak at 18 to 24 months of age.

Consult your doctor for advice on testing your children. A simple blood test can detect high levels of lead. Blood tests are usually recommended for:

- ◆ Children at ages 1 and 2.
- ◆ Children or other family members who have been exposed to high levels of lead.
- ◆ Children who should be tested under your state or local health screening plan.

Your doctor can explain what the test results mean and if more testing will be needed.

# Identifying Lead Hazards

---

**Lead-based paint** is usually not a hazard if it is in good condition, and it is not on an impact or friction surface, like a window. It is defined by the federal government as paint with lead levels greater than or equal to 1.0 milligram per square centimeter, or more than 0.5% by weight.

**Deteriorating lead-based paint (peeling, chipping, chalking, cracking or damaged)** is a hazard and needs immediate attention. It may also be a hazard when found on surfaces that children can chew or that get a lot of wear-and-tear, such as:

- ◆ Windows and window sills.
- ◆ Doors and door frames.
- ◆ Stairs, railings, banisters, and porches.

**Lead dust** can form when lead-based paint is scraped, sanded, or heated. Dust also forms when painted surfaces bump or rub together. Lead chips and dust can get on surfaces and objects that people touch. Settled lead dust can re-enter the air when people vacuum, sweep, or walk through it. The following two federal standards have been set for lead hazards in dust:

- ◆ 40 micrograms per square foot ( $\mu\text{g}/\text{ft}^2$ ) and higher for floors, including carpeted floors.
- ◆ 250  $\mu\text{g}/\text{ft}^2$  and higher for interior window sills.

**Lead in soil** can be a hazard when children play in bare soil or when people bring soil into the house on their shoes. The following two federal standards have been set for lead hazards in residential soil:

- ◆ 400 parts per million (ppm) and higher in play areas of bare soil.
- ◆ 1,200 ppm (average) and higher in bare soil in the remainder of the yard.

The only way to find out if paint, dust and soil lead hazards exist is to test for them. The next page describes the most common methods used.

---

**Lead from paint chips, which you can see, and lead dust, which you can't always see, can both be serious hazards.**

---

# Checking Your Home for Lead

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**Just knowing that a home has lead-based paint may not tell you if there is a hazard.**

---



You can get your home tested for lead in several different ways:

- ◆ A paint **inspection** tells you whether your home has lead-based paint and where it is located. It won't tell you whether or not your home currently has lead hazards.
- ◆ A **risk assessment** tells you if your home currently has any lead hazards from lead in paint, dust, or soil. It also tells you what actions to take to address any hazards.
- ◆ A combination risk assessment and inspection tells you if your home has any lead hazards and if your home has any lead-based paint, and where the lead-based paint is located.

Hire a trained and certified testing professional who will use a range of reliable methods when testing your home.

- ◆ Visual inspection of paint condition and location.
- ◆ A portable x-ray fluorescence (XRF) machine.
- ◆ Lab tests of paint, dust, and soil samples.

There are state and federal programs in place to ensure that testing is done safely, reliably, and effectively. Contact your state or local agency (see bottom of page 11) for more information, or call **1-800-424-LEAD (5323)** for a list of contacts in your area.

**Home test kits for lead are available, but may not always be accurate.** Consumers should not rely on these kits before doing renovations or to assure safety.

# What You Can Do Now To Protect Your Family

---

If you suspect that your house has lead hazards, you can take some immediate steps to reduce your family's risk:

- ◆ **If you rent, notify your landlord of peeling or chipping paint.**
- ◆ **Clean up paint chips immediately.**
- ◆ **Clean floors, window frames, window sills, and other surfaces weekly.** Use a mop or sponge with warm water and a general all-purpose cleaner or a cleaner made specifically for lead. **REMEMBER: NEVER MIX AMMONIA AND BLEACH PRODUCTS TOGETHER SINCE THEY CAN FORM A DANGEROUS GAS.**
- ◆ **Thoroughly rinse sponges and mop heads after cleaning dirty or dusty areas.**
- ◆ **Wash children's hands often, especially before they eat and before nap time and bed time.**
- ◆ **Keep play areas clean.** Wash bottles, pacifiers, toys, and stuffed animals regularly.
- ◆ **Keep children from chewing window sills or other painted surfaces.**
- ◆ **Clean or remove shoes before entering your home to avoid tracking in lead from soil.**
- ◆ **Make sure children eat nutritious, low-fat meals high in iron and calcium, such as spinach and dairy products.** Children with good diets absorb less lead.



# Reducing Lead Hazards In The Home

---

**Removing lead improperly can increase the hazard to your family by spreading even more lead dust around the house.**

**Always use a professional who is trained to remove lead hazards safely.**



In addition to day-to-day cleaning and good nutrition:

- ◆ You can **temporarily** reduce lead hazards by taking actions such as repairing damaged painted surfaces and planting grass to cover soil with high lead levels. These actions (called “interim controls”) are not permanent solutions and will need ongoing attention.
- ◆ To **permanently** remove lead hazards, you should hire a certified lead “abatement” contractor. Abatement (or permanent hazard elimination) methods include removing, sealing, or enclosing lead-based paint with special materials. Just painting over the hazard with regular paint is not permanent removal.

Always hire a person with special training for correcting lead problems—someone who knows how to do this work safely and has the proper equipment to clean up thoroughly. Certified contractors will employ qualified workers and follow strict safety rules as set by their state or by the federal government.

Once the work is completed, dust cleanup activities must be repeated until testing indicates that lead dust levels are below the following:

- ◆ 40 micrograms per square foot ( $\mu\text{g}/\text{ft}^2$ ) for floors, including carpeted floors;
- ◆ 250  $\mu\text{g}/\text{ft}^2$  for interior windows sills; and
- ◆ 400  $\mu\text{g}/\text{ft}^2$  for window troughs.

Call your state or local agency (see bottom of page 11) for help in locating certified professionals in your area and to see if financial assistance is available.

# Remodeling or Renovating a Home With Lead-Based Paint

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Take precautions before your contractor or you begin remodeling or renovating anything that disturbs painted surfaces (such as scraping off paint or tearing out walls):

- ◆ **Have the area tested for lead-based paint.**
- ◆ **Do not use a belt-sander, propane torch, high temperature heat gun, dry scraper, or dry sandpaper** to remove lead-based paint. These actions create large amounts of lead dust and fumes. Lead dust can remain in your home long after the work is done.
- ◆ **Temporarily move your family** (especially children and pregnant women) out of the apartment or house until the work is done and the area is properly cleaned. If you can't move your family, at least completely seal off the work area.
- ◆ **Follow other safety measures to reduce lead hazards.** You can find out about other safety measures by calling 1-800-424-LEAD. Ask for the brochure "Reducing Lead Hazards When Remodeling Your Home." This brochure explains what to do before, during, and after renovations.

If you have already completed renovations or remodeling that could have released lead-based paint or dust, get your young children tested and follow the steps outlined on page 7 of this brochure.



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**If not conducted properly, certain types of renovations can release lead from paint and dust into the air.**

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## Other Sources of Lead

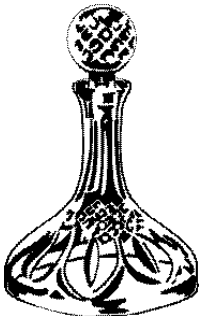
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**While paint, dust, and soil are the most common sources of lead, other lead sources also exist.**

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- ◆ **Drinking water.** Your home might have plumbing with lead or lead solder. Call your local health department or water supplier to find out about testing your water. You cannot see, smell, or taste lead, and boiling your water will not get rid of lead. If you think your plumbing might have lead in it:
  - Use only cold water for drinking and cooking.
  - Run water for 15 to 30 seconds before drinking it, especially if you have not used your water for a few hours.
- ◆ **The job.** If you work with lead, you could bring it home on your hands or clothes. Shower and change clothes before coming home. Launder your work clothes separately from the rest of your family's clothes.
- ◆ Old painted **toys** and **furniture**.
- ◆ Food and liquids stored in **lead crystal** or **lead-glazed pottery or porcelain**.
- ◆ **Lead smelters** or other industries that release lead into the air.
- ◆ **Hobbies** that use lead, such as making pottery or stained glass, or refinishing furniture.
- ◆ **Folk remedies** that contain lead, such as "greta" and "azarcon" used to treat an upset stomach.

## For More Information

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### The National Lead Information Center

Call **1-800-424-LEAD (424-5323)** to learn how to protect children from lead poisoning and for other information on lead hazards. To access lead information via the web, visit **[www.epa.gov/lead](http://www.epa.gov/lead)** and **[www.hud.gov/offices/lead/](http://www.hud.gov/offices/lead/)**.

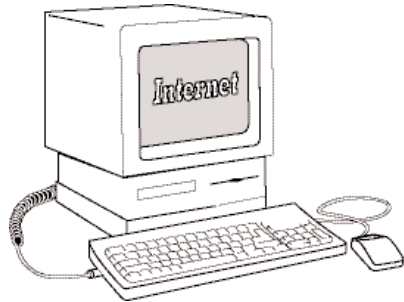


### EPA's Safe Drinking Water Hotline

Call **1-800-426-4791** for information about lead in drinking water.

### Consumer Product Safety Commission (CPSC) Hotline

To request information on lead in consumer products, or to report an unsafe consumer product or a product-related injury call **1-800-638-2772**, or visit CPSC's Web site at: **[www.cpsc.gov](http://www.cpsc.gov)**.



### Health and Environmental Agencies

Some cities, states, and tribes have their own rules for lead-based paint activities. Check with your local agency to see which laws apply to you. Most agencies can also provide information on finding a lead abatement firm in your area, and on possible sources of financial aid for reducing lead hazards. Receive up-to-date address and phone information for your local contacts on the Internet at **[www.epa.gov/lead](http://www.epa.gov/lead)** or contact the National Lead Information Center at **1-800-424-LEAD**.

For the hearing impaired, call the Federal Information Relay Service at **1-800-877-8339** to access any of the phone numbers in this brochure.

# EPA Regional Offices

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Your Regional EPA Office can provide further information regarding regulations and lead protection programs.

## EPA Regional Offices

**Region 1** (Connecticut, Massachusetts, Maine, New Hampshire, Rhode Island, Vermont)

Regional Lead Contact  
U.S. EPA Region 1  
Suite 1100 (CPT)  
One Congress Street  
Boston, MA 02114-2023  
1 (888) 372-7341

**Region 2** (New Jersey, New York, Puerto Rico, Virgin Islands)

Regional Lead Contact  
U.S. EPA Region 2  
2890 Woodbridge Avenue  
Building 209, Mail Stop 225  
Edison, NJ 08837-3679  
(732) 321-6671

**Region 3** (Delaware, Maryland, Pennsylvania, Virginia, Washington DC, West Virginia)

Regional Lead Contact  
U.S. EPA Region 3 (3WC33)  
1650 Arch Street  
Philadelphia, PA 19103  
(215) 814-5000

**Region 4** (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee)

Regional Lead Contact  
U.S. EPA Region 4  
61 Forsyth Street, SW  
Atlanta, GA 30303  
(404) 562-8998

**Region 5** (Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin)

Regional Lead Contact  
U.S. EPA Region 5 (DT-8J)  
77 West Jackson Boulevard  
Chicago, IL 60604-3666  
(312) 886-6003

**Region 6** (Arkansas, Louisiana, New Mexico, Oklahoma, Texas)

Regional Lead Contact  
U.S. EPA Region 6  
1445 Ross Avenue, 12th Floor  
Dallas, TX 75202-2733  
(214) 665-7577

**Region 7** (Iowa, Kansas, Missouri, Nebraska)

Regional Lead Contact  
U.S. EPA Region 7  
(ARTD-RALI)  
901 N. 5th Street  
Kansas City, KS 66101  
(913) 551-7020

**Region 8** (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming)

Regional Lead Contact  
U.S. EPA Region 8  
999 18th Street, Suite 500  
Denver, CO 80202-2466  
(303) 312-6021

**Region 9** (Arizona, California, Hawaii, Nevada)

Regional Lead Contact  
U.S. Region 9  
75 Hawthorne Street  
San Francisco, CA 94105  
(415) 947-4164

**Region 10** (Alaska, Idaho, Oregon, Washington)

Regional Lead Contact  
U.S. EPA Region 10  
Toxics Section WCM-128  
1200 Sixth Avenue  
Seattle, WA 98101-1128  
(206) 553-1985

## CPSC Regional Offices

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Your Regional CPSC Office can provide further information regarding regulations and consumer product safety.

### **Eastern Regional Center**

Consumer Product Safety Commission  
201 Varick Street, Room 903  
New York, NY 10014  
(212) 620-4120

### **Western Regional Center**

Consumer Product Safety Commission  
1301 Clay Street, Suite 610-N  
Oakland, CA 94612  
(510) 637-4050

### **Central Regional Center**

Consumer Product Safety Commission  
230 South Dearborn Street, Room 2944  
Chicago, IL 60604  
(312) 353-8260

## HUD Lead Office

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Please contact HUD's Office of Healthy Homes and Lead Hazard Control for information on lead regulations, outreach efforts, and lead hazard control and research grant programs.

### **U.S. Department of Housing and Urban Development**

Office of Healthy Homes and Lead Hazard Control  
451 Seventh Street, SW, P-3206  
Washington, DC 20410  
(202) 755-1785

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U.S. EPA Washington DC 20460  
U.S. CPSC Washington DC 20207  
U.S. HUD Washington DC 20410

EPA747-K-99-001  
June 2003



# Testing Your Home For Lead In Paint, Dust, And Soil





## About This Publication

This publication is for anyone who is considering having a home or residence tested for lead in paint, dust, or soil by a lead-based paint professional. It explains the technical aspects of lead testing without overwhelming the reader. Thus, commonly asked questions are presented in logical order. The first section tells why you would test for lead, the approaches for testing for lead, and what information you will get from each approach. The second section answers specific questions about how paint, soil, and dust sampling are conducted by a lead-based paint professional in your home. Finally, the last section answers other questions about testing, including questions about home test kits and testing of water and ceramics.

### Important:

This publication addresses federal regulations and guidelines. Your state may have its own lead program and different regulations. For more information, contact the National Lead Information Center (NLIC) at **1-800-424-LEAD** or visit **<http://www.epa.gov/lead>**.

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# Section 1

## General Questions About Testing Procedures



### **Q:** Why Should I Test My Home For Lead?

**A:** There are numerous reasons why you might want to test your home for lead, especially if built before 1978.

#### **I. There Are (Or Will Be) Children Age Six And Younger In The Home**

Lead from paint, especially peeling or flaking paint, can get into dust and soil in and around a home. Young children may then swallow the lead during normal hand-to-mouth activity. In addition, an unborn child may be exposed to lead in the mother's womb. High levels of lead in the fetus and in children age six and younger have been linked to nervous system damage, behavior and learning problems, and slow growth. Testing can tell you whether there is lead-based paint or a lead-based paint hazard in your home.

#### **II. You Are About To Remodel, Renovate, Or Repaint Your Home**

Any disturbance of lead-based paint can create a hazard by depositing lead chips or particles in the house dust or in the soil around the house. If you are planning on doing renovation, remodeling, or repainting, you should have testing done by a certified lead-based paint professional on any painted surfaces that will be removed, disturbed, scraped, or sanded

before starting the work. The EPA brochure *Reducing Lead Hazards When Remodeling Your Home* (see page 16) provides guidelines for renovating or remodeling your home.

If your house was built before 1978 and you hire a professional to renovate, the renovator must, before beginning renovation, give you a copy of the EPA pamphlet *Protect Your Family From Lead In Your Home*.

#### **III. You Are Renting Or Buying A Home**

The Federal Lead-Based Paint and Lead-Based Paint Hazards Disclosure Rule requires that the landlord or seller of a residential dwelling built prior to 1978 provide the renter or buyer with:

- The pamphlet *Protect Your Family From Lead In Your Home* and
- Any available information on lead-based paint or lead-based paint hazards in the home.

A buyer must be given the opportunity to conduct testing to determine whether lead-based paint or lead-based paint hazards are present. While you are not required by law to test for lead, it may be advisable if you have (or plan to have) young children in the home.

#### IV. You Are A Landlord Or Selling A Home

As discussed above, a homeowner is required to provide renters or buyers with any available information on lead-based paint or lead-based paint hazards in homes built before 1978. Testing will give you the information that may be requested by potential renters or buyers.

#### Q: Why Is Testing Recommended For Houses Built Before 1978?

A: Federal regulations placed a limit on the amount of lead in paint sold for residential use starting in 1978. That is why homes built before 1978 are subject to the Disclosure Rule. The older the home, the greater the chance of lead-based paint and lead-based paint hazards, and the more important it is to have the home tested.



#### Q: What Kind Of Testing Do I Want?

A: Three different approaches for testing lead are available: a lead-based paint inspection, a risk assessment, and a lead hazard screen. A combination inspection and risk assessment may also be done. Selection of the approach depends on why you are testing.

#### I. Lead-Based Paint Inspection

A lead-based paint *inspection* is a surface-by-surface investigation to determine whether there is lead-based paint in the home and where it is located. An inspection may be particularly useful before renovation, repainting, or paint removal.

An inspection includes:

- An inventory of all painted surfaces, including the outside as well as the inside of the home. 'Painted surfaces' include all surfaces coated with paint, shellac, varnish, stain, coating, or even paint covered by wallpaper.
- Selection and testing of each type of painted surface.

Then you should get a report listing the painted surfaces in the home and whether each painted surface contains lead-based paint.

An inspection does not typically test painted furniture unless it is a permanent part of the home, such as kitchen or bathroom cabinets or built-in bookshelves. Soil, dust, and water are not typically tested during an inspection.

The presence of lead-based paint in a home does not necessarily mean there is a lead-based paint hazard to occupants. To make sure, you may want a different testing approach (either a risk assessment or hazard screen).

## Typical Painted Surfaces Tested During Inspection

Inside The Home		Outside The Home	
Baseboards	Heating Units	Chimneys	Mailboxes
Built-In Cabinets	Railings	Door Trim	Porches
Ceilings	Shelves	Fascia, Soffits	Roofing
Chair Rails	Stairs	Fences	Siding
Doors	Walls	Gutters, Downspouts	Stairs
Fireplaces	Windows	Handrails	Sheds
Floors		Lattice Work	Swing Sets

## II. Risk Assessment

A *risk assessment* is an on-site investigation to determine the presence, type, severity, and location of lead-based paint hazards. The presence of deteriorated lead-based paint or high levels of lead in dust or soil pose potential hazards to children who may ingest lead inside or playing outside.

A risk assessment includes:

- A visual inspection of the residence to determine the location of deteriorated paint, the extent and causes of the deterioration, and other factors that may cause lead exposure to young children inside or outside the home.
- Testing deteriorated paint and paint on surfaces where there is reason to believe (from teeth marks or from reports of a parent) that a child has chewed, licked, or mouthed the paint. Painted surfaces in good condition are not tested.
- Testing household dust from floors and windows. Samples should include areas from a child's bedroom, a child's main play area, the main entrance, and other locations to be chosen by the certified Risk Assessor.

- Testing bare soil from play areas, the building foundation, and possibly other areas around the home.
- Optional water testing.

Finally, you should get a report identifying the location of the types of lead-based paint hazards and ways to control them. Because not all paint is tested, a risk assessment cannot conclude that there is no lead-based paint in the home.



An important point is that a risk assessment identifies current lead-based paint hazards. New hazards may arise if lead-based paint is disturbed, damaged, or deteriorates.

If you want to know which painted surfaces contain lead-based paint and whether any lead-based hazards are present, you will need a combination inspection and risk assessment.

### III. Lead Hazard Screen

A *lead hazard screen* is a limited version of a risk assessment for houses with a low chance of lead risks.

In a lead hazard screen:

- Any painted surfaces in a deteriorated condition are tested.
- Two sets of dust samples are collected in a lead hazard screen. One set represents the floors and the other set represents the windows. Typically, there is less dust sampling in a lead hazard screen than in a risk assessment.
- Usually soil samples are not collected in a lead hazard screen, with one exception. If there is evidence of paint chips in the soil from previous exterior repainting, then the soil should be sampled and tested.

The outcome of the lead hazard screen is either a conclusion that lead-based paint hazards are probably not present or a recommendation that a full risk assessment be conducted to determine if such hazards are present.

In a lead hazard screen, only deteriorated paint is tested. Thus, a lead hazard screen cannot conclude there is no lead-based paint in the home.

A lead hazard screen is only recommended for residences that are generally in good condition, with little visible dust, and with paint in good condition (very little chipping or flaking).

If not, the screen is likely to be a waste of time and money. In general, a lead hazard screen will be more useful in housing built after 1960.

As with a risk assessment, a lead hazard screen identifies current lead-based paint hazards. If there is lead-based paint in the home, new hazards may arise if that paint is disturbed, damaged, or deteriorates.



#### Q: Who Can Do Lead Testing For Me?

A: It is strongly recommended that testing be performed by a certified Inspector or certified Risk Assessor.

- Certified Inspectors can perform only lead-based paint inspections.
- Certified Risk Assessors can perform both risk assessments and lead hazard screens.

Your state may define the titles for lead-based paint professionals and the types of testing they can perform differently from what this brochure says. You can find out by calling NLIC at **1-800-424-LEAD**.

## Q: What Will The Testing Report Tell Me?

A: That will depend on which approach has been used: inspection, risk assessment, or lead hazard screen. Request a sample report before the testing is done so that you may see what information will be provided and how it will be presented. You should also request that actual lead values (not just 'positive' or 'negative' classifications) be provided in the report as evidence that the testing was actually done.

### I. Inspection Report

If you have an inspection done, you should receive a report that tells you which painted surfaces were tested and the test results for each surface. An inspection report will not tell you the condition of the lead-based paint or whether lead-based paint hazards exist.

### II. Risk Assessment Report

If you have a risk assessment done, you will receive a report that tells you whether there are any lead-based paint hazards and recommends ways to reduce or control any hazards present.

The certified Risk Assessor will take into account the test results and the results of the visual inspection to decide if there are any lead-based paint hazards and how to control them. Lead-based paint hazards identified include lead-based paint in deteriorated condition or on surfaces mouthed by a child. In addition, house dust or bare soil with hazardous lead levels will be identified.

The certified Risk Assessor will provide a list of options for controlling each hazard. Options may include both interim controls and abatement.

- *Interim Controls* – These are short-term or temporary actions. Examples include recommendations to repair deteriorated surfaces that contain lead-based paint, to clean house dust more frequently, or to plant grass or shrubs in areas with bare soil.

- *Abatement* – These are long-term or permanent actions. Examples include replacing old windows, building a new wall over an existing one, or removing soil.

The certified Risk Assessor will also identify the probable source of the paint deterioration and determine whether other repairs are warranted. For example, a water leak may need to be repaired to prevent further damage to the paint.

### III. Hazard Screen Report

If you have a lead hazard screen done, the report tells you either that there are probably no lead-based paint hazards in the house or that full-scale risk assessment is needed.

## Q: Do I Have To Do Anything After The Testing Is Completed?

A: There is no EPA requirement for you to do anything to any lead-based paint or lead-based paint hazards found when testing your home. However, if your home was built before 1978, you will be required to provide the test results to any renter or buyer when you lease or sell the home. For more information on the responsibilities of sellers, landlords and their agents, contact NLIC at **1-800-424-LEAD** or visit <http://www.epa.gov/lead>.

Be aware that there may be state or other requirements for action based on the test results. You can call NLIC at **1-800-424-LEAD** for information about what is required in your locality before you start testing.

**Q: May I Abate Lead-Based Paint Hazards In My Own Home?**

**A:** If you decide to abate lead-based paint hazards in your own home, it is not recommended that you do the work yourself. Abatement activities must be done following careful procedures to prevent contamination of the home with lead dust. To be safe, hire a certified lead-based paint contractor (a certified professional who can do lead-based paint related abatement). Dust samples should be collected to check the thoroughness of the work.

Be aware that you must be certified yourself or you must hire a certified lead-based paint professional in the following cases: 1) if a child with a blood-lead level of 20  $\mu\text{g}/\text{dL}$ \* or

higher for a single venous test (or 15–19  $\mu\text{g}/\text{dL}$  in two consecutive tests taken 3 to 4 months apart) lives in the house or 2) you own the house and rent it to someone else.

If you hire a firm to do testing for lead-based paint hazards, note that you are not under any obligation to hire the same firm to do the abatement. In fact, it would be better to have one firm conduct all testing and another firm conduct the abatement work. That will prevent a conflict of interest.

Be sure to maintain a record of the work to help during any future sale or rental of the home.



\*Pronounced micrograms of lead per deciliter of blood.

## Section 2

# Specific Questions About Testing Paint, Dust, And Soil



### **Q:** Are All Painted Surfaces In The Home Tested?

**A:** Not every single painted surface in the home will be tested in an inspection, but all types of painted surfaces are tested. For example, a room may have three windows, all painted the same color and all made out of wood. The certified Inspector may not test all three windows, because they appear to be the same.

In a similar fashion, the certified Inspector will go through every room and test the different types of painted surfaces in the rooms. Painted surfaces on the outside of the home, detached structures (such as garages), and items like painted fences and swing sets should also be tested.

Inspections differ from risk assessments and lead hazard screens. In a risk assessment, only deteriorated paint and paint that has been mouthed or chewed by a child will be tested. In a lead hazard screen, only deteriorated paint is tested.

### **Q:** How Are Painted Surfaces Tested?

**A:** There are currently two methods recognized by EPA for testing paint: portable X-Ray Fluorescence (XRF) analyzers and paint chip sampling followed by analysis by a laboratory recognized by EPA's National Lead Laboratory Accreditation Program (NLLAP).

#### **I. Portable X-Ray Fluorescence Analyzers (XRFs)**

A portable XRF measures lead in paint, generally without damaging the paint. However, readings from some XRFs are affected by the base material (known as the "substrate") underneath the paint, such as wood, plaster, or metal. For these cases, the certified Inspector removes paint from a few surfaces of each type and takes a measurement on the unpainted surface. These measurements provide a baseline to adjust the lead in paint value. This procedure may do some paint damage. Also, for curved surfaces or very deteriorated paint, XRF analyzers may not read accurately and a paint chip sample may be required.

When a certified lead-based paint professional follows good testing practices,

XRF analyzers provide a fast and reliable method for classifying many painted surfaces. However, some XRF test results may be inconclusive (neither positive nor negative). Then laboratory testing of a paint chip sample may be necessary.

Because the XRF analyzer uses a radiation source to detect lead, occupants in the household should be asked to stay out of rooms behind the surfaces being tested.

## II. Paint Chip Sampling And Laboratory Analysis

Paint chip samples are collected for laboratory analysis by removing one to four square inches of paint from the surface. All layers of paint in the sampled area are included in the sample. Usually samples will contain some of the material beneath the paint, such as wood, plaster, or concrete particles. The amount of this material will be kept to a minimum.

Tools such as chisels and scrapers are used to remove the paint. Sometimes a heat gun is used to soften the paint and make the removal easier. If so, a respirator should be worn by the person operating the heat gun for protection from lead and other fumes. In addition, the room or area should be well ventilated to protect occupants.

After collecting the paint chip sample, the certified lead-based paint professional will repair the scraped area so that adjacent paint will not peel or flake off. Any paint chips or dust from the sampling should be cleaned up by the certified lead-based paint professional to ensure no lead dust is left behind.

Paint chip samples should be analyzed for lead by a laboratory recognized by EPA's NLLAP as proficient for testing lead in paint. EPA has established the NLLAP to ensure that laboratory analyses are done accurately. A laboratory on the list is recognized as proficient for testing for lead in whichever of the three sample types (paint, dust, or soil) the laboratory has qualified. The certified Inspector and certified Risk Assessor must ensure that any paint

chip samples from your home are analyzed by a laboratory on the NLLAP list for paint. This publication addresses federal regulations and guidelines. Your state may have its own lead program and different regulations. For more information, contact NLIC at **1-800-424-LEAD** or visit <http://www.epa.gov/lead>.

While paint chip sampling followed by laboratory analysis is generally more accurate than XRF testing, sampling and analysis take longer to complete and paint chips must be scraped from many surfaces in the home. In some cases, a surface may be curved or so deteriorated that an XRF cannot be used properly and sampling may be the only way to test the paint.

### Q: What Do The Results Of Paint Testing Mean?

A: A certified lead-based paint professional will use guidance specific for each type of XRF analyzer to determine whether a measurement indicates that:

- Lead-based paint is present,
- Lead-based paint is not present, or
- The measurement is inconclusive and a laboratory test is necessary.

The guidance ensures the XRF measurement classifies paint as lead-based when there is 1.0 milligram of lead per square centimeter of painted surface or greater (1.0 mg/cm<sup>2</sup>). An XRF analyzer typically reads in mg/cm<sup>2</sup>, meaning milligrams per square centimeter.

When the paint chip sampling followed by laboratory analysis method is used, the federal definition of lead-based paint is dependent on how the results are reported.

- If the laboratory report is expressed as weight of lead per weight of paint chip, the federal definition of lead-based paint is 0.5 percent lead (0.5%). This is mathematically the same as 5,000 milligrams of lead per kilogram of

## Federal Definition Of Lead-Based Paint Depends On How Test Results Are Reported

How Test Results Are Reported	Federal Definition Of Lead-Based Paint
If results are reported as percent (or equivalent)	Then, in order for it to be considered lead-based paint, the paint must have greater than or equal to 0.5% (which is the same as 5,000 µg/g or 5,000 mg/kg or 5,000 ppm) lead
If results are reported as milligrams per square centimeter	Then, in order for it to be considered lead-based paint, the paint must have greater than or equal to 1 mg/cm <sup>2</sup> lead

paint chip (5,000 mg/kg), or 5,000 micrograms of lead per gram of paint chip (5,000 µg/g), or 5,000 parts per million lead (5,000 ppm).

- If the laboratory report is expressed as a weight of lead per unit area of painted surface, the federal definition of lead-based paint is 1.0 mg/cm<sup>2</sup> (the same as for XRF analysis).

It is possible to report laboratory results in both types of units, but this is rarely done because of the additional time and work required.



Unfortunately, there is no universal definition of lead-based paint. Some state and local governments have definitions of lead-based paint which differ from those in federal law. It is recommended that when there is a conflict between the federal definition and a state or local definition, the more stringent standard (that is, the lower number) be used to define

lead-based paint. A certified lead-based paint professional (certified Inspector or certified Risk Assessor) will be aware of and will follow the appropriate standard.

### Q: What If No Lead-Based Paint Is Found In My Home?

A: Lead can still be present in paint which is not classified as “lead-based.” This would occur when the paint has a lower amount of lead than the federal government regulates. If lead is present in the paint, lead dust can be released when the paint deteriorates, or is disturbed during remodeling, renovation,



sanding, or some maintenance work that breaks the surface of the paint. This is especially important in homes built before 1978. Since the amount of lead in paint was limited by federal regulation in 1978, lead exposure during remodeling and renovation is not as much a concern in newer homes. So you should be careful when there is work that involves extensive breaking of painted surfaces in a home built before 1978. Make sure any dust and debris created by breaking painted surfaces are thoroughly cleaned up, painted surfaces are repaired and left intact when the work is done, and children stay away from the work areas until all repairs and clean-up are completed.

The EPA brochure *Reducing Lead Hazards When Remodeling Your Home* provides guidelines for renovating and remodeling your home. See page 16 for more information on how to order the brochure.

### **Q: How Are Dust Samples Collected And Analyzed?**

**A:** The most common method for dust collection is a surface wipe sample. Most certified Risk Assessors will use baby wipes or wet wipes to collect dust.

If dust is collected from a floor, an area of one square foot is usually sampled. The area is wiped several times in different directions to pick up all the dust. After sampling, the wipe is placed in a container and sent to a laboratory for analysis. The certified Risk Assessor will also collect wipe samples from windows and measure the surface area wiped.

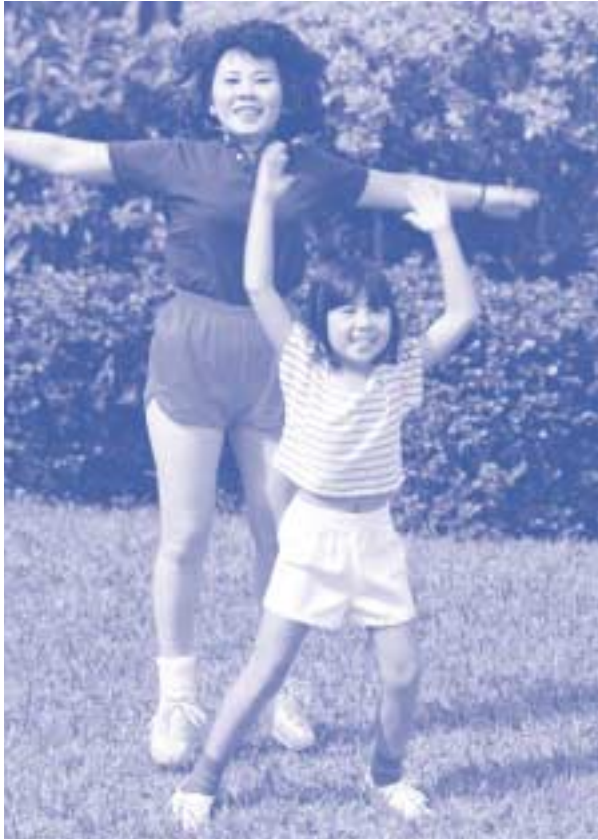
In some situations, special types of vacuum samplers may be used for dust collection. These are different from home vacuum cleaners, although some may look the same.



The certified lead-based paint professional must send dust samples to a laboratory recognized by EPA's NLLAP that is proficient for dust analysis. This publication addresses federal regulations and guidelines. Your state may have its own lead program and different regulations. For more information, contact NLIC at **1-800-424-LEAD** or visit <http://www.epa.gov/lead>.

### **Q: What Do The Results Of Dust Sampling Mean?**

**A:** Dust sample results are usually expressed as a weight of lead per unit area of surface. The units will usually be micrograms of lead per square foot. For example, a floor wipe sample may be expressed as 50 micrograms of lead per square foot. This is written as 50  $\mu\text{g}/\text{ft}^2$ . The certified lead-based paint professional will provide guidance in interpreting the results of the dust testing.



**Q: How Are Soil Samples Collected And Analyzed?**

**A:** Soil samples are collected from bare soil areas (soil with no grass or other covering) near your home where children play and from bare soil areas near the house foundation or dripline. Optional sampling areas are gardens, pathways, and pet sleeping areas. Samples are collected by coring or scooping methods that take the top half-inch of soil. Samples of non-bare soil may sometimes be collected.

Soil samples must be sent to a laboratory recognized by EPA's NLLAP that is proficient in soil analysis. This publication addresses federal regulations and guidelines. Your state may have its own lead program and different regulations. For more information, contact NLIC at **1-800-424-LEAD** or visit <http://www.epa.gov/lead>.

**Q: What Do The Results Of Soil Testing Mean?**

**A:** Results of soil samples are expressed as a weight of lead per unit weight of soil, usually in parts per million. For example, a soil sample result may be 300 parts per million. This is written 300 ppm. The certified lead-based paint professional will help you interpret the results of the soil testing.

**Q: What Are Composite Samples?**

**A:** Composite samples are combinations of individual samples analyzed together in a laboratory to obtain a single average result. Both dust and soil samples may be composited. For example, a floor dust sample may be collected in each of three rooms and combined to obtain one composite dust sample to be analyzed by the laboratory. Or four soil samples taken in a play area may be combined to obtain one composite soil sample. Paint samples may also be composited, but this is not as common as compositing dust and soil samples.

Composite samples may often be used in risk assessments and lead hazard screens to reduce the cost of laboratory analysis or to increase the representativeness of a single sample. The disadvantage of composite samples is that information is not available for each room (or location) from which samples were collected.

The certified Risk Assessor will interpret composite sample results, if any. The advantage of composite samples is that information is obtained at reduced cost or more samples are collected for the same cost.

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## Section 3

# Miscellaneous Questions Frequently Asked About Testing



### **Q: What Are Home Test Kits?**

**A:** Home test kits are used in the home to detect lead in paint, soil, and dust (and, in some cases, water, dishware, glasses, and ceramics). A reaction occurs causing a color change when chemicals in the kit are exposed to lead.

### **Q: Does EPA Recommend Test Kits For Paint, Dust, Or Soil Testing?**

**A:** No. EPA does not currently recommend home test kits to detect lead in paint, dust, or soil. Studies show that these kits are not reliable enough to tell the difference between high and low levels of lead. At this time, the kits are not recommended for testing performed by either homeowners or certified lead-based paint professionals.

### **Q: May I Collect Paint, Dust, And Soil Samples Myself And Send Them To A Laboratory?**

**A:** You may do this, although your samples may not be of the same quality as those collected by a certified lead-based paint professional. If you want to collect samples yourself, it is recommended that you send paint, dust, or soil samples to a laboratory recognized by EPA's NLLAP. A list of NLLAP laboratories is available from NLIC by calling **1-800-424-LEAD**. If the samples contain high levels of lead, you should have a certified lead-based paint professional do a risk assessment of your home.

### **Q: What About Testing For Lead In Water?**

**A:** Lead pipes and lead solder were once used in plumbing and lead leaked into drinking water. Water testing is not routinely conducted by certified lead-based paint testing professionals, but you may ask for it as an optional service. If you

would like information about testing for lead in water, call the EPA Drinking Water Hotline at **1-800-426-4791**.

**Q: What About Testing For Lead In Furniture, Dishware, And Mini-Blinds?**

**A:** Lead may be present in the paint on furniture. If the furniture is old or the paint is damaged, you may want to have it tested. A certified Inspector or certified Risk Assessor may do this testing for you.

Lead may also be present in some glassware (for example, lead crystal) and in glazes found on ceramic ware. The lead may be absorbed into the drink and food stored in these items.

Contact NLIC at **1-800-424-LEAD** or the Food and Drug Administration (FDA) Food Information Line at **1-800-FDA-4010** for information on testing glassware and ceramics or access the FDA webpage at **<http://vm.cfsan.fda.gov/~dms/lead.html#advice>**.

The Consumer Product Safety Commission (CPSC) has issued a warning that some mini-blinds may contain lead. For further information, contact the CPSC hotline at **1-800-638-2772** or access the CPSC webpage at **<http://www.cpsc.gov/cpscpub/prerel/prhtml96/96150.html>**.



## Contacts For Further Information:

Topic	Agency	Contact Information
Testing ceramic ware and related items	Food and Drug Administration (FDA) Food Information Line	1-800-FDA-4010 <a href="http://vm.cfsan.fda.gov/~dms/lead.html#advice">http://vm.cfsan.fda.gov/~dms/lead.html#advice</a>
Information on lead in mini-blinds	Consumer Product Safety Commission (CPSC)	1-800-638-2772 <a href="http://www.cpsc.gov/cpsc/pub/prerel/prhtml96/96150.html">http://www.cpsc.gov/cpsc/pub/prerel/prhtml96/96150.html</a>
State lead programs and regulations, Current list of NLLAP laboratories, Lead brochures and fact sheets, General lead hazard information	National Lead Information Center (NLIC)	1-800-424-LEAD OR for the hearing impaired 1-800-877-8339 <a href="http://www.epa.gov/lead/nlic.htm">http://www.epa.gov/lead/nlic.htm</a>
EPA and HUD related web sites	Environmental Protection Agency Housing and Urban Development	<a href="http://www.epa.gov/lead">http://www.epa.gov/lead</a> <a href="http://www.hud.gov/lea">http://www.hud.gov/lea</a>
Information on testing drinking water for lead	EPA Drinking Water Hotline	1-800-426-4791
Information on state and territory lead professional and contractor certification and licensing	EPA Regional Offices  Region 1 CT, ME, MA, NH, RI, VT  Region 2 NJ, NY, PR, VI  Region 3 DE, DC, MD, PA, VA, WV  Region 4 AL, FL, GA, KY, MS, NC, SC, TN  Region 5 IL, IN, MI, MN, OH, WI  Region 6 AR, LA, NM, OK, TX  Region 7 IA, KS, MO, NE  Region 8 CO, MT, ND, SD, UT, WY  Region 9 AS, AZ, CA, GU, HI, NV, NP  Region 10 AK, ID, OR, WA	1-617-918-1524  1-732-321-6671  1-215-814-2084  1-404-562-8998  1-312-886-7836  1-214-665-7577  1-913-551-7518  1-303-312-6021  1-415-744-1069  1-206-553-1985

### **Additional Reading:**

These brochures and fact sheets can be obtained by calling NLIC at **1-800-424-LEAD** or visiting **<http://www.epa.gov/lead>**.

*Buying A Home? Here's What You Need To Know About Lead-Based Paint*, EPA brochure, EPA publication number EPA 747-F-99-001 (January 2000).

*Lead In Your Home: A Parent's Reference Guide*, EPA brochure, EPA publication number EPA 747-B-99-003 (May 1999).

*Protect Your Family From Lead In Your Home*, EPA/CPSC/HUD brochure, EPA publication number EPA 747-K-99-001 (April 1999).

*Reducing Lead Hazards When Remodeling Your Home*, EPA brochure, EPA publication number EPA 747-K-97-001 (September 1997).

*Runs Better Unleaded: How to Protect Your Children from Lead Poisoning*, EPA brochure, EPA publication number EPA 747-F-99-005A (August 1999).

*Selecting a Laboratory for Lead Analysis: The EPA National Lead Laboratory Accreditation Program*, EPA brochure, EPA publication number EPA 747-F-99-002 (April 1999).

*The Lead-Based Paint Pre-Renovation Education Rule*, EPA handbook, EPA publication number EPA 747-B-99-004 (September 1999).

*Disclosure of Lead-Based Paint Hazards in Housing*, EPA/HUD fact sheet, EPA publication number EPA 747-F-96-002 (March 1996).



# The Lead-Based Paint Pre-Renovation Education Rule

*a handbook  
for contractors,  
property managers,  
and maintenance  
personnel*



## What Is The Lead-Based Paint Pre-Renovation Education Rule (Lead PRE)?

- The Lead PRE Rule is a Federal regulation affecting construction contractors, property managers, and others who perform **renovations** for **compensation** in residential housing that may contain lead-based paint.
- It applies to residential houses and apartments built before 1978.
- It requires distribution of the **lead pamphlet**, *Protect Your Family from Lead in Your Home*, to the owners and occupants before starting **renovation** work.
- **Renovation** includes most repair, remodeling, and maintenance activities that disturb painted surfaces.
- Lead PRE implements Section 406(b) of the Toxic Substances Control Act (TCSA).

## About This Handbook

- This handbook summarizes Lead PRE and how to comply with it. To ensure compliance, you should also read the rule.
- Key terms are highlighted in **bold** and are explained on pages 8-10.

## Who Should Read This Handbook?

- Anyone who owns or manages housing built before 1978.
- Contractors who perform **renovations** (including certain repairs and maintenance) which disturb paint in homes built before 1978.

## How Can This Handbook Help Me?

- This handbook presents simple steps to follow to comply with Lead PRE. It also lists ways these steps can be easily incorporated into your work.
- Having demonstrated knowledge of lead requirements and safety practices can mean more business for you.
- Distributing the **lead pamphlet** to your customers and tenants can help them protect themselves and their children from the hazards of lead-based paint.
- This handbook describes the law. It also explains the proper steps to take to avoid potentially significant civil (monetary) and criminal fines and penalties.

# What Does Lead PRE Require Me To Do?

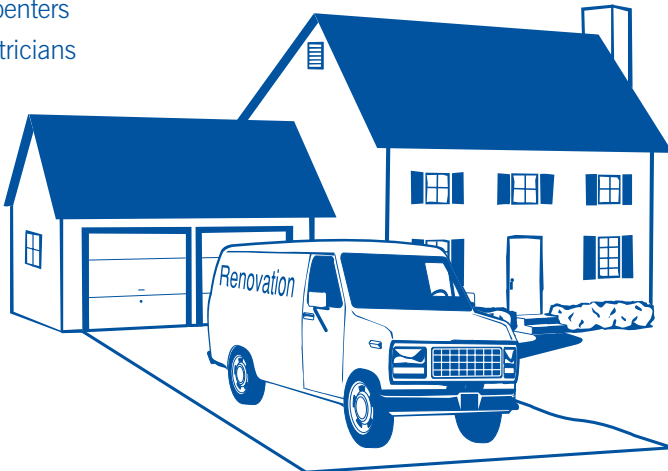
1. Distribute a **lead pamphlet** to the housing **owner** and occupants before **renovation** starts.
2. Obtain **confirmation of receipt of lead pamphlet** (see page 11) from owner and occupants or a **certificate of mailing** from the post office.
3. For work in **common areas** of **multi-family housing**, distribute **renovation notices** to tenants.
4. Retain records for 3 years.

*(See page 4 for more details)*

# Who Must Follow These Requirements?

In general, anyone whose compensated work disturbs paint in housing built before 1978, including:

- Residential rental property owners/managers
- **General contractors**
- **Special trade contractors**, including
  - Painters
  - Plumbers
  - Carpenters
  - Electricians



## What Types Of Activities Are Subject To Lead PRE?

In general, any activity that disturbs paint in pre-1978 housing, including:

- Remodeling and repair/maintenance
- Electrical work
- Plumbing
- Painting
- Carpentry
- Window replacement

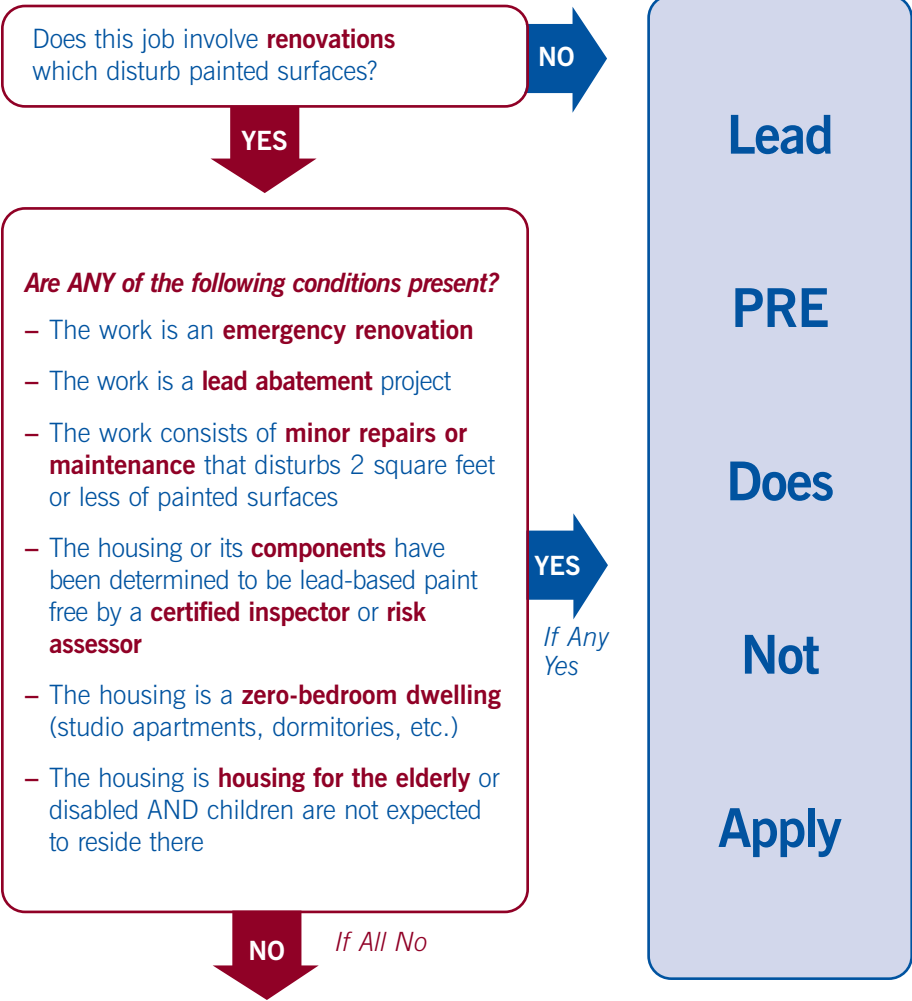


## What Housing Or Activities Are Excluded From Lead PRE?

- Housing built in 1978 or later
- **Housing for the elderly** or disabled persons (unless children will reside there)
- **Zero-bedroom dwellings** (studio apartment, dormitories, etc.)
- Housing or **components** declared lead-free by a **certified inspector** or **risk assessor**
- **Emergency renovations** and repairs
- **Minor repairs and maintenance** that disturb two square feet or less of paint per **component**

# Lead PRE At-A-Glance

If you will be working for **compensation** in a pre-1978 home or apartment building, answer the questions below to determine if Lead PRE requires you to give the **lead pamphlet** to the **owner** and occupants.



*If no, then you need to provide the lead pamphlet (see page 4).*

# How Do I Meet The Lead PRE Requirements?

## Renovation Location

## Procedures to Follow

### Renovations in Owner-Occupied Dwelling Units

#### Box 1

Deliver **lead pamphlet** to **owner** before **renovation** begins and obtain **confirmation of receipt**.

**OR**

Mail lead pamphlet to owner 7 days before renovation begins and document with **certificate of mailing**

### Renovations in Tenant-Occupied Dwelling Units

#### Box 2

1. Provide **lead pamphlet** to **owner** using either procedure described in Box 1 above.
2. Provide lead pamphlet to tenant by either method below:

(a) Deliver pamphlet to dwelling unit before **renovation** begins and document delivery with either a **confirmation of receipt** of lead pamphlet or a **self-certification of delivery**.

**OR**

(b) Mail lead pamphlet to tenant at least 7 days prior to renovation and document with a **certificate of mailing**

### Renovations in Common Areas of Multi-Family Housing Units

#### Box 3

1. Provide **owner** with **lead pamphlet** using either procedure described in Box 1 above.
2. Notify tenants and make pamphlet available.
3. Maintain written documentation describing notification procedures.
4. Provide **supplemental renovation notice** if changes occur in location, timing, or scope of renovation occurring.

*For all options keep records for 3 years after renovation is completed.  
(Sample Forms on pages 11 and 12.)*

## Special Circumstances

### **Is painting considered renovation, even if no surface preparation activity occurs?**

No. If the surface to be painted is not disturbed by sanding, scraping, or other activities that may cause dust, the work is not considered renovation and Lead PRE does *not* apply.

### **What if I renovate my own home?**

Lead PRE applies only to **renovations** performed for **compensation**; therefore, if you work on your own home Lead PRE does not apply.

### **Is a renovation performed by a landlord or employees of a property management firm considered a compensated renovation under Lead PRE?**

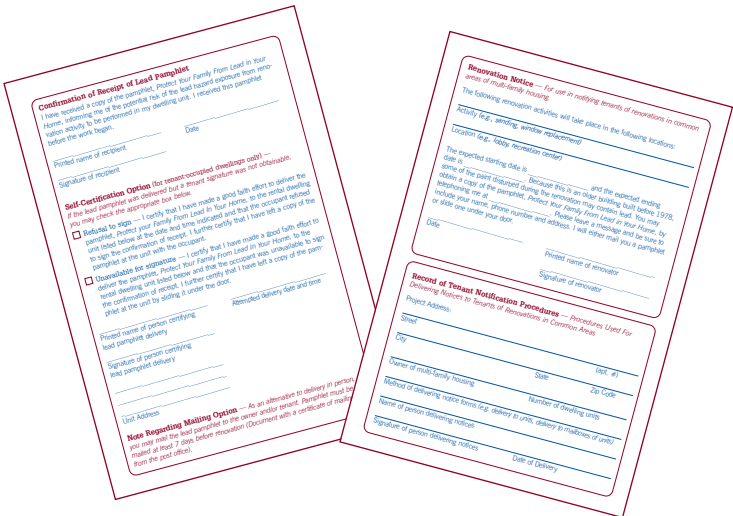
Yes. The receipt of rent payments or salaries derived from rent payments is considered **compensation** under Lead PRE. Therefore, **renovation** activities performed by landlords or employees of landlords are covered.

### **Do I have to give out the lead pamphlet 7 days prior to beginning renovation activities?**

The 7-day advance delivery requirement applies only when you deliver the **lead pamphlet** via mail; otherwise, you may deliver the pamphlet *anytime* before the **renovation** begins. Note, however, that the renovation must begin within 60 days of the date that the pamphlet is delivered. So for example, if your renovation is to begin May 30, you may deliver the pamphlet in person anytime between April 1 and start of the project on May 30, or you may deliver the pamphlet via mail anytime between April 1 and May 23.

# Tips For Easy Compliance

1. Copy and use the sample forms on pages 11 and 12 of this handbook.
2. Attach the forms to the back of your customer **renovation** or repair contracts. The completed forms can be filed along with your regular paperwork.
3. If a tenant is not home or refuses to sign the form, you may use the “self-certification” section of the form (*on page 11*) to prove delivery. This will reduce your paperwork.
4. Plan ahead to obtain enough copies of the **lead pamphlet**.



## Where Can I Obtain More Information on Lead PRE?

Further information is available from the National Lead Information Clearinghouse (800-424-LEAD) or through the Internet ([www.epa.gov/lead](http://www.epa.gov/lead)). Available resources include:

- Full text version of Lead PRE
- Interactive software which guides the users through the Lead PRE requirements on a step-by-step basis (*available in late June*)
- Interpretive guidance which provides more detailed information on Lead PRE requirements

## Why is Lead Paint Dangerous?

People can ingest lead by breathing or swallowing lead-based paint dust or by eating lead-contaminated soil or lead-based paint chips. Household animals are also at risk.

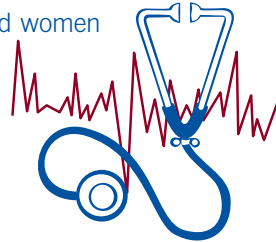
**If not detected early, high levels of lead in a child can cause serious effects, including:**

- Damage to the brain and nervous system
- Behavior and learning problems
- Slowed growth
- Hearing problems
- Headaches



**Lead is also harmful to adults and can, among other effects, cause:**

- Difficulties during pregnancy
- Other reproductive problems for men and women
- High blood pressure
- Digestive problems
- Nerve disorders
- Memory and concentration problems
- Muscle and joint pain



**Lead can be dangerous to workers and their families if the worker brings equipment and clothing home after a job.**

## Other Resources

For additional information on how to protect yourself and your customers from lead paint hazards, call the National Lead Information Clearinghouse at 1-800-424-LEAD. Available documents include:

- *Lead-Based Paint: Operations and Maintenance Work Practices Manual for Homes and Buildings*
- *Lead Safety for Property Owners, Developers, and Managers*
- *Reducing Lead Hazards When Remodeling Your Home*
- *Lead in Your Home: A Parents' Reference Guide*
- *Lead Paint Safety: A Field Guide for Painting, Home Maintenance, and Renovation Work*

# Key Terms

**Certificate of Mailing** — written verification from the Postal Service that you mailed the lead pamphlet to an owner or a tenant. This is less expensive than certified mail, which is also acceptable for meeting Lead PRE requirements. (**Note:** *If using this delivery option, you must mail the pamphlet at least 7 days prior to the start of renovation.*)

**Certified Inspector or Risk Assessor** — an individual who has been trained and is certified by EPA or an authorized state or Indian Tribe to conduct lead-based paint inspections or risk assessments.

**Common Area** — a portion of a building that is generally accessible to all residents or users. Common areas include (but are not limited to) hallways, stairways, laundry rooms, recreational rooms, playgrounds, community centers, and fenced areas. The term applies to both interiors and exteriors of the building. (**Note:** *Lead PRE requirements related to common areas apply only to multi-family housing.*)

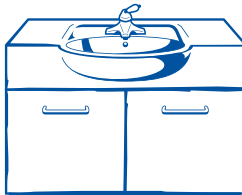
**Compensation** — payment or goods for services rendered. Payment can be in the form of money, goods, or services (bartering).

**Component** — specific design or structural element or fixture distinguished by its form, function, and location. A component can be located inside or outside the dwelling.

### Examples

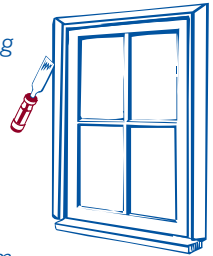
#### Interiors

- Ceilings
- Crown molding
- Walls
- Doors and trim
- Floors
- Fireplaces
- Radiators
- Shelves
- Stair treads
- Windows and trim
- Built-in cabinets
- Beams
- Bathroom vanities
- Counter tops
- Air conditioners



#### Exterior

- Painted roofing
- Chimneys
- Flashing
- Gutters and downspouts
- Ceilings
- Soffits
- Doors and trim
- Fences
- Floors
- Joists
- Handrails
- Window sills and sashes
- Air conditioners



**Confirmation of Receipt of Lead Pamphlet** — a form that is signed by the owner or tenant of the housing confirming that they received a copy of the lead pamphlet before the renovation began. (See sample on page 11.)

## Key Terms (continued)

**Emergency Renovation** — unplanned renovation activities done in response to a sudden, unexpected event which, if not immediately attended to presents a safety or public health hazard, or threatens property with significant damage.

*Examples 1: Renovation to repair damage from a tree that fell on a house  
2: Renovation to repair a water pipe break in an apartment complex*

**General Contractor** — one who contracts for the construction of an entire building or project, rather than for a portion of the work. The general contractor hires subcontractors (e.g. plumbing, electrical, etc.), coordinates all work, and is responsible for payment to subcontractors.

**Housing for the Elderly** — retirement communities or similar types of housing specifically reserved for households of one or more persons 62 years of age or older at the time the unit is first occupied.

**Lead Abatement** — work designed to permanently eliminate lead-based paint hazards. If you are hired to do lead-abatement work only, Lead PRE does not apply. Abatement does not include renovation, remodeling, landscaping, or other activities done to repair, restore, or redesign a given building — even if these activities incidentally reduce lead-based paint hazards. (**Note:** Some states define this term differently than described above. Consult your state officials if you are not sure how “lead abatement” is defined in your state.)

**Lead Pamphlet** — the pamphlet *Protecting Your Family From Lead in Your Home*, or an EPA-approved alternative pamphlet. (See page 13 for information on obtaining copies.)

**Minor Repair and Maintenance** — minor repair and maintenance activities, such as minor electrical work or plumbing, that disturb two square feet or less of painted surface per component.

*Examples 1: Drilling holes in the wall to run an electrical line  
2: Replacing a piece of window trim  
3: Replacing a light fixture*

**Multi-family Housing** — housing property consisting of more than four dwelling units.

**Owner** — any person or entity that has legal title to housing, including individuals, partnerships, corporations, government agencies, Indian Tribes, and nonprofit organizations.

**Record of Notification** — written statement documenting the steps taken to notify occupants of renovation activities in common areas of multi-family housing. (See page 12 for sample.)

## Key Terms (continued)

**Renovation** — modification of all or part of any existing structure in housing that disturbs a painted surface. Includes:

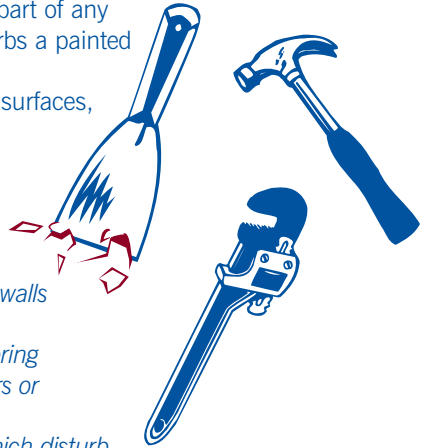
- Removal/modification of painted surfaces, components, or structures
- Surface preparation activities (sanding/scraping/other activities that may create paint dust)
- Window replacement

**Examples 1:** Demolition of painted walls or ceilings

**2:** Large surface replastering

**3:** Major plumbing repairs or improvements

**4:** Any other activities which disturb painted surfaces



**Renovation Notice** — notice to tenants of renovations in common areas of multifamily housing. (See *sample form on page 12.*) Notice must describe nature, location, and expected timing of renovation activity; and must explain how the lead pamphlet may be obtained free of charge.

**Renovator** — a person who performs for compensation a renovation, as defined above. (**Note:** Because the term “renovation” is defined broadly by Lead PRE, many contractors who are not generally considered to “renovators,” as that term is commonly used, are considered to be “renovators” under Lead PRE, and must follow Lead PRE requirements.)

**Self-Certification of Delivery** — an alternative method of documenting delivery of the lead pamphlet to a tenant. This method may be used whenever the tenant is unavailable or unwilling to sign a confirmation of receipt of lead pamphlet. (See *sample form on page 11.*) (**Note:** This method is not a permissible substitute for delivery of the lead pamphlet to an owner.)

**Special Trade Contractors** — individuals or companies performing work in specialized occupations such as painting, electrical work, plumbing, or carpentry.

**Supplemental Renovation Notice** — additional notification that is required when the scope, location, or timing of project changes.

**Zero-Bedroom Dwelling** — any residential dwelling where the living area is not separated from the sleeping area. This term includes efficiency and studio apartments, dormitory housing, and military barracks.

# Sample Forms

The forms on the next two pages are sample forms you can use to make documentation of compliance easier.

## Confirmation of Receipt of Lead Pamphlet

I have received a copy of the pamphlet, *Protect Your Family From Lead in Your Home*, informing me of the potential risk of the lead hazard exposure from renovation activity to be performed in my dwelling unit. I received this pamphlet before the work began.

\_\_\_\_\_  
Printed name of recipient

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of recipient

## Self-Certification Option (for tenant-occupied dwellings only) —

*If the lead pamphlet was delivered but a tenant signature was not obtainable, you may check the appropriate box below.*

- Refusal to sign** — I certify that I have made a good faith effort to deliver the pamphlet, *Protect your Family From Lead In Your Home*, to the rental dwelling unit listed below at the date and time indicated and that the occupant refused to sign the confirmation of receipt. I further certify that I have left a copy of the pamphlet at the unit with the occupant.
- Unavailable for signature** — I certify that I have made a good faith effort to deliver the pamphlet, *Protect Your Family From Lead In Your Home*, to the rental dwelling unit listed below and that the occupant was unavailable to sign the confirmation of receipt. I further certify that I have left a copy of the pamphlet at the unit by sliding it under the door.

\_\_\_\_\_  
Printed name of person certifying  
lead pamphlet delivery

\_\_\_\_\_  
Attempted delivery date and time

\_\_\_\_\_  
Signature of person certifying  
lead pamphlet delivery

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
Unit Address

**Note Regarding Mailing Option** — *As an alternative to delivery in person, you may mail the lead pamphlet to the owner and/or tenant. Pamphlet must be mailed at least 7 days before renovation (Document with a certificate of mailing from the post office).*

## Sample Forms (continued)

**Renovation Notice** — *For use in notifying tenants of renovations in common areas of multi-family housing.*

The following renovation activities will take place in the following locations:

\_\_\_\_\_

Activity (e.g., sanding, window replacement)

\_\_\_\_\_

Location (e.g., lobby, recreation center)

The expected starting date is \_\_\_\_\_ and the expected ending date is \_\_\_\_\_. Because this is an older building built before 1978, some of the paint disturbed during the renovation may contain lead. You may obtain a copy of the pamphlet, *Protect Your Family From Lead in Your Home*, by telephoning me at \_\_\_\_\_. Please leave a message and be sure to include your name, phone number and address. I will either mail you a pamphlet or slide one under your door.

\_\_\_\_\_

Date

\_\_\_\_\_

Printed name of renovator

\_\_\_\_\_

Signature of renovator

**Record of Tenant Notification Procedures** — *Procedures Used For Delivering Notices to Tenants of Renovations in Common Areas*

Project Address:

\_\_\_\_\_

Street

\_\_\_\_\_

(apt. #)

\_\_\_\_\_

City

\_\_\_\_\_

State

\_\_\_\_\_

Zip Code

\_\_\_\_\_

Owner of multi-family housing

\_\_\_\_\_

Number of dwelling units

\_\_\_\_\_

Method of delivering notice forms (e.g. delivery to units, delivery to mailboxes of units)

\_\_\_\_\_

Name of person delivering notices

\_\_\_\_\_

Signature of person delivering notices

\_\_\_\_\_

Date of Delivery

## Where Can I Get Copies of the Lead Pamphlet?

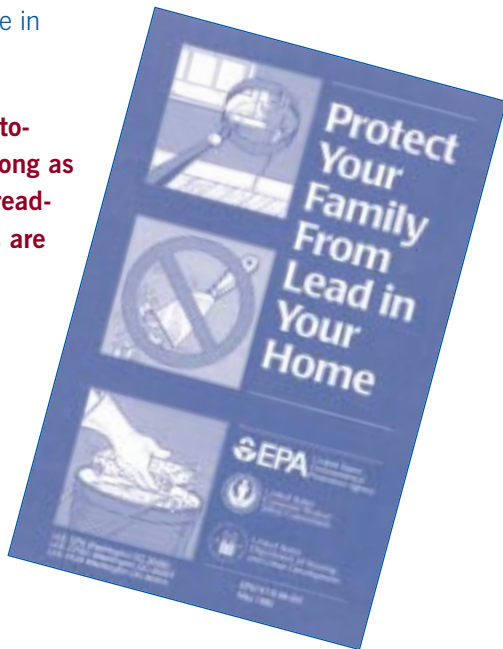
For single copies of *Protect Your Family From Lead in Your Home* (in Spanish or English), call the National Lead Information Clearinghouse (NLIC) at 1-800-424-LEAD. For any orders, be sure to use the stock reference number **EPA747-K-99-001**.

There are four ways to get multiple copies:

- 1.** Call the Government Printing Office order desk at **(202) 512-1800**.
- 2.** Send fax requests to **(202) 512-2233**.
- 3.** Request copies in writing from:  
**Superintendent of Documents**  
**P.O. Box 371954**  
**Pittsburgh, PA 15250-7954**
- 4.** Obtain via the Internet at **[www.epa.gov/lead](http://www.epa.gov/lead)**

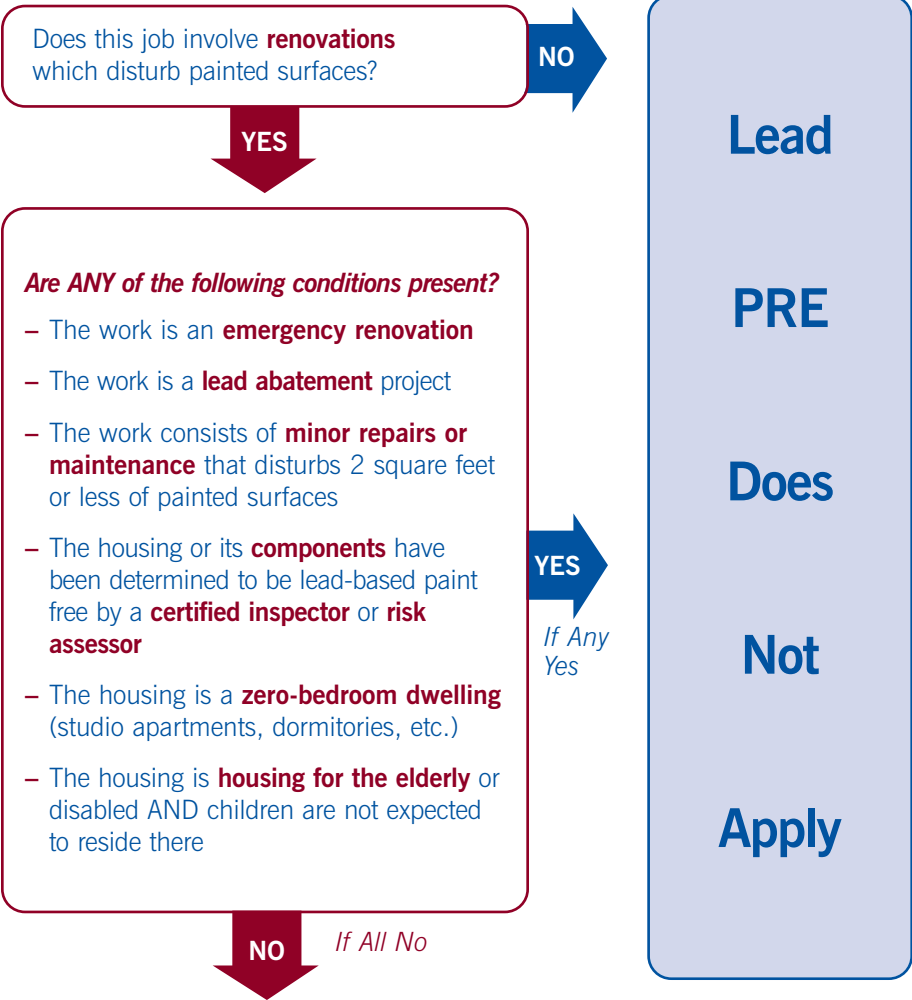
Single copies are available at no charge. Bulk copies available in packs of 50.

**The pamphlet may be photocopied for distribution as long as the text and graphics are readable. Camera-ready copies are available from NLIC or via the Internet.**



# The Lead Pre-Renovation Education Rule (Lead PRE) At-A-Glance

If you will be working for **compensation** in a pre-1978 home or apartment building, answer the questions below to determine if Lead PRE requires you to give the **lead pamphlet** to the **owner** and occupants.



***If no, then you need to read this book!  
Rental property owners and managers,  
renovators, and maintenance personnel  
are affected by Lead PRE.***

**Bold Type** = Key Terms (see pages 8–10 inside)

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**TAB 3**

**Certifications**

Risk Assessor

PBS Engineering + Environmental

Analytical Laboratory

# STATE OF WASHINGTON

## **Department of Commerce** Lead-Based Paint Program

### **Janet J. Murphy**

*Has fulfilled the certification requirements of Washington Administrative code (WAC) 365-230 and has been certified to conduct lead-based paint activities pursuant to WAC 365-230-200 as a:*

**Risk Assessor**

<b>Certification #</b>	<b>Issuance Date</b>	<b>Expiration Date</b>
0258	3/8/2010	3/8/2013

# STATE OF WASHINGTON

## Department of Commerce

### Lead-Based Paint Program

# PBS Engineering & Environmental

*Has fulfilled the certification requirements of Washington Administrative code (WAC) 365-230 and has been certified to conduct lead-based paint activities pursuant to WAC 365-230-200.*

<u>Certification #</u>	<u>Issuance Date</u>	<u>Expiration Date</u>
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0178

7/14/2010

9/3/2013





# AIHA Laboratory Accreditation Programs, LLC

## SCOPE OF ACCREDITATION

**NVL Laboratories, Inc.**  
 4708 Aurora Avenue N., Seattle, WA 98103

Laboratory ID: **101861**  
 Issue Date: 05/24/2011

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or revocation. A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the NLLAP.

### Environmental Lead Laboratory Accreditation Program (ELLAP)

**Initial Accreditation Date: 02/07/1997**

Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
<b>Paint</b>	16 CFR Part 1303 (CPSC-CH-E1003-09)	
	EPA SW-846 3051	
	EPA SW-846 7000B	
<b>Soil</b>	EPA SW-846 3051	
	EPA SW-846 7000B	
<b>Settled Dust by Wipe</b>	EPA SW-846 3051	
	EPA SW-846 7000B	
<b>Airborne Dust</b>	EPA SW-846 3051	
	NIOSH 7082	

The laboratory participates in the following AIHA-LAP, LLC-approved proficiency testing programs:

- ✓ Paint
- ✓ Soil
- ✓ Settled Dust by Wipe
- ✓ Airborne Dust