

**CITY OF NORWICH
OFFICE OF DEVELOPMENT
23 UNION STREET
NORWICH, CONNECTICUT 06360**

**CITY OF NORWICH
LEAD PAINT HAZARD CONTROL
PROGRAM
Project LP1648**

**48 Convent Avenue
Norwich, CT. 06360**

PROJECT SPECIFICATION

Bid 1-Lead Paint Hazard Control

**CITY OF NORWICH
INVITATION TO BID**

LEAD PAINT HAZARD CONTROL PROGRAM

**Bids for: LP1648
48 Convent Avenue
Norwich CT.**

BID- Lead Paint Hazard Control

Bids are being sought for the project for the property located at:

The residence at
48 Convent Avenue
Norwich, Connecticut

This project is being funded through the Property Rehabilitation Program and or HUD Lead Based Paint Hazard Control in Priority Housing Program. Contractors must be aware that the City of Norwich is an Equal Opportunity Employer. Contract documents including the lead abatement plan and property rehabilitation specifications may be obtained from the Office of Community Development, 23 Union Street, Norwich, Connecticut, Office hours are from 8:30 AM to 4:30 PM, Monday thru Friday. **A pre-bid conference will be held on 10-11-19 at 11:00 am. at the project location. Your attendance at that meeting is recommended to bid on this project.**

Sealed bids will be received at the Office of Community Development, 23 Union Street, Norwich, Connecticut until 4:00 PM on 10-18-19, at which time they will be opened and read aloud. The City of Norwich Reserves the right to reject any and all bids, or any part of any bid where such action is deemed to be in the best Interest of the City.

**EQUAL EMPLOYMENT / OPPORTUNITY
AFFIRMATIVE ACTION
FAIR HOUSING AGENCY**

CITY OF NORWICH
OFFICE OF DEVELOPMENT
23 UNION STREET
NORWICH, CONNECTICUT
860-823-3770

SPECIFICATIONS FOR THE PROJECT KNOWN AS:

48 Avenue
Norwich. CT 06360

TABLE OF CONTENTS:

Description	Page
General Bidding Instructions	<u>4</u>
Notice of Invitation to Bid	<u>5</u>
Project Location Map	<u>6</u>
Bidding and General Program Policies	<u>7-8</u>
Product Allowances	<u>9</u>
Basic Bid Package	<u>10</u>
Payment Request Form	<u>11</u>
Lead Inspections	<u>1A</u>
Lead Scope of work	<u>2B</u>

GENERAL BIDDING INSTRUCTIONS:

1. The contractor is to obtain and review the Project Specifications and prepare a quotation for all work specified on the Company Letterhead and the enclosed bid form.
2. Contractors are urged to attend the Pre-Bid conference on **10-11-19 At 11:00 a.m.** Failure to attend the Pre-Bid conference may result in incomplete bid information.
3. Bid proposals are to be submitted in a sealed envelope addressed as follows:

Community Development, Property Rehabilitation Program
Bid Project: #LP1648-RP1424 48 Convent Avenue
-On the outside front of the envelope-

4. **The sealed bid proposals will be received until 4:00 PM on 10-18-19,** at the Office of Community development which time they will be opened and read aloud.
5. It is the contractor's responsibility to ensure they have all the project addendums and changes made to the scope of work prior to the bid due date. Copies of the addendum will be available at the city offices. Copies of addendum are to be attached with each bid. Failure to attach the addendum sheets will disqualify the bidder.

The information contained in this bid package is for the purpose of providing general project specifications of the items included in the scope of work. Code compliance work required by the local building officials and fire marshal will be limited to those items directly relating to lead abatement activities. All other code compliance issues will be the responsibility of the property owner, and will not be funded under this program.

Payments will be requested by the Contractor according to contract provisions. The Contractor will submit payment requests to Program Management in the form of a billing request. Program Management will then conduct an inspection with the Property Owner in order to authorize payment or request revisions. Once billing ('s) are approved, a check will be issued to the contractor. The contractor may then pick up the check or notify the City to mail it to the contractors address listed herein. Contractors should allow a minimum of 15 days for payment of approved invoices. The contract documents further describe the payment process.

Items not included in this specification, that are required for a complete installation or operation are considered part of this specification. All issues pertaining to code compliance should be directed to the Building Official. It is the responsibility of the contractor to secure and pay for all required permits, and terminate all required permits with inspections required by the permitting authority. Copies of all permits to be provided to the City at the time of issue and release.

Prior to the start of any construction activities, the contractor must request a pre-abatement inspection which will review the containment preparations, licensure, and proper set up of construction activities and safety equipment, if the work Specification requires it.

**NOTICE OF INVITATION TO BID
GENERAL INFORMATION**

PROJECT NAME: LP1648
ADDRESS: 48 Convent Avenue
Norwich, Connecticut, 06360

OWNERS NAME: Melanie Rivera & Melisa Rivera
OWNERS ADDRESS: 48 Convent Avenue
Norwich CT. 06360

OWNERS PHONE NO: 860-961-3495

For the City of Norwich, Contact:

City of Norwich
Office of Development
23 Union Street
Norwich, CT 06360
(860) 823-3770
Wayne R. Sharkey, Property Rehabilitation, Program Manager
Office hours: Monday – Friday 8:30 am – 4:30 pm

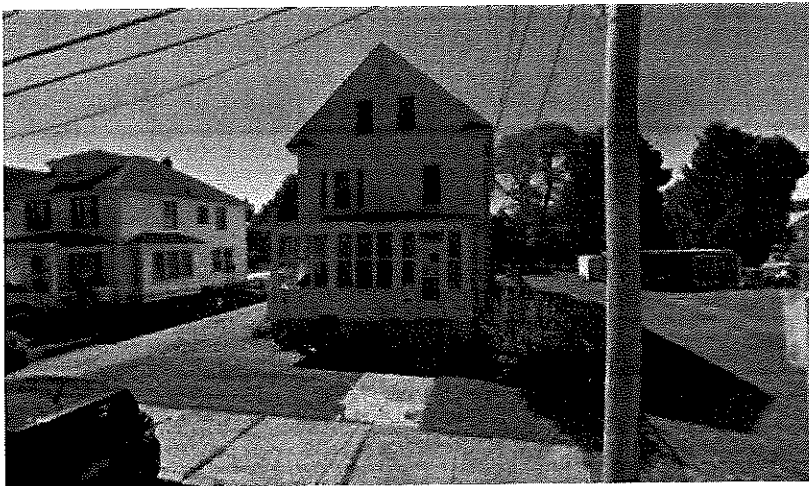
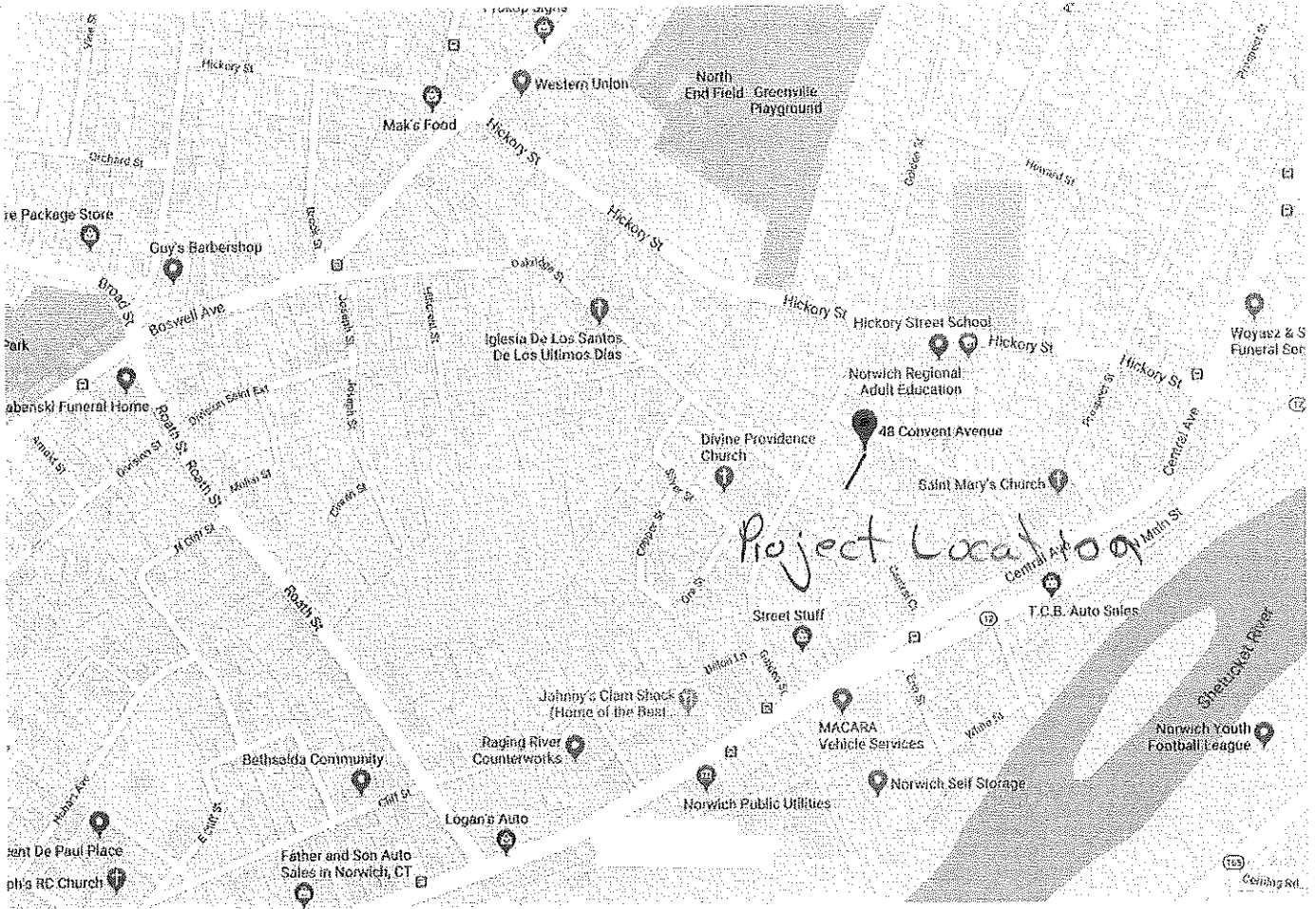
Contractor:

Additional project specifications may be obtained at:

Community Development Office
23 Union Street
Norwich, Connecticut 06360
(860) - 822 - 3770

Project specifications may be obtained during normal business hours 8:30 AM - 4:30 PM,
Monday thru Friday.

48 Convent Ave



48 Convent Ave

Norwich, CT 06360

BIDDING AND GENERAL PROGRAM POLICIES

1. The omission of any items listed in the Basic Bid Package will result in the disqualification of the bid.
2. All addendums and scope changes discussed at the bid walk through will be written up and available at the city office prior to the bid opening date. All addendum and changes to be attached to the bid forms and signed by the contractor. Failure to attach addendum and changes may result in bid disqualification.
3. Bid readings are open to the public. No bid documents will be made available to contractors or the public without supervision at the bid opening. Results of the bidding will be available at the Office of Development the following business day.
4. The City of Norwich reserves the right to reject any bid when it is deemed to be in the best interest of the City and/or the property owner. The City of Norwich further reserves the right to accept or reject portions of any bid when it is deemed to be in the best interest of the City and or the property owner.
5. Disputes and protests:
 - a. If a contractor feels that a bidder has submitted an incomplete bid, or has evidence of other improprieties that negatively impact their own qualified bid, they may file a protest with the City of Norwich, Office of Development within 7 calendar days of the Bid opening.
 - b. Such notice shall be in writing and include copies of evidence required to prove or disprove the questionable bids.
 - c. Bid protests will not be accepted by unqualified bidders, or bidders who have been disqualified for incomplete bids.
 - d. All bid protests will be reviewed by program staff and the Director of Development. The decision rendered by the director of development will be final.
 - e. Contractors submitting frivolous bid protests are hereby warned that unjustified and groundless protests may result in the loss of future bidding privileges
6. Bidder Limitation Policies:
 - a. Bidders may hold no more than three active contracts between either the Lead or Rehab program. (However Contractors may request exception to this rule if they can provide assurances sufficient to the timely start and completion of project contracts.) Acceptance/denial of such a request is solely at the discretion of the Rehabilitation Specialist.
 - b. Bidders holding three open contracts, will be prohibited from future bidding until the closeout of one or more open contracts. (see- exception clause)
 - c. Contract holders that are in delinquent standing of any project completion date, may be prohibited from bidding until all delinquent projects are closed out.
 - d. New Contractors will be subject to a probationary period in which they may hold only one contract. Once a new contractor has entered into their first contract for a Property Rehabilitation or Lead Hazard Reduction project, they will not be allowed to bid further projects until the successful completion of the probationary period. During the probationary period the Contractor will be evaluated based on their performance according to both the project contract, and overall program

requirements. At the completion of the project the Program Manger will give the Contractor written notice outlining their acceptance or denial as a Contractor "in good standing", for future Projects.

7. Lead Abatement Clearance Policies:
 - e. Both the first and second rounds of dust wipes tests are included in program costs.
 - f. Further failures will be assessed to the project contractor in the form of an \$80.00 per hour inspector fee.
 - g. All additional testing fees must be paid in full prior to the release of final payment to the contractor.

BASIC PRODUCT SELECTION ALLOWANCES:

As the most common work items for Lead Paint Hazard Control projects, the following door selection pricings will be implemented as they are applicable to each project scope.

Exterior grade door (standard sizes), hardware & trim: Max Owner selection \$500.00 per

Exterior grade door with Side lights, hardware & trim: Max Owner selection \$1,000.00 per

Interior Door slab only: Max Owner selection \$85.00 per

Interior Door, casing, trim, and hardware: Max Owner Selection \$175.00 per

Storm Doors: \$225.00

General Selections such as roof or siding colors are to be documented between the Contractor and Home Owner then submitted to the Program Manager prior to start of work.

OTHER PRODUCT BIDDING REQUIREMENTS

Where Lead Paint Hazard Control, and Rehabilitation Projects include various other building products, the contractor is responsible to include "Builders Grade Materials and Products, with basic selections for colors and style where applicable."

For program purposes (Builders Grade Products) shall be defined as middle grade market available building products by costs. Prior to contract signing, the Contractor, Program Manager and Property owner will meet to review and approve all product selections. NOTE: Property owners may elect to select higher grade or specialty products only at their own cost, and if such a selection does not delay the normal agreed upon schedule of work. No product alterations shall be made after contract signing unless under special circumstance, approved by Program Management.

HISTORICAL REQUIREMENTS (Windows)

Some projects that are located in National or Local historic districts must comply with the following:

- 1. All wood construction window.**
- 2. In like form and fashion of the pre-existing.**
- 3. May be simulated divide, but manufactured Mullions must be part of the factory construction of the window unit not after-market pieces.**
- 4. All windows must be primed and painted to match original.**

BASIC BID PACKAGE: Bid 1-Lead Paint Hazard Control

The City of Norwich, Office of Community Development basic bid package is enclosed and shall be submitted as follows:

1. This Instruction Sheet with signed bidders certification
2. Payment Request from filled out and totaled.
3. Non-Collusion Affidavit.
4. Proof of insurance
5. Proof of licensure as a home improvement contractor in the State of Connecticut.
6. Proof of Licensure as a Lead Abatement contractor in the State of Connecticut (if applicable)
7. Copies of all addendum sheets properly signed and filled out as directed.

*** Please note, items 3,4,5, and 6 may be submitted once annually. It is also the contractor's responsibility to insure that these items are updated as they expire. Please be aware that the submittal of items 1,2,and 7 will only constitute a complete bid package if all other items are on file and up to date with the City of Norwich.

BIDDERS CERTIFICATION

I, _____, acting on behalf of _____
A contractor registered in the State of Connecticut, have reviewed the bid requirements, bid documents and site conditions and hereby propose to complete the work specified for the amount of _____ dollars (\$ _____)

I will guarantee this price for a maximum of 15 days from the date of this proposal. I will be able to start this project on or about _____, 2019. This project is allotted **20, calendar days** to complete the specified scope, baring weather and or other excusable delays. (Note: Work items that cannot be undertaken during winter months such as exterior encapsulation or soils, shall have a completion date of no later than May 30th) I am aware that if I fail to complete the work in the time required, I may be penalized based upon the terms of the contract.

Signed by: _____ (Print Name) Date: _____

Signature: _____ Phone: _____

Contractor Name: _____

Address: _____

City of Norwich, Property Rehabilitation Program				
Payment Request Form Contractor Name: Authorized signature:				
PROPERTY ADDRESS: 34 Happy Street Norwich CT. 06360 Lead Paint Hazard Control			DATE: Req. No.:	
DESCRIPTION	BID AMOUNT	1st. REQ DATE	2nd. REQ DATE	Final REQ DATE
Permits and Fees				
Waste Disposal				
Exterior Ip all				
Exterior Garage Ip all				
Yard Soils Ip				
1st Fl Interior Ip all				
2nd Fl Interior Ip all				
Attic Stairs				
Front Porch Ip all				
Alt. 1				
Alt. 2				
Alt. 3				
Alt. 4				
Alt. 5				
Alt. 6				
Alt. 7				
TOTALS				
Received to Date:				
This Request:				10% Retain
Total Paid to Date			Total Retainage	
Approved by Owner			Date	
Approved by City			Date	
Approved by Contractor			Date	
PROJECT SCHEDULE:				
Proposed Start Date				

201. NON-COLLUSION AFFIDAVIT OF CONTRACTOR

State of _____)
) ss.
County of _____)

_____, being first duly sworn, deposes and says
that :

(1) He is (owner, partner, officer, representative, or agent) of

(hereafter refer to as the "Contractor"), who has executed the Agreement, of which this affidavit is a part;

(2) He is fully informed respecting the preparation and contents of said Agreement and the Contract Price and all pertinent circumstances respecting such Agreement and Contract Price;

(3) Such Contract Price is genuine and not a collusive or sham price;

(4) Neither the Contractor nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affidavit, has in any way colluded, conspired, connived, or agreed, directly or indirectly, with any other contractor, bidder, firm or person to submit a collusive or sham price or bid in connection with such work, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other contractor, bidder, firm or person to fix the price or prices offered by the Contractor and accepted by the owner, or to fix the offered price of any other bidder, or to secure through collusion, conspiracy, connivance or unlawful agreement any advantage against the Owner and/or the City or any person interested in this agreement; and

(5) The price or prices offered by the contractor and accepted by the Owner as the Contract price is fair and proper and is not obtained by any collusion, conspiracy, connivance or unlawful agreement on the part of the Contractor or any of its agents, representatives, owners, employees or parties in interest, including this affiant.

(Seal, if corporation) _____

By: _____

Title: _____

Subscribed and sworn to before me this _____ day of

_____, 20_____.

***** General Acknowledgement: This Affidavit is to apply to all projects, bid through the City of Norwich, Community Development Center. (2019)**

12

Connecticut Lead Paint Solutions, LLC

1245 Hebron Avenue
Glastonbury, CT 06033
860-633-3330
CT License #2124
andrew@ctleadpaint.com

Lead Paint Inspections & Testing
Consulting & Cost Analysis
Abatement/Management Plans
Abatement & Clean-up

Lead Paint Inspection Report and Lead Hazard Assessment

Connecticut Lead Consultant License #002124
Lead Inspector/Risk Assessor, CT #002179

This report is prepared for;
City of Norwich
Lead Paint Hazard Control Program
23 Union St
Norwich, CT 06360

The property inspected was;
48 Convent Ave
Norwich, CT 06360

Owners; Melissa Rivera

The testing instrument used is a Niton XLp 303A Lead Paint, Spectrum Analyzer, serial #24517. A reading of 1.0 milligrams lead per square centimeter of surface ($1.0\text{mg}/\text{cm}^2$) or greater is defined as a toxic level of lead, by the State of Connecticut, Dept. of Public Health, Regulations for Lead Poisoning Prevention and Control, 19a-111-1a. The inspection protocol as detailed in Chapter 7 of the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (2012 Revision) was used for this inspection. The testing mode is K+L Spectrum.

At the beginning and end of the inspection, each day, calibration tests are done on known control standards and the readings recorded to ensure the accuracy of the testing device. The calibration lines on the data sheets provides the measured lead concentration of the control standards (in the Condition Column) and whether the lead is at the surface or buried under non-lead paint.

The testing protocol is to test representative samples of various building components or sub-components per room or area. The test result for the representative sample is then applied to the other similar component(s) in that room or area. Refer to the floor plan attach toward the end of this report for the location of the rooms and walls sides (A, B, C, D).

Any lead reading $1.0\text{mg}/\text{cm}^2$ or greater is positive for toxic levels of lead and the line for that reading is in red print on the data sheets.

This inspection is for lead in paint primarily. The paint was tested on site. Dust and soil samples were also collected for analysis of lead concentrations by accredited laboratories.

The inspection was done on August 22 and 27, 2019.

The property inspected is a two-family house built in 1921. All interior rooms or areas were fully inspected including a partially finished room in the Attic (room 6). The unfinished basement was not inspected. The house is in very good condition.

Some of the interior surfaces tested in the house were positive for lead-based paint (LBP). The LBP was primarily detected on some, but not all, of the plaster walls and ceilings. Disregard the following positive walls and ceilings, readings #110-112, 114, and all positive walls and the ceiling in Room #4, 2nd floor, readings #242-246. The testing instrument detected the positive plaster walls now cover with the new drywall walls. The paint on the drywall is negative for LBP. The Rear Stairs had additional positive surfaces.

Most window sashes (the part of the window which contains the glass and is movable) in both apartments have been replaced with vinyl replacement units. The three remaining wood windows are in Room 5, closet, 1st floor, Room 5a, 2nd floor and Room 6 in the Attic. There basement has wood windows, the Rear Stairs windows are aluminum storm units and the Front Porch has wood storm inserts and screens.

The exterior of the house is completely covered with vinyl siding and aluminum window casings and upper trim (exterior soffits and fascia trim). Some painted surfaces tested on the exterior of the front porch were positive for LBP.

The detached garage was tested on the exterior only. Some surfaces tested were positive for LBP. Some window units need replacing.

Lead in Dust and Soil Assessment

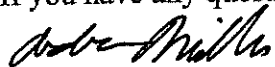
Twelve dust wipe samples were collected for analysis of lead concentrations by an accredited laboratory. Three dust wipe samples were over the **new** HUD limits for risk assessment testing, therefore failing. The limits must not exceed $10\mu\text{g}/\text{ft}^2$ (micrograms lead per square foot of surface area) for floors and $100\mu\text{g}/\text{ft}^2$ for window sills and wells. These samples were collected in accordance with the collection protocol as stated in the HUD Guidelines.

Two composite soils samples were also collected. Soil-1 was collected from bare soil with-in one foot of the perimeter of the foundation or the concrete pad on the D side of the house. Soil-2 was collect on the C side and the rear yard. The tests results were 540ppm and 310ppm lead respectively. The A side of the house is covered with shrubs and the B side is covered with asphalt.

The Federal EPA's section 403 Guidelines for soil concentrations are determined by the land use by children. If the area is expected to be used by children, various interim controls to prevent contact between children and contaminated soil are recommended for soil lead levels above 400ppm but less than 5000ppm. Some action will be required on the D side of the house.

All the test results are detailed on the data sheets for the inspection.

If you have any questions on this report, please do not hesitate to contact me.



Andrew Miller
Lead Inspector/Risk Assessor, CT #002179
September 20, 2019

How to read the data sheets

Starting from the left side column.

Index	The instrument assigns a number to every reading.
Fl.	Floor level
Room	Indicated which room or area was tested. The room or area is also detailed on the floor plan.
Side	The side of the room that faces the street is the A Side, the B side is clockwise to the A wall, the C wall is opposite the A wall and so on. For the exterior the A side is the front facing the street, the B side is clockwise, the C side is the rear ect. See attached floor plan for more details.
Component	Indicates which building component was tested, window, door, wall ect. Many components have sub-components such as a window <i>casing</i> or window <i>sash</i> . If there is more than 1 similar building component on a wall in a room or area, than the component may be further described as being the Lft for left, Ctr for center or Rht for right. This would be as you face the wall.
Substrate	Indicates what building material the component was constructed of. Not always accurate for drywall or plaster walls.
Color	Indicates the color of the test surface. The color selected is influenced by many factors including lighting, contrasting colors, smoke films and others.
Condition	Indicates the condition of the paint film or the substrate. The ratings are as follows; Intact, a paint film with no cracked or peeling paint; Fair, the paint film is cracked or chipped but paint chips can not be picked off; Poor, the paint film is cracked or chipped and paint chips can be picked off; Peeling; the paint film is very loose and can fall off with little or no external effort; Defective-Sub, defective substrate. The worse visible condition is noted. Substrate conditions are only listed if it affects the condition of the paint film.
Result	Indicates the results of that test. Either Positive, equal to or greater than 1.0 milligrams lead per square centimeter of surface ($1.0\text{mg}/\text{cm}^2$) Negative meaning below the action level of $1.0\text{mg}/\text{cm}^2$ or Null if the reading was interrupted and not completed. The incomplete reading is almost always followed by a complete reading from the same surface. All positive reading lines are in color print.
PbC	This is the range of the lead concentration in the dry paint. The testing instrument narrows the reading down to plus or minus from the main (1 st) number.

On the data sheets any lead reading $1.0\text{mg}/\text{cm}^2$ or greater is positive for lead-based paint and the line for that reading is in color print. The calibration readings are from the known control standards and not from any painted surface on the property tested. Even a property that has been certified as being “free of lead-based paint” will still have positive calibration readings listed on the report.

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
1				Calibration- Surface		08/22/19	1.53mg/cm ²	Positive	1.60 ± 0.20
2				Calibration- Surface			1.04mg/cm ²	Positive	1.00 ± 0.10
3				Calibration- Surface			1.04mg/cm ²	Positive	1.00 ± 0.10
4				Calibration- Surface			1.04mg/cm ²	Positive	1.00 ± 0.10
5				Calibration- Surface			0.01mg/cm ²	Negative	0.00 ± 0.03
6	1st	Room 1	A	Window Sill	Wood	White	Intact	Negative	0.00 ± 0.02
7	1st	Room 1	A	Window Sill	Wood	White	Intact	Negative	0.01 ± 0.03
8	1st	Room 1	A	Window Casing	Wood	White	Intact	Negative	0.00 ± 0.02
9	1st	Room 1	A	Window Casing	Wood	White	Intact	Negative	0.00 ± 0.02
10	1st	Room 1	B	Window Casing	Wood	White	Intact	Negative	0.00 ± 0.02
11	1st	Room 1	D	Door	Wood	White	Fair	Negative	0.00 ± 0.03
12	1st	Room 1	D	Door Casing	Wood	White	Intact	Negative	0.01 ± 0.03
13	1st	Room 1	D	Door Jamb	Wood	Brown	Intact	Negative	0.01 ± 0.05
14	1st	Room 1	D	Door Threshold	Wood	Brown	Intact	Negative	0.09 ± 0.09
15	1st	Room 1	C	Opening Casing	Wood	White	Intact	Negative	0.00 ± 0.02
16	1st	Room 1	C	Opening Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
17	1st	Room 1	A	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.04
18	1st	Room 1	A	Radiator	Metal	Silver	Intact	Negative	0.02 ± 0.06
20	1st	Room 1	A	Wall	Plaster	Green	Intact	Negative	0.00 ± 0.02
21	1st	Room 1	C	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
22	1st	Room 1	C	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
23	1st	Room 1	D	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
24	1st	Room 1	C	Ceiling	Plaster	White	Fair	Positive	11.60 ± 6.60
25	1st	Room 1	C	Ceiling	Plaster	White	Fair	Positive	9.20 ± 4.20
26	1st	Room 1	A	Ceiling	Plaster	White	Intact	Positive	10.00 ± 6.10
27	1st	Room 2	B	Window Sill	Wood	Brown	Intact	Negative	0.02 ± 0.04
28	1st	Room 2	B	Window Casing	Wood	Brown	Intact	Negative	0.02 ± 0.09
29	1st	Room 2	C	Door	Wood	Brown	Fair	Negative	0.02 ± 0.06
30	1st	Room 2	C	Door Jamb	Wood	Brown	Intact	Negative	0.01 ± 0.03
31	1st	Room 2	D	Door Lft	Wood	Brown	Intact	Negative	0.00 ± 0.02
32	1st	Room 2	D	Door Casing	Wood	Brown	Intact	Negative	0.00 ± 0.02
33	1st	Room 2	D	Door Rht	Wood	Brown	Intact	Negative	0.00 ± 0.03
34	1st	Room 2	D	Door Jamb	Wood	Brown	Intact	Negative	0.00 ± 0.03
35	1st	Room 2	A	Opening Casing	Wood	White	Intact	Negative	0.00 ± 0.02
36	1st	Room 2	B	Baseboard	Wood	Brown	Intact	Negative	0.01 ± 0.03
37	1st	Room 2	D	Bookcase Shelf	Wood	Gold	Intact	Positive	15.60 ± 5.60
38	1st	Room 2	D	Bookcase Shelf	Wood	Gold	Intact	Positive	6.60 ± 4.30
39	1st	Room 2	D	Bookcase Wall	Plywood	Gold	Intact	Positive	13.20 ± 6.70
40	1st	Room 2	D	Bookcase Frame	Wood	Brown	Intact	Negative	0.00 ± 0.03
41	1st	Room 2	A	Radiator	Metal	Silver	Poor	Negative	0.15 ± 0.33
42	1st	Room 2	A	Wall	Plaster	White	Intact	Negative	0.02 ± 0.02
43	1st	Room 2	B	Wall	Plaster	White	Intact	Negative	0.01 ± 0.02
44	1st	Room 2	C	Wall	Plaster	White	Intact	Positive	1.40 ± 0.40
45	1st	Room 2	C	Wall	Plaster	White	Intact	Negative	0.70 ± 0.10
46	1st	Room 2	D	Wall	Plaster	White	Intact	Positive	5.00 ± 2.50
47	1st	Room 2	D	Wall Rht	Plaster	White	Intact	Negative	0.13 ± 0.09
48	1st	Room 2	A	Wall Lft	Plaster	White	Intact	Negative	0.01 ± 0.03
49	1st	Room 2	C	Wall Lft	Plaster	White	Intact	Positive	3.60 ± 0.60
50	1st	Room 2	A	Ceiling	Plaster	White	Fair	Positive	3.60 ± 2.10
51	1st	Room 2	C	Ceiling	Plaster	White	Peeling	Positive	2.00 ± 1.00
52	1st	Room 2	A	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.03
53	1st	Room 3	D	Window Sill	Wood	White	Intact	Negative	0.03 ± 0.07

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
54	1st	Room 3	D	Window Casing	Wood	White	Intact	Negative	0.01 ± 0.03
55	1st	Room 3	D	Window Stop	Wood	White	Intact	Negative	0.01 ± 0.03
56	1st	Room 3	B	Door	Wood	White	Intact	Negative	0.00 ± 0.02
57	1st	Room 3	B	Door Casing	Wood	White	Intact	Negative	0.01 ± 0.03
58	1st	Room 3	B	Door Jamb	Wood	Brown	Intact	Negative	0.01 ± 0.03
59	1st	Room 3	A	Closet Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
60	1st	Room 3	A	Closet Cleat	Wood	Gold	Intact	Negative	0.00 ± 0.02
61	1st	Room 3	A	Closet Cleat	Wood	Gold	Intact	Negative	0.04 ± 0.14
62	1st	Room 3	A	Closet Shelf	Wood	Gold	Intact	Negative	0.00 ± 0.02
63	1st	Room 3	A	Closet Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
64	1st	Room 3	A	Closet Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
65	1st	Room 3	C	Baseboard	Wood	White	Intact	Negative	0.04 ± 0.13
66	1st	Room 3	C	Radiator	Metal	Silver	Intact	Negative	0.04 ± 0.06
67	1st	Room 3	A	Wall	Plaster	White	Intact	Positive	8.10 ± 4.20
68	1st	Room 3	C	Wall	Plaster	White	Intact	Positive	10.60 ± 4.90
69	1st	Room 3	C	Wall	Plaster	White	Intact	Positive	8.30 ± 4.40
70	1st	Room 3	D	Wall	Plaster	White	Intact	Positive	7.30 ± 3.90
71	1st	Room 3	C	Ceiling	Plaster	White	Intact	Positive	7.10 ± 3.80
72	1st	Room 3	A	Ceiling	Plaster	White	Intact	Positive	9.40 ± 4.30
73	1st	Room 3	A	Ceiling Trim	Wood	Gold	Intact	Negative	0.06 ± 0.11
74	1st	Room 3	A	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.02
75	1st	Room 4	D	Window Sill	Wood	White	Intact	Negative	0.01 ± 0.05
76	1st	Room 4	D	Window Casing	Wood	White	Intact	Negative	0.03 ± 0.06
77	1st	Room 4	B	Door	Wood	White	Intact	Negative	0.05 ± 0.15
78	1st	Room 4	B	Door Jamb	Wood	White	Intact	Negative	0.06 ± 0.17
79	1st	Room 4	B	Door Casing	Wood	Brown	Intact	Negative	0.00 ± 0.02
80	1st	Room 4	C	Closet Jamb	Wood	White	Intact	Negative	0.00 ± 0.03
81	1st	Room 4	C	Closet Casing	Wood	White	Intact	Negative	0.00 ± 0.03
82	1st	Room 4	C	Closet Cleat	Wood	White	Intact	Negative	0.00 ± 0.02
83	1st	Room 4	C	Closet Cleat Up	Wood	White	Intact	Negative	0.00 ± 0.02
84	1st	Room 4	C	Closet Wall	Plywood	White	Intact	Negative	0.00 ± 0.02
85	1st	Room 4	C	Closet Wall Up	Plaster	White	Intact	Negative	0.28 ± 0.41
86	1st	Room 4	A	Baseboard	Wood	White	Intact	Negative	0.02 ± 0.05
87	1st	Room 4	A	Radiator	Metal	Silver	Fair	Negative	0.03 ± 0.11
88	1st	Room 4	A	Wall	Plaster	Gray	Damaged	Positive	18.30 ± 6.50
89	1st	Room 4	B	Wall	Plaster	Gray	Intact	Positive	14.80 ± 5.70
90	1st	Room 4	C	Wall	Plaster	Blue	Intact	Positive	17.80 ± 6.40
91	1st	Room 4	D	Wall	Plaster	Gray	Intact	Positive	19.80 ± 8.80
92	1st	Room 4	A	Ceiling	Plaster	White	Intact	Positive	12.10 ± 5.00
93	1st	Room 4	C	Ceiling	Plaster	White	Intact	Positive	5.90 ± 3.30
94	1st	Room 4	D	Ceiling Trim	Wood	White	Intact	Negative	0.04 ± 0.10
95	1st	Room 5	D	Window Sill	Wood	Brown	Intact	Negative	0.09 ± 0.16
96	1st	Room 5	D	Window Casing	Wood	Brown	Intact	Negative	0.05 ± 0.14
97	1st	Room 5	B	Door	Wood	Brown	Intact	Negative	0.01 ± 0.03
98	1st	Room 5	B	Door Jamb	Wood	Brown	Intact	Negative	0.00 ± 0.02
99	1st	Room 5	A	Closet Jamb	Wood	Green	Intact	Negative	0.00 ± 0.02
100	1st	Room 5	A	Closet Shelf Up	Wood	Gold	Intact	Negative	0.00 ± 0.02
101	1st	Room 5	A	Closet Shelf Mid	Wood	Silver	Intact	Negative	0.00 ± 0.02
102	1st	Room 5	A	Closet Cleat	Wood	Green	Intact	Negative	0.00 ± 0.02
103	1st	Room 5	A	Closet Wall	Plywood	Unpainted	Intact	Negative	0.02 ± 0.07
104	1st	Room 5	A	Closet Wall Up	Drywall	Off-White	Intact	Negative	0.00 ± 0.74
105	1st	Room 5	A	Closet Floor	Wood	White	Intact	Negative	0.01 ± 0.04

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
106	1st	Room 5	B	Baseboard	Wood	White	Intact	Negative	0.01 ± 0.04
107	1st	Room 5	D	Baseboard	Wood	White	Fair	Negative	0.01 ± 0.03
108	1st	Room 5	A	Wall	Plaster	Green	Intact	Positive	9.20 ± 4.50
109	1st	Room 5	B	Wall Lft	Plaster	Green	Intact	Positive	10.30 ± 4.80
110	1st	Room 5	B	Wall Rht	Drywall	Green	Intact	Positive	2.00 ± 0.90
111	1st	Room 5	B	Wall Rht	Plaster	Green	Intact	Null	0.00 ± 0.02
112	1st	Room 5	C	Wall Rht	Drywall	Green	Intact	Positive	2.00 ± 0.90
113	1st	Room 5	D	Wall	Plaster	Green	Intact	Positive	13.80 ± 5.50
114	1st	Room 5	C	Wall	Drywall	Green	Intact	Positive	1.60 ± 0.50
115	1st	Room 5	A	Ceiling	Plaster	White	Intact	Positive	6.50 ± 4.40
116	1st	Room 5	B	Ceiling Trim	Wood	Black	Intact	Negative	0.00 ± 0.02
117	1st	Room 5	C	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.02
118	1st	Room 5 Closet	C	Window Jamb	Wood	White	Intact	Negative	0.00 ± 0.03
119	1st	Room 5 Closet	C	Window Sash Int.	Wood	White	Intact	Positive	2.60 ± 1.10
120	1st	Room 5 Closet	A	Opening Jamb	Wood	Bone	Intact	Negative	0.00 ± 0.02
121	1st	Room 5 Closet	C	Closet Shelf	Wood	White	Intact	Negative	0.00 ± 0.03
122	1st	Room 5 Closet	A	Closet Shelf	Wood	White	Intact	Negative	0.00 ± 0.02
123	1st	Room 5 Closet	B	Closet Shelf	Wood	White	Intact	Negative	0.00 ± 0.02
124	1st	Room 5 Closet	A	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
125	1st	Room 5 Closet	B	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
126	1st	Room 5 Closet	C	Wall	Drywall	White	Fair	Negative	0.00 ± 0.02
127	1st	Room 5 Closet	D	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
128	1st	Room 5 Closet	A	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
129	1st	Room 5 Closet	A	Ceiling Trim	Wood	White	Intact	Negative	0.00 ± 0.02
130	1st	Kitchen	B	Window Sill Lft	Wood	Brown	Intact	Negative	0.02 ± 0.11
131	1st	Kitchen	B	Window Casing	Wood	Brown	Intact	Negative	0.00 ± 0.02
132	1st	Kitchen	B	Window Sill Rht	Wood	Brown	Fair	Negative	0.02 ± 0.05
133	1st	Kitchen	B	Window Casing	Wood	Brown	Intact	Negative	0.01 ± 0.06
134	1st	Kitchen	A	Door	Wood	Brown	Intact	Negative	0.01 ± 0.03
135	1st	Kitchen	A	Door Jamb	Wood	Brown	Intact	Negative	0.04 ± 0.18
136	1st	Kitchen	C	Door Lft	Wood	Brown	Intact	Negative	0.02 ± 0.04
137	1st	Kitchen	C	Door Casing	Wood	Brown	Intact	Negative	0.05 ± 0.16
138	1st	Kitchen	C	Door Jamb Rht	Wood	Brown	Intact	Negative	0.01 ± 0.03
139	1st	Kitchen	D	Door	Wood	Brown	Intact	Negative	0.04 ± 0.12
140	1st	Kitchen	D	Door Jamb	Wood	Brown	Intact	Negative	0.04 ± 0.12
141	1st	Kitchen	B	Chair Rail	Wood	Brown	Intact	Negative	0.02 ± 0.09
142	1st	Kitchen	B	Wall - Lower	Wood	Brown	Intact	Negative	0.03 ± 0.08
143	1st	Kitchen	D	Wall - Lower	Wood	Brown	Intact	Negative	0.00 ± 0.03
144	1st	Kitchen	A	Wall - Upper	Drywall	Gold	Intact	Positive	9.30 ± 4.50
145	1st	Kitchen	A	Wall - Upper	Plaster	Gold	Intact	Null	0.25 ± 0.22
146	1st	Kitchen	A	Cabinet Door Upr	Wood	Gold	Intact	Negative	0.10 ± 0.30
147	1st	Kitchen	A	Cabinet Door Trim	Wood	Gold	Intact	Negative	0.08 ± 0.15
148	1st	Kitchen	B	Wall - Upper	Plaster	Gold	Intact	Positive	9.70 ± 4.60
149	1st	Kitchen	C	Wall - Upper	Plaster	Gold	Intact	Positive	8.30 ± 5.40
150	1st	Kitchen	D	Wall - Upper	Plaster	Gold	Intact	Positive	8.80 ± 4.50
151	1st	Kitchen	C	Soffit	Wood	White	Intact	Negative	0.01 ± 0.07
152	1st	Kitchen	C	Ceiling	Plaster	White	Peeling	Positive	10.30 ± 4.50
153	1st	Kitchen	D	Radiator	Metal	Silver	Intact	Negative	0.01 ± 0.03
154	1st	Kitchen	D	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.02
155	1st	Bath	B	Window Sill	Wood	Green	Intact	Negative	0.00 ± 0.02
156	1st	Bath	B	Window Casing	Wood	Green	Intact	Negative	0.00 ± 0.02
157	1st	Bath	A	Door	Wood	Green	Intact	Negative	0.60 ± 0.30

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
158	1st	Bath	A	Door	Wood	Green	Intact	Negative	0.30 ± 0.35
159	1st	Bath	A	Door Jamb	Wood	Brown	Intact	Negative	0.00 ± 0.02
160	1st	Bath	D	Radiator	Metal	Silver	Poor	Negative	0.06 ± 0.08
161	1st	Bath	A	Wall	Drywall	Green	Intact	Negative	0.00 ± 0.02
162	1st	Bath	B	Wall	Drywall	Green	Intact	Negative	0.00 ± 0.02
163	1st	Bath	C	Wall	Drywall	Green	Intact	Negative	0.00 ± 0.02
164	1st	Bath	D	Wall	Drywall	Green	Intact	Negative	0.00 ± 0.02
165	1st	Bath	A	Ceiling	Drywall	Beige	Damaged	Negative	0.00 ± 0.02
166	1st	Rear Entry	C	Door	Wood	Brown	Intact	Negative	0.01 ± 0.03
167	1st	Rear Entry	C	Door	Wood	Brown	Intact	Negative	0.07 ± 0.13
168	1st	Rear Entry	C	Door Casing	Wood	Gold	Intact	Negative	0.08 ± 0.14
169	1st	Rear Entry	C	Door Jamb	Wood	Gold	Intact	Negative	0.18 ± 0.18
170	1st	Rear Entry	C	Door Jamb	Wood	White	Intact	Negative	0.16 ± 0.15
171	1st	Rear Entry	A	Opening Casing	Wood	Gold	Intact	Negative	0.03 ± 0.08
172	1st	Rear Entry	C	Chair Rail	Wood	Gold	Intact	Negative	0.14 ± 0.19
173	1st	Rear Entry	D	Chair Rail	Wood	Gold	Intact	Negative	0.13 ± 0.32
174	1st	Rear Entry	A	Wall - Lower	Wood	Gold	Intact	Negative	0.05 ± 0.13
175	1st	Rear Entry	B	Wall - Lower	Wood	Gold	Intact	Negative	0.11 ± 0.15
176	1st	Rear Entry	C	Wall - Lower	Wood	Gold	Intact	Negative	0.07 ± 0.09
177	1st	Rear Entry	D	Wall - Lower	Wood	Gold	Intact	Negative	0.11 ± 0.15
178	1st	Rear Entry	A	Wall - Upper	Plaster	Gold	Intact	Null	0.60 ± 0.20
179	1st	Rear Entry	A	Wall - Upper	Plaster	Gold	Intact	Positive	1.70 ± 0.60
180	1st	Rear Entry	B	Wall - Upper	Plaster	Gold	Intact	Positive	12.70 ± 3.90
181	1st	Rear Entry	C	Wall - Upper	Plaster	Gold	Intact	Positive	11.80 ± 5.20
182	1st	Rear Entry	D	Wall - Upper	Plaster	Gold	Intact	Positive	8.30 ± 4.40
183	1st	Rear Entry	A	Ceiling	Plaster	White	Peeling	Positive	8.40 ± 4.50
184	1st	Rear Entry	D	Cabinet Door Lwr	Wood	Varnish	Intact	Negative	0.00 ± 0.02
185	1st	Rear Entry	D	Cabinet Body	Wood	Varnish	Intact	Negative	0.00 ± 0.02
186	1st	Room 4	C	Closet Floor	Wood	White	Intact	Negative	0.00 ± 0.02
187	2nd	Room 1	A	Window Sill	Wood	White	Intact	Negative	0.00 ± 0.02
188	2nd	Room 1	A	Window Casing	Wood	White	Intact	Negative	0.00 ± 0.02
189	2nd	Room 1	A	Window Sill	Wood	White	Intact	Negative	0.00 ± 0.02
190	2nd	Room 1	B	Window Sill	Wood	White	Intact	Negative	0.06 ± 0.20
191	2nd	Room 1	B	Window Casing	Wood	White	Intact	Negative	0.00 ± 0.02
192	2nd	Room 1	C	Opening Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
193	2nd	Room 1	C	Opening Casing	Wood	White	Intact	Negative	0.00 ± 0.02
194	2nd	Room 1	D	Door	Wood	White	Intact	Negative	0.00 ± 0.02
195	2nd	Room 1	D	Door Jamb	Wood	Brown	Intact	Negative	0.00 ± 0.02
196	2nd	Room 1	D	Door Casing	Wood	White	Intact	Negative	0.00 ± 0.02
197	2nd	Room 1	C	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
198	2nd	Room 1	A	Radiator	Metal	White	Intact	Negative	0.01 ± 0.05
199	2nd	Room 1	A	Wall	Plaster	Gray	Intact	Negative	0.02 ± 0.04
200	2nd	Room 1	B	Wall	Plaster	Blue	Intact	Negative	0.00 ± 0.02
201	2nd	Room 1	C	Wall	Plaster	Gray	Intact	Negative	0.00 ± 0.02
202	2nd	Room 1	D	Wall	Plaster	Gray	Intact	Negative	0.00 ± 0.02
203	2nd	Room 1	C	Ceiling	Fiberboard	White	Intact	Negative	0.00 ± 0.02
204	2nd	Room 2	B	Window Sill	Wood	White	Intact	Negative	0.01 ± 0.05
205	2nd	Room 2	B	Window Sill	Wood	White	Intact	Negative	0.01 ± 0.03
206	2nd	Room 2	B	Window Casing	Wood	White	Intact	Negative	0.00 ± 0.02
207	2nd	Room 2	A	Opening Casing	Wood	White	Intact	Negative	0.00 ± 0.02
208	2nd	Room 2	D	Door Rht	Wood	White	Intact	Negative	0.00 ± 0.02
209	2nd	Room 2	D	Door Jamb	Wood	White	Intact	Negative	0.00 ± 0.03

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
210	2nd	Room 2	D	Door Lft	Wood	White	Intact	Negative	0.00 ± 0.02
211	2nd	Room 2	D	Door Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
212	2nd	Room 2	B	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
213	2nd	Room 2	A	Radiator	Metal	White	Poor	Negative	0.01 ± 0.06
214	2nd	Room 2	A	Wall	Plaster	Blue	Intact	Negative	0.00 ± 0.02
215	2nd	Room 2	B	Wall	Plaster	Blue	Intact	Negative	0.00 ± 0.02
216	2nd	Room 2	C	Wall	Paneling	Blue	Intact	Negative	0.00 ± 0.02
217	2nd	Room 2	D	Wall	Plaster	Blue	Intact	Negative	0.00 ± 0.02
218	2nd	Room 2	B	Ceiling	Fiberboard	White	Intact	Negative	0.01 ± 0.05
219	2nd	Room 1	A	Radiator	Metal	White	Intact	Negative	0.00 ± 0.02
220	2nd	Room 3	D	Window Sill	Wood	White	Intact	Negative	0.02 ± 0.08
221	2nd	Room 3	D	Window Casing	Wood	White	Intact	Negative	0.01 ± 0.04
222	2nd	Room 3	B	Door	Wood	White	Intact	Negative	0.00 ± 0.02
223	2nd	Room 3	B	Door Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
224	2nd	Room 3	B	Door Casing	Wood	White	Intact	Negative	0.00 ± 0.02
225	2nd	Room 3	C	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
226	2nd	Room 3	A	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
227	2nd	Room 3	A	Wall	Plaster	Gray	Intact	Positive	11.10 ± 4.90
228	2nd	Room 3	B	Wall	Plaster	Gray	Intact	Positive	11.30 ± 5.00
229	2nd	Room 3	C	Wall	Plaster	Gray	Damaged	Positive	8.00 ± 4.30
230	2nd	Room 3	D	Wall	Plaster	Gray	Intact	Positive	11.90 ± 1.80
231	2nd	Room 3	C	Floor	Wood	Taupe	Intact	Negative	0.00 ± 0.02
232	2nd	Room 3	B	Floor	Wood	Taupe	Intact	Negative	0.01 ± 0.03
233	2nd	Room 4	D	Window Sill	Wood	Gray	Fair	Negative	0.08 ± 0.14
234	2nd	Room 4	D	Window Jamb	Wood	Brown	Fair	Negative	0.02 ± 0.05
235	2nd	Room 4	B	Door	Wood	White	Intact	Negative	0.00 ± 0.02
236	2nd	Room 4	B	Door Jamb	Wood	Brown	Intact	Negative	0.00 ± 0.02
237	2nd	Room 4	C	Closet Door	Wood	White	Intact	Negative	0.00 ± 0.02
238	2nd	Room 4	C	Closet Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
239	2nd	Room 4	C	Closet Threshold	Wood	Varnish	Intact	Negative	0.00 ± 0.02
240	2nd	Room 4	C	Closet Wall	Drywall	Green	Intact	Negative	0.00 ± 0.02
241	2nd	Room 4	D	Radiator	Metal	Silver	Fair	Negative	0.01 ± 0.02
242	2nd	Room 4	A	Wall	Drywall	Purple	Intact	Positive	2.90 ± 1.10
243	2nd	Room 4	B	Wall	Drywall	Purple	Intact	Positive	3.20 ± 1.10
244	2nd	Room 4	C	Wall	Drywall	Purple	Intact	Positive	2.90 ± 1.80
245	2nd	Room 4	D	Wall	Drywall	Purple	Intact	Negative	0.00 ± 0.02
246	2nd	Room 4	B	Ceiling	Drywall	White	Intact	Positive	1.90 ± 0.90
247	2nd	Room 4	B	Floor	Wood	Beige	Intact	Negative	0.00 ± 0.02
248	2nd	Room 4	C	Floor	Wood	Beige	Intact	Negative	0.00 ± 0.02
249	2nd	Room 5	D	Window Sill	Wood	White	Intact	Negative	0.00 ± 0.02
250	2nd	Room 5	D	Window Casing	Wood	White	Intact	Negative	0.00 ± 0.02
251	2nd	Room 5	B	Door Jamb	Wood	White	Intact	Negative	0.08 ± 0.11
252	2nd	Room 5	B	Door Casing	Wood	White	Intact	Negative	0.00 ± 0.02
253	2nd	Room 5	A	Closet Wall	Drywall	Red	Intact	Negative	0.01 ± 0.03
254	2nd	Room 5	A	Closet Wall	Drywall	Red	Intact	Negative	0.01 ± 0.02
255	2nd	Room 5	D	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
256	2nd	Room 5	D	Radiator	Metal	Bone	Poor	Negative	0.02 ± 0.09
257	2nd	Room 5	A	Wall	Drywall	Gray	Intact	Negative	0.00 ± 0.02
258	2nd	Room 5	B	Wall	Drywall	Gray	Intact	Negative	0.00 ± 0.02
259	2nd	Room 5	D	Wall	Drywall	Gray	Intact	Negative	0.00 ± 0.02
260	2nd	Room 5	C	Opening Jamb	Drywall	Gray	Intact	Negative	0.00 ± 0.02
261	2nd	Room 5	C	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
262	2nd	Room 5	C	Ceiling Trim	Wood	White	Intact	Negative	0.00 ± 0.02
263	2nd	Room 5	B	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.02
264	2nd	Room 5a	C	Window Sill	Wood	White	Intact	Negative	0.11 ± 0.22
265	2nd	Room 5a	C	Window Sill	Wood	White	Intact	Negative	0.22 ± 0.36
266	2nd	Room 5a	C	Window Casing	Wood	White	Intact	Negative	0.08 ± 0.10
267	2nd	Room 5a	B	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
268	2nd	Room 5a	B	Wall	Drywall	Gray	Intact	Negative	0.00 ± 0.02
269	2nd	Room 5a	C	Wall	Drywall	Gray	Intact	Negative	0.00 ± 0.02
270	2nd	Room 5a	D	Wall	Drywall	Gray	Intact	Negative	0.00 ± 0.02
271	2nd	Room 5a	B	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
272	2nd	Room 5a	B	Ceiling Trim	Wood	White	Intact	Negative	0.00 ± 0.02
273	2nd	Room 5a	A	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.02
274	2nd	Kitchen	B	Window Sill	Wood	White	Intact	Negative	0.00 ± 0.02
275	2nd	Kitchen	B	Window Casing	Wood	White	Intact	Negative	0.00 ± 0.02
276	2nd	Kitchen	D	Door Jamb	Wood	White	Intact	Negative	0.30 ± 0.42
277	2nd	Kitchen	D	Door Casing	Wood	White	Intact	Negative	0.00 ± 0.02
279	2nd	Kitchen	A	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
280	2nd	Kitchen	B	Cabinet Door Lwr	Wood	White	Fair	Negative	0.00 ± 0.02
281	2nd	Kitchen	B	Cabinet Frame	Wood	White	Intact	Negative	0.00 ± 0.02
282	2nd	Kitchen	C	Cabinet Frame	Wood	White	Intact	Negative	0.00 ± 0.02
283	2nd	Kitchen	C	Cabinet Door Upr	Wood	White	Intact	Negative	0.00 ± 0.02
284	2nd	Kitchen	A	Wall	Paneling	Blue	Intact	Negative	0.00 ± 0.02
285	2nd	Kitchen	B	Wall	Paneling	Blue	Intact	Negative	0.00 ± 0.04
286	2nd	Kitchen	C	Wall	Paneling	Blue	Intact	Negative	0.00 ± 0.02
287	2nd	Kitchen	D	Wall	Paneling	Blue	Intact	Negative	0.00 ± 0.02
288	2nd	Kitchen	C	Ceiling	Fiberboard	White	Intact	Negative	0.00 ± 0.02
289	2nd	Bath	C	Window Sill	Drywall	White	Intact	Negative	0.00 ± 0.02
290	2nd	Bath	D	Door Casing	Wood	White	Intact	Negative	0.00 ± 0.03
291	2nd	Bath	D	Door Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
292	2nd	Bath	D	Door Casing	Wood	White	Intact	Negative	0.00 ± 0.02
293	2nd	Bath	B	Shelf	Plywood	Wallpaper	Intact	Negative	0.00 ± 0.02
294	2nd	Bath	A	Cabinet Door Lwr	Wood	Brown	Intact	Negative	0.00 ± 0.02
295	2nd	Bath	A	Wall	Drywall	Maroon	Intact	Negative	0.00 ± 0.02
296	2nd	Bath	B	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
297	2nd	Bath	C	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
298	2nd	Bath	D	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
299	2nd	Bath	C	Radiator	Plaster	Black	Intact	Negative	0.03 ± 0.07
300	2nd	Bath	D	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
301	2nd	Rear Entry	C	Door	Wood	White	Fair	Negative	0.22 ± 0.27
302	2nd	Rear Entry	C	Door	Wood	White	Fair	Negative	0.09 ± 0.12
303	2nd	Rear Entry	C	Door Jamb	Wood	Gray	Fair	Negative	0.01 ± 0.04
304	2nd	Rear Entry	C	Door Threshold	Wood	Gray	Fair	Null	1.10 ± 0.20
305	2nd	Rear Entry	C	Door Threshold	Wood	Gray	Fair	Positive	1.20 ± 0.20
306	2nd	Rear Entry	B	Door	Wood	White	Intact	Negative	0.00 ± 0.02
307	2nd	Rear Entry	B	Door Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
308	2nd	Rear Entry	D	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
309	2nd	Rear Entry	A	Wall	Paneling	Gray	Intact	Negative	0.01 ± 0.05
310	2nd	Rear Entry	B	Wall	Paneling	Blue	Intact	Negative	0.00 ± 0.02
311	2nd	Rear Entry	C	Wall	Paneling	Blue	Intact	Negative	-0.40 ± 0.90
312	2nd	Rear Entry	C	Wall	Paneling	Blue	Intact	Negative	0.01 ± 0.03
315	2nd	Rear Entry	D	Wall	Paneling	Blue	Intact	Negative	0.00 ± 0.02
316	2nd	Rear Entry	A	Ceiling	Fiberboard	White	Intact	Negative	0.00 ± 0.02

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
317	2nd	Attic Stairs	B	Door	Wood	Brown	Intact	Negative	0.02 ± 0.04
318	2nd	Attic Stairs	B	Door Jamb	Wood	Brown	Intact	Negative	0.01 ± 0.03
319	2nd	Attic Stairs	B	Stair Riser	Wood	Brown	Fair	Negative	0.02 ± 0.07
320	2nd	Attic Stairs	B	Stair Riser	Wood	Brown	Fair	Negative	0.01 ± 0.02
321	2nd	Attic Stairs	C	Stair Tread	Wood	Brown	Fair	Negative	0.11 ± 0.15
322	2nd	Attic Stairs	C	Stair Tread	Wood	Brown	Fair	Negative	0.03 ± 0.05
323	2nd	Attic Stairs	A	Wall - Lower	Plaster	Beige	Poor	Positive	2.00 ± 0.50
324	2nd	Attic Stairs	A	Wall - Upper	Plaster	Gold	Poor	Positive	1.50 ± 0.40
325	2nd	Attic Stairs	B	Wall	Plaster	Beige	Poor	Positive	1.80 ± 0.50
326	2nd	Attic Stairs	D	Wall - Upper	Plaster	Beige	Poor	Positive	1.50 ± 0.50
327	2nd	Attic Stairs	C	Wall - Lower	Plaster	Brown	Poor	Positive	2.40 ± 0.60
328	2nd	Attic Stairs	D	Wall - Lower	Plaster	Brown	Damaged	Positive	1.90 ± 0.50
329	2nd	Attic Stairs	A	Stair Tread	Wood	Brown	Fair	Negative	0.04 ± 0.10
330	Attic	Attic	A	Window Sill Rht	Wood	Brown	Fair	Negative	0.05 ± 0.04
331	Attic	Attic	A	Window Casing	Wood	Brown	Fair	Negative	0.06 ± 0.12
332	Attic	Room 6	C	Window Sill Lft	Wood	Unpainted	Fair	Negative	0.02 ± 0.07
333	Attic	Room 6	C	Window Casing	Wood	Beige	Poor	Negative	0.06 ± 0.08
334	Attic	Room 6	C	Window Sill Rht	Wood	Unpainted	Poor	Negative	0.05 ± 0.08
335	Attic	Room 6	C	Window Casing	Wood	Beige	Poor	Negative	0.14 ± 0.17
336	Attic	Room 6	C	Window Sash Int.	Wood	Beige	Poor	Positive	2.80 ± 1.80
337	Attic	Room 6	A	Door	Wood	Off-White	Fair	Negative	0.04 ± 0.07
338	Attic	Room 6	A	Door Casing	Wood	Yellow	Poor	Negative	0.05 ± 0.11
339	Attic	Room 6	A	Door Jamb	Wood	Yellow	Fair	Negative	0.04 ± 0.06
340	Attic	Room 6	B	Shelf Lft	Wood	Gray	Fair	Negative	0.08 ± 0.16
341	Attic	Room 6	B	Shelf Lft	Wood	Gray	Fair	Negative	0.02 ± 0.07
342	Attic	Room 6	B	Shelf Wall	Plywood	Gray	Intact	Negative	0.02 ± 0.07
343	Attic	Room 6	B	Shelf Rht	Plywood	Gray	Fair	Negative	0.08 ± 0.15
344	Attic	Room 6	B	Wall	Drywall	Wallpaper	Damaged	Negative	0.01 ± 0.03
345	Attic	Room 6	B	Wall	Drywall	Wallpaper	Damaged	Negative	0.02 ± 0.07
346	Attic	Room 6	C	Wall	Drywall	Wallpaper	Damaged	Negative	0.01 ± 0.02
347	Attic	Room 6	D	Wall	Drywall	Wallpaper	Intact	Negative	0.00 ± 0.02
348	Attic	Room 6	A	Ceiling	Drywall	White	Damaged	Negative	0.01 ± 0.02
349	Attic	Room 6	A	Floor	Wood	Brown	Fair	Negative	0.14 ± 0.12
350	1st	Rear Stairs	A	Door	Wood	Gray	Fair	Positive	1.60 ± 0.40
351	1st	Rear Stairs	A	Door Jamb	Wood	Gray	Intact	Positive	4.70 ± 2.50
352	1st	Rear Stairs	A	Door Threshold	Wood	Gray	Intact	Positive	2.20 ± 0.70
353	1st	Rear Stairs	A	Door Threshold	Wood	Gray	Intact	Positive	1.60 ± 0.40
354	1st	Rear Stairs	A	Door Kick Plate	Wood	Gray	Intact	Positive	16.60 ± 6.40
355	1st	Rear Stairs	B	Door	Wood	White	Poor	Positive	2.00 ± 0.80
356	1st	Rear Stairs	B	Door Jamb	Wood	White	Poor	Positive	8.40 ± 4.20
357	1st	Rear Stairs	C	Door Casing	Wood	White	Intact	Negative	0.00 ± 0.02
358	1st	Rear Stairs	C	Door Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
359	1st	Rear Stairs	A	Wall	Metal	White	Intact	Negative	0.01 ± 0.03
360	1st	Rear Stairs	Ctr	Stair Stringer	Wood	Gray	Intact	Positive	10.20 ± 5.80
361	1st	Rear Stairs	Ctr	Stair Stringer	Wood	Gray	Intact	Positive	3.90 ± 1.50
362	1st	Rear Stairs	Cr	Stair Newel Post	Wood	Gray	Intact	Negative	0.00 ± 0.02
363	1st	Rear Stairs	Ctr	Stair Railing	Wood	Gray	Defective	Positive	4.60 ± 3.50
364	1st	Rear Stairs	Ctr	Stair Baluster	Wood	Gray	Defective	Positive	13.70 ± 7.20
365	1st	Rear Stairs	B	Stair Tread	Wood	Gray	Poor	Positive	4.40 ± 1.90
366	1st	Rear Stairs	B	Stair Tread	Wood	Gray	Poor	Positive	6.50 ± 3.50
367	1st	Rear Stairs	D	Stair Riser	Wood	Gray	Intact	Positive	13.50 ± 5.50
368	1st	Rear Stairs	A	Stair Stringer	Wood	Gray	Intact	Positive	10.30 ± 4.60

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
369	1st	Rear Stairs	A	Stair Wallcasing	Wood	Gray	Intact	Positive	18.70 ± 6.80
370	1st	Rear Stairs	B	Stair Wallcasing	Wood	Gray	Intact	Positive	2.30 ± 0.90
371	1st	Rear Stairs	C	Stair Wallcasing	Wood	Gray	Intact	Positive	3.10 ± 1.70
372	1st	Rear Stairs	B	Landing Floor	Plywood	Gray	Poor	Negative	0.00 ± 0.02
373	1st	Rear Stairs	B	Landing Steps	Plywood	Gray	Poor	Negative	0.00 ± 0.02
374	1st	Rear Stairs	B	Landing Riser	Plywood	Gray	Fair	Negative	0.00 ± 0.02
375	1st	Rear Stairs	B	Wall	Drywall	White	Damaged	Negative	0.00 ± 0.02
376	1st	Rear Stairs	C	Wall	Drywall	White	Fair	Negative	0.00 ± 0.02
377	1st	Rear Stairs	C	Ceiling Trim	Wood	White	Intact	Negative	0.00 ± 0.02
378	1st	Rear Stairs	C	Ceiling	Wood	White	Peding	Negative	0.60 ± 0.30
379	1st	Rear Stairs	C	Ceiling	Wood	White	Peding	Null	0.90 ± 0.10
380	1st	Rear Stairs	C	Ceiling	Wood	White	Peding	Null	1.00 ± 0.10
381	1st	Rear Stairs	B	Ceiling	Wood	White	Peding	Negative	0.23 ± 0.25
382	1st	Rear Stairs	B	Ceiling	Wood	White	Peding	Negative	0.80 ± 0.20
383	1st	Rear Stairs	C	Floor	Plywood	Gray	Poor	Negative	0.00 ± 0.02
384	2nd	Rear Stairs	A	Door	Wood	Gray	Fair	Positive	1.40 ± 0.30
386	2nd	Rear Stairs	A	Door	Wood	Gray	Fair	Positive	1.30 ± 0.20
387	2nd	Rear Stairs	A	Door Jamb	Wood	Gray	Fair	Positive	11.80 ± 4.90
388	2nd	Rear Stairs	A	Door Threshold	Wood	Gray	Poor	Positive	4.00 ± 1.40
389	2nd	Rear Stairs	C	Window Sill Lft	Wood	Gray	Intact	Negative	0.01 ± 0.04
390	2nd	Rear Stairs	C	Window Frame	Wood	Gray	Intact	Negative	0.00 ± 0.02
391	2nd	Rear Stairs	Ctr	Wall - Lower	Wood	Gray	Intact	Positive	2.70 ± 1.00
392	2nd	Rear Stairs	Ctr	Stair Newel Post	Wood	Gray	Intact	Positive	2.50 ± 0.90
393	2nd	Rear Stairs	Ctr	Wall Cap	Wood	Gray	Intact	Positive	2.10 ± 0.70
394	2nd	Rear Stairs	A	Closet Door	Wood	White	Intact	Negative	0.17 ± 0.19
395	2nd	Rear Stairs	A	Closet Shelf	Wood	Unpainted	Intact	Negative	0.01 ± 0.06
396	2nd	Rear Stairs	A	Closet Wall Int.	Wood	Unpainted	Intact	Negative	0.04 ± 0.23
397	2nd	Rear Stairs	A	Closet Wall Ext.	Wood	White	Intact	Positive	4.20 ± 1.80
398	2nd	Rear Stairs	B	Wall	Wood	White	Intact	Negative	0.29 ± 0.28
399	2nd	Rear Stairs	B	Wall 2x4	Wood	White	Intact	Negative	0.11 ± 0.12
400	2nd	Rear Stairs	B	Floor	Wood	Black	Poor	Negative	0.28 ± 0.21
401	2nd	Rear Stairs	B	Floor	Wood	Black	Poor	Negative	0.40 ± 0.40
402	2nd	Rear Stairs	C	Wall - Upper	Wood	White	Fair	Negative	0.00 ± 0.02
403	2nd	Rear Stairs	C	Wall - Lower	Wood	White	Peding	Negative	0.17 ± 0.16
404	2nd	Rear Stairs	C	Wall - Lower	Wood	White	Peding	Negative	0.10 ± 0.11
405	2nd	Rear Stairs	C	Wall 2x4	Wood	White	Poor	Negative	0.12 ± 0.13
406	2nd	Rear Stairs	C	Wall 4x4	Wood	White	Poor	Positive	1.30 ± 0.30
407	2nd	Rear Stairs	C	Ceiling	Wood	White	Peding	Negative	0.00 ± 0.02
408	2nd	Rear Stairs	C	Ceiling	Wood	White	Peding	Negative	0.01 ± 0.04
409	2nd	Rear Stairs	C	Ceiling Rafter	Wood	White	Intact	Negative	0.00 ± 0.02
410	2nd	Rear Stairs	C	Ceiling Rafter	Wood	White	Intact	Negative	0.03 ± 0.13
411	2nd	Rear Stairs	A	Floor	Wood	Gray	Fair	Negative	0.70 ± 0.20
412	2nd	Rear Stairs	A	Floor	Wood	Gray	Fair	Negative	0.50 ± 0.30
413	2nd	Rear Stairs	A	Floor	Wood	Unpainted	Fair	Negative	0.01 ± 0.05
414	1st	Front Stairs	A	Door	Wood	Brown	Intact	Negative	0.04 ± 0.06
415	1st	Front Stairs	A	Door Jamb	Wood	Brown	Intact	Negative	0.04 ± 0.05
416	1st	Front Stairs	A	Door Casing	Wood	Brown	Intact	Negative	0.09 ± 0.13
417	1st	Front Stairs	B	Door	Wood	Brown	Intact	Negative	0.00 ± 0.02
418	1st	Front Stairs	B	Door Jamb	Wood	Brown	Intact	Negative	0.11 ± 0.33
419	1st	Front Stairs	D	Window Sill	Wood	Brown	Fair	Negative	0.03 ± 0.05
420	1st	Front Stairs	D	Window Casing	Wood	Brown	Intact	Negative	0.03 ± 0.05
421	1st	Front Stairs	D	Wind. Sash Int. (Fixed)	Wood	Brown	Intact	Negative	0.02 ± 0.05

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
422	1st	Front Stairs	A	Baseboard	Wood	Brown	Intact	Negative	0.02 ± 0.04
423	1st	Front Stairs	A	Radiator	Metal	Silver	Intact	Negative	0.06 ± 0.25
424	1st	Front Stairs	A	Door Threshold	Wood	Gray	Poor	Positive	8.30 ± 4.00
425	1st	Front Stairs	Cr	Stair Newel Post	Wood	Brown	Fair	Negative	0.01 ± 0.03
426	1st	Front Stairs	Cr	Stair Baluster	Wood	Brown	Intact	Negative	0.01 ± 0.03
427	1st	Front Stairs	Cr	Stair Railing	Wood	Brown	Intact	Negative	0.02 ± 0.06
428	1st	Front Stairs	C	Stair Stringer	Wood	Brown	Intact	Negative	0.05 ± 0.07
429	1st	Front Stairs	C	Stair Tread	Wood	Brown	Intact	Negative	0.04 ± 0.09
430	1st	Front Stairs	B	Stair Riser	Wood	Brown	Intact	Negative	0.11 ± 0.12
431	1st	Front Stairs	A	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.03
432	1st	Front Stairs	A	Wall	Plaster	Gold	Intact	Positive	4.50 ± 3.10
433	1st	Front Stairs	B	Wall	Plaster	Gold	Intact	Positive	4.00 ± 1.80
434	1st	Front Stairs	C	Wall	Plaster	Gold	Intact	Positive	4.30 ± 3.10
435	1st	Front Stairs	D	Wall	Plaster	Gold	Damaged	Positive	4.50 ± 2.00
436	1st	Front Stairs	D	Ceiling	Plaster	White	Intact	Positive	8.00 ± 5.30
437	2nd	Front Stairs	C	Wall	Plaster	Wallpaper	Poor	Positive	3.60 ± 0.90
438	2nd	Front Stairs	Cr	Stair Newel Post	Wood	Brown	Intact	Negative	0.02 ± 0.04
439	2nd	Front Stairs	A	Window Sill	Wood	Brown	Fair	Negative	0.04 ± 0.03
440	2nd	Front Stairs	A	Window Casmg	Wood	Brown	Fair	Negative	0.03 ± 0.05
441	2nd	Front Stairs	B	Door	Wood	Brown	Intact	Negative	0.00 ± 0.02
442	2nd	Front Stairs	B	Door Jamb	Wood	Brown	Fair	Negative	0.04 ± 0.07
443	2nd	Front Stairs	D	Door	Wood	Brown	Fair	Negative	0.01 ± 0.04
444	2nd	Front Stairs	D	Door Jamb	Wood	Brown	Fair	Negative	0.02 ± 0.06
445	2nd	Front Stairs	D	Door Threshold	Wood	Brown	Fair	Negative	0.03 ± 0.05
446	2nd	Front Stairs	A	Baseboard	Wood	Brown	Intact	Negative	0.05 ± 0.17
447	2nd	Front Stairs	A	Floor	Wood	Brown	Intact	Negative	0.03 ± 0.05
448	2nd	Front Stairs	A	Wall	Plaster	Taupe	Intact	Positive	5.20 ± 2.80
449	2nd	Front Stairs	B	Wall	Plaster	Taupe	Intact	Positive	4.70 ± 2.10
450	2nd	Front Stairs	C	Wall	Plaster	Taupe	Intact	Positive	4.10 ± 3.10
451	2nd	Front Stairs	D	Wall	Plaster	Taupe	Intact	Positive	3.80 ± 1.60
452	2nd	Front Stairs	B	Ceiling	Plaster	White	Intact	Positive	4.20 ± 0.90
453	1st	Front Porch	C	Door	Wood	Brown	Fair	Negative	0.09 ± 0.09
454	1st	Front Porch	C	Door	Wood	Brown	Fair	Negative	0.11 ± 0.11
455	1st	Front Porch	C	Door Jamb	Wood	White	Fair	Positive	13.80 ± 5.50
456	1st	Front Porch	C	Door Threshold	Wood	Gold	Poor	Positive	21.70 ± 9.60
457	1st	Front Porch	C	Door Kick Plate	Wood	Gray	Intact	Positive	15.90 ± 6.00
458	1st	Front Porch	A	Door Jamb	Wood	White	Fair	Negative	0.30 ± 0.21
459	1st	Front Porch	A	Door Jamb	Wood	White	Fair	Negative	0.30 ± 0.25
460	1st	Front Porch	A	Porch Column	Wood	White	Intact	Positive	17.00 ± 6.50
461	1st	Front Porch	A-B	Porch Column	Wood	White	Intact	Positive	18.20 ± 8.20
462	1st	Front Porch	A	Window Sill	Wood	White	Intact	Negative	0.70 ± 0.30
463	1st	Front Porch	A	Window Sill	Wood	White	Intact	Positive	1.70 ± 0.60
464	1st	Front Porch	B	Window Sill	Wood	White	Poor	Negative	0.19 ± 0.23
465	1st	Front Porch	A	Storm Insert	Wood	White	Fair	Negative	0.60 ± 0.40
466	1st	Front Porch	A	Storm Insert	Wood	White	Fair	Negative	0.28 ± 0.21
467	1st	Front Porch	A	Storm Insert	Wood	White	Poor	Negative	0.02 ± 0.08
468	1st	Front Porch	A	Storm Insert	Wood	White	Poor	Negative	0.07 ± 0.17
469	1st	Front Porch	D	Storm Insert	Wood	White	Poor	Negative	0.11 ± 0.10
470	1st	Front Porch	D	Storm Insert Cr	Wood	White	Poor	Negative	0.13 ± 0.14
471	1st	Front Porch	B	Storm Screen	Wood	White	Poor	Null	0.13 ± 0.41
472	1st	Front Porch	B	Storm Screen	Wood	White	Poor	Negative	0.01 ± 0.03
473	1st	Front Porch	B	Storm Screen	Wood	White	Poor	Negative	0.03 ± 0.06

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC	
474	1st	Front Porch	B	Screens (loose)	Wood	White	Fair	Negative	0.50 ± 0.30	
477	1st	Front Porch	A	Wall - Lower	Plywood	Gray	Intact	Negative	0.80 ± 0.20	
478	1st	Front Porch	A	Wall - Lower	Plywood	Beige	Intact	Null	1.10 ± 0.20	
479	1st	Front Porch	A	Wall - Lower	Plywood	Beige	Intact	Positive	1.00 ± 0.10	
480	1st	Front Porch	B	Wall - Lower	Plywood	Beige	Intact	Positive	1.00 ± 0.10	
481	1st	Front Porch	D	Wall - Lower	Plywood	Gray	Intact	Negative	0.80 ± 0.20	
482	1st	Front Porch	A	Porch Ceiling	Wood	White	Peeling	Positive	2.00 ± 0.70	
483	1st	Front Porch	D	Porch Ceiling	Wood	White	Intact	Positive	6.50 ± 3.60	
484	1st	Front Porch	D	Porch Upper Trim	Wood	White	Poor	Positive	12.70 ± 5.30	
485	1st	Front Porch	A	Porch Upper Trim	Wood	White	Poor	Positive	14.70 ± 5.70	
486	1st	Front Porch	C	Window Blind Stop	Wood	White	Poor	Positive	12.90 ± 5.20	
487	1st	Front Porch	A	Porch Floor	Wood	Gray	Poor	Negative	0.24 ± 0.08	
488	1st	Front Porch	A	Porch Floor	Wood	Gray	Poor	Negative	0.18 ± 0.16	
489	1st	Front Porch	C	Porch Floor	Wood	Gray	Fair	Null	0.70 ± 0.30	
490	1st	Front Porch	C	Porch Floor	Wood	Gray	Fair	Null	0.70 ± 0.30	
491	1st	Front Porch	C	Porch Floor	Wood	Gray	Fair	Negative	0.80 ± 0.10	
492	1st	Front Porch	C	Porch Floor	Wood	Gray	Fair	Positive	1.60 ± 0.40	
493				Calibration- Surface				1.53mg/cm ²	Positive	1.60 ± 0.30
494				Calibration- Buried				1.04mg/cm ²	Positive	1.00 ± 0.10
495				Calibration- Buried				1.04mg/cm ²	Positive	1.10 ± 0.10
496				Calibration- Buried				1.04mg/cm ²	Positive	1.10 ± 0.10
497				Calibration- Buried		08/22/19		0.01mg/cm ²	Negative	0.00 ± 0.02
498				Calibration- Surface		08/27/19		1.53mg/cm ²	Positive	1.60 ± 0.20
499				Calibration- Surface				1.04mg/cm ²	Positive	1.10 ± 0.10
500				Calibration- Surface				1.04mg/cm ²	Positive	1.10 ± 0.10
501				Calibration- Surface				1.04mg/cm ²	Positive	1.00 ± 0.10
502				Calibration- Surface				0.01mg/cm ²	Negative	0.00 ± 0.02
503	1st	Base, Stairs	D	Door	Wood	Brown	Intact	Positive	4.40 ± 1.70	
504	1st	Base, Stairs	D	Door Jamb	Wood	White	Fair	Positive	11.90 ± 4.90	
505	1st	Base, Stairs	D	Door Casing	Wood	Gray	Intact	Positive	13.40 ± 6.80	
506	1st	Base, Stairs	A	Wall	Plywood	White	Intact	Positive	3.90 ± 1.90	
507	1st	Base, Stairs	A	Wall Trim	Wood	White	Intact	Null	0.17 ± 0.52	
508	1st	Base, Stairs	A	Wall Trim	Wood	White	Intact	Null	1.00 ± 0.30	
509	1st	Base, Stairs	A	Wall Trim	Wood	White	Intact	Null	1.10 ± 0.30	
510	1st	Base, Stairs	A	Wall Trim	Wood	White	Intact	Null	1.30 ± 0.30	
511	1st	Base, Stairs	C	Wall Trim	Wood	White	Intact	Negative	0.00 ± 0.02	
512	1st	Base, Stairs	C	Wall	Plywood	Gray	Intact	Negative	0.02 ± 0.09	
513	Base	Base, Stairs	C	Stair Tread	Wood	Bone	Intact	Negative	0.07 ± 0.08	
514	Base	Base, Stairs	C	Stair Tread	Wood	Bone	Intact	Negative	0.60 ± 0.30	
515	Base	Base, Stairs	C	Stair Tread Edge	Wood	White	Fair	Negative	0.05 ± 0.17	
516	Base	Base, Stairs	C	Stair Tread Edge	Wood	White	Fair	Negative	0.10 ± 0.22	
517	Base	Base, Stairs	C	Stair Stringer	Wood	White	Intact	Positive	2.80 ± 0.80	
518	Base	Base, Stairs	C	Beam	Wood	Gray	Intact	Negative	0.01 ± 0.05	
519	Base	Base, Stairs	A	Wall	Wood	Gray	Intact	Positive	7.60 ± 5.00	
520	Base	Base, Stairs	A	Wall	Wood	Gray	Intact	Negative	0.01 ± 0.05	
521	Base	Base, Stairs	A	Opening Jamb	Wood	Gray	Intact	Positive	7.10 ± 3.30	
522	Base	Base, Stairs	D	Opening Jamb	Wood	Gray	Intact	Negative	0.01 ± 0.03	
523	Base	Base, Stairs	D	Wall	Wood	Gray	Intact	Positive	5.10 ± 2.20	
524	Base	Base, Stairs	B	Wall	Brick	Gray	Defective	Negative	0.00 ± 0.02	
525	Base	Base, Stairs	C	Wall - Upper	Brick	White	Intact	Negative	0.40 ± 0.10	
526	Base	Base, Stairs	C	Wall - Lower	Concrete	Gray	Intact	Negative	0.50 ± 0.10	
527		Exterior	C	Window Sash Ext.	Wood	White	Defective	Positive	1.50 ± 0.30	

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
528		Exterior	C	Porch Rail Cap	Wood	White	Defective	Negative	0.00 ± 0.02
529		Exterior	C	Porch Floor	Wood	Gray	Defective	Negative	0.00 ± 0.03
530		Exterior	C	Porch Floor	Wood	Gray	Defective	Negative	0.00 ± 0.04
531		Exterior	C	Porch Steps	Wood	Gray	Defective	Negative	0.00 ± 0.02
532		Exterior	A	Porch Column	Wood	White	Defective	Positive	5.70 ± 4.30
533		Exterior	A	Porch Column	Wood	White	Defective	Positive	3.90 ± 1.20
534		Exterior	D	Porch Sill	Wood	White	Defective	Negative	0.12 ± 0.12
535		Exterior	D	Porch Sill	Wood	White	Defective	Negative	0.29 ± 0.20
536		Exterior	D	Porch Wind. Frame	Wood	White	Defective	Negative	0.50 ± 0.30
537		Exterior	D	Porch Wind. Frame	Wood	White	Defective	Negative	0.40 ± 0.50
538		Exterior	D	Porch Wind. Frame	Wood	White	Defective	Negative	0.60 ± 0.30
539		Exterior	A	Porch Wind. Frame	Wood	White	Defective	Negative	0.40 ± 0.30
540		Exterior	A	Storm Insert	Wood	White	Defective	Positive	1.50 ± 0.50
541		Exterior	A	Storm Insert	Wood	White	Defective	Negative	0.08 ± 0.03
542		Exterior	A	Storm Insert	Wood	White	Defective	Null	0.13 ± 0.04
543		Exterior	A	Storm Insert	Wood	White	Defective	Null	0.21 ± 0.04
544		Exterior	A	Storm Insert	Wood	White	Defective	Negative	0.23 ± 0.06
545		Exterior	A	Storm Insert	Wood	White	Defective	Negative	0.16 ± 0.09
546		Exterior	A	Porch Lower Wall	Wood	White	Intact	Positive	15.20 ± 7.40
547		Exterior	B	Porch Lower Wall	Wood	White	Defective	Positive	15.40 ± 5.70
548		Exterior	B	Ext. Foundation	Brick	Gray	Intact	Positive	9.10 ± 4.50
549		Exterior	B	Ext. Foundation	Brick	Gray	Intact	Positive	6.70 ± 3.80
550		Exterior	B	Cell. Window Storm	Wood	Gray	Defective	Positive	6.10 ± 4.20
551		Exterior	B	Cell. Window Frame	Wood	Gray	Intact	Negative	0.01 ± 0.03
552		Exterior	B	Cell. Window Storm	Wood	Gray	Defective	Negative	0.11 ± 0.18
553		Exterior	B	Step	Concrete	Gray	Defective	Negative	0.05 ± 0.05
554		Exterior	B	Step	Concrete	Gray	Intact	Negative	0.00 ± 0.02
555		Exterior	C	Porch Lower Trim	Wood	Gray	Intact	Negative	0.00 ± 0.03
556		Exterior	D	Porch Lower Trim	Wood	White	Intact	Negative	0.80 ± 0.20
557		Exterior	D	Porch Lattice Trim	Wood	White	Intact	Positive	15.60 ± 5.60
558		Exterior	D	Ext. Foundation	Brick	Black	Defective	Positive	2.30 ± 0.90
559		Exterior	D	Cell. Wind. Frame	Wood	White	Defective	Negative	0.40 ± 0.20
560		Exterior	D	Cell. Wind. Frame	Wood	White	Defective	Null	0.90 ± 0.20
561		Exterior	D	Cell. Wind. Frame Ctr	Wood	White	Defective	Positive	2.60 ± 0.90
562		Exterior	D	Cell. Wind. Storm	Wood	White	Defective	Negative	0.50 ± 0.30
563		Exterior	D	Cell. Wind. Storm	Wood	White	Defective	Null	0.70 ± 0.30
564		Exterior	D	Cell. Wind. Storm	Wood	White	Defective	Negative	0.40 ± 0.40
565		Exterior	D	Cell. Wind. Storm	Wood	White	Defective	Negative	0.50 ± 0.30
566		Garage Ext	A	Overhead Dr	Metal	White	Intact	Negative	0.00 ± 0.03
567		Garage Ext	A	Ext. Soffit	Wood	White	Defective	Positive	11.80 ± 4.80
568		Garage Ext	B	Ext. Soffit	Wood	White	Defective	Positive	8.50 ± 5.00
569		Garage Ext	B	Ext. Fascia	Wood	Unpainted	Intact	Negative	0.22 ± 0.23
570		Garage Ext	B	Window Casing	Wood	White	Defective	Positive	2.60 ± 0.60
571		Garage Ext	B	Window Sill	Wood	White	Damaged	Negative	0.05 ± 0.03
572		Garage Ext	B	Window Sash Ext.	Wood	White	Defective	Positive	5.80 ± 3.90
573		Garage Ext	B	Ext. Siding	Wood	Brown	Intact	Negative	0.02 ± 0.05
574		Garage Ext	B	Ext. Siding	Wood	Brown	Intact	Negative	0.00 ± 0.02
575		Garage Ext	C	Ext. Siding	Wood	Brown	Intact	Negative	0.01 ± 0.04
576		Garage Ext	C	Ext. Siding	Wood	Brown	Intact	Negative	0.08 ± 0.18
577		Garage Ext	C	Window Casing Rht	Wood	White	Defective	Negative	0.60 ± 0.40
578		Garage Ext	C	Window Casing Rht	Wood	White	Defective	Negative	0.27 ± 0.18
579		Garage Ext	C	Window Sash Ext. Rht	Wood	White	Defective	Negative	0.30 ± 0.19

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
580		Garage Ext	C	Window Sash Ext. Rht	Wood	White	Defective	Negative	0.20 ± 0.05
581		Garage Ext	C	Window Sash Ext. Rht	Wood	White	Defective	Negative	0.50 ± 0.40
582		Garage Ext	C	Window Sash Ext. Rht	Wood	White	Defective	Negative	0.60 ± 0.20
583		Garage Ext	C	Window Sash Ext. Lft	Wood	White	Defective	Negative	0.50 ± 0.10
584		Garage Ext	C	Window Sash Ext. Lft	Wood	White	Defective	Positive	7.10 ± 4.40
585		Garage Ext	C	Window Sash Ext. Rht	Wood	White	Defective	Positive	10.00 ± 4.40
586		Garage Ext	D	Window Sash Ext.	Wood	White	Defective	Positive	11.10 ± 6.10
587		Garage Ext	D	Window Casing	Wood	White	Intact	Positive	7.40 ± 4.70
588		Garage Ext	D	Ext. Soffit	Wood	White	Defective	Positive	9.30 ± 4.20
589		Garage Ext	D	Ext. Fascia	Wood	White	Damaged	Positive	9.40 ± 5.40
590		Garage Ext	D	Ext. Siding	Wood	Brown	Intact	Negative	0.03 ± 0.11
591		Garage Ext	D	Ext. Siding	Wood	Brown	Intact	Negative	0.00 ± 0.02
592		Garage Ext	C	Ext. Soffit	Wood	White	Defective	Positive	7.60 ± 5.10
593		Garage Ext	C	Ext. Soffit	Wood	White	Defective	Negative	0.00 ± 0.02
594				Calibration- Surface			1.53mg/cm ²	Positive	1.50 ± 0.20
595				Calibration- Surface			1.04mg/cm ²	Positive	1.00 ± 0.10
596				Calibration- Surface			1.04mg/cm ²	Positive	1.10 ± 0.10
597				Calibration- Surface			1.04mg/cm ²	Positive	1.10 ± 0.10
598				Calibration- Buried		08/27/19	0.01mg/cm ²	Negative	0.00 ± 0.02



Environmental Hazards Services, L.L.C.
 7469 Whitepine Rd
 Richmond, VA 23237
 Telephone: 800.347.4010

Lead Dust Wipe Analysis Report

Report Number: 19-08-03949

Client: CT Lead Paint Solutions Inc.
 1245 Hebron Avenue
 Glastonbury, CT 06033

Received Date: 08/26/2019
 Analyzed Date: 08/29/2019
 Reported Date: 08/29/2019

Project/Test Address: 19-0254; Rivera Residence Assessment Tests; 48 Convent Ave; Norwich, CT 06360

Collection Date: 08/22/2019

Client Number:
 07-1566

Laboratory Results

Fax Number:
 860-633-3330

Lab Sample Number	Client Sample Number	Collection Location	Surface	Total Pb (ug)	Wipe Area (ft ²)	Concentration (ug/ft ²)	Narrative ID
19-08-03949-001	DW-10	A SIDE NEAR DOOR ROOM 3 1ST FLOOR	FL	5.28	1.00	5.28	
19-08-03949-002	DW-11	D SIDE ROOM 3 1ST FLOOR	SL	62.1	0.667	93.1	
19-08-03949-003	DW-12	D SIDE ROOM 3 1ST FLOOR	WW	116	0.451	258	
19-08-03949-004	DW-13	D SIDE ROOM 4 1ST FLOOR	FL	6.38	1.00	6.38	
19-08-03949-005	DW-14	DSIDE ROOM 4 1ST FLOOR	SL	51.9	0.590	88.0	
19-08-03949-006	DW-15	C SIDE KITCHEN 1ST FLOOR	FL	6.94	1.00	6.94	
19-08-03949-007	DW-16	A SIDE NEAR TV ROOM 1 2ND FLOOR	FL	<5.00	1.00	<5.00	
19-08-03949-008	DW-17	A SIDE LEFT ROOM 1 2ND FLOOR	SL	6.46	0.306	21.1	
19-08-03949-009	DW-18	B SIDE LEFT ROOM 2 2ND FLOOR	WW	67.3	0.705	95.5	
19-08-03949-010	DW-19	D SIDE ROOM 5 2ND FLOOR	FL	<5.00	1.00	<5.00	
19-08-03949-011	DW-20	D SIDE NEAR ATTIC DR FRONT STAIRS 2ND FLOOR	FL	48.0	1.00	48.0	
19-08-03949-012	DW-21	C SIDE REAR STAIRS 2ND FLOOR	FL	18.0	1.00	18.0	

Environmental Hazards Services, L.L.C

Client Number: 07-1566
Project/Test Address: 19-0254; Rivera Residence Assessment Tests; 48
 Convent Ave; Norwich, CT 06360

Report Number: 19-08-03949

Lab Sample Number	Client Sample Number	Collection Location	Surface	Total Pb (ug)	Wipe Area (ft ²)	Concentration (ug/ft ²)	Narrative ID
-------------------	----------------------	---------------------	---------	---------------	------------------------------	-------------------------------------	--------------

Method: ASTM E-1979-17/EPA SW846 7000B

Accreditation #: CT PH-0234

Reviewed By Authorized Signatory: Melissa Kanode

Missy Kanode

QA/QC Clerk

The Federal lead guidelines for dust clearance levels by wipe sampling: Floors (FL) - 40 ug/ft², Interior Window Sills (SL) - 250 ug/ft², Window Wells (WW) - 400 ug/ft².

Effective April 1, 2017 all existing Office of Lead Hazard Control and Healthy Homes (OLHCHH), Lead Based Paint Hazard Control (LBPHC), and Lead Hazard Reduction (LHRD) grantees will use the following dust-lead action levels and clearance action levels (or lower levels if required by local, state or tribal authorities having jurisdictions):

Dust-Lead Action Levels: Floors (FL) - ≥ 10 ug/ft², Window Sills (SL)- ≥ 100 ug/ft²
 Lead Clearance Action Levels: Interior Floors (FL) - < 10 ug/ft², Porch Floors (PFL) - < 40 ug/ft²
 Window Sills (SL)- < 100 ug/ft², Window Troughs (WW) - < 100 ug/ft²

The Reporting Limit (RL) is 5.00 ug Total Pb. Reported results are not corrected for field blanks. Dust wipe area and results are calculated based on area measurements determined by the client. All internal quality control requirements associated with this batch were met, unless otherwise noted.

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, etc., was provided by the client. Results reported above in ug/ft² are calculated based on area supplied by the client. If the report does not contain the result for a field blank, it is due to the fact that the client did not include a field blank with their samples. EHS sample results do not reflect blank correction. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Services, L.L.C.

ELLAP Accreditation through AIHA-LAP, LLC (100420), NY ELAP #11714.

Legend	ug = microgram	ug/ft ² = micrograms per square foot	Pb = lead
	mL = milliliter	ft ² = square foot	

19-08-03949



Environmental Hazards Services, LLC
 7469 Whitepine Road
 North Chesterfield, Virginia 23237
 804-275-4788

Due Date:
 08/29/2019
 (Thursday)
 AE

EB

CHAIN OF CUSTODY FORM

Date: August 24, 2019
 Company Name: CT Lead Paint Solutions, LLC
 Address: 1245 Hebron Ave.
 City, State, Zip: Glastonbury, CT 06033
 Phone: 860-633-3330
 Project Name: Rivera Residence
 Project Address: 48 Convent Ave, Norwich, CT 06360
 Project Number: 19-0254

E-mail to: andrew@ctleadpaint.com
 Dates of Collections: August 22, 2019
 Assessment Tests

Matrix	Method	Instrument	Method Detect Limits	TAT
Lead in Dust	EPA SW 846 7420	Flame Atomic Absorption	3.0 µg/wipe	three day

Lead Wipes Used ASTM E 1792 **Lead in Dust**

1-12
 21
 20

Sample #	Area size/ Sq. inch	Location Sample and Substrate	Room or area
DW-10	144.00	Floor, A side, near door, wood	Room 3, 1 st Floor
DW-11	96.00	Window sill, D side, wood	Room 3, 1 st Floor
DW-12	65.00	Window well, D side, vinyl	Room 3, 1 st Floor
DW-13	144.00	Floor, D side, wood	Room 4, 1 st Floor
DW-14	85.00	Window sill, D side, wood	Room 4, 1 st Floor
DW-15	144.00	Floor, C side, vinyl	Kitchen, 1 st Floor
DW-16	144.00	Floor, A side, near TV, vinyl	Room 1, 2 nd Floor
DW-17	44.00	Window sill, A side, left, wood	Room 1, 2 nd Floor
DW-18	101.50	Window well, B side, left, vinyl	Room 2, 2 nd Floor
DW-19	144.00	Floor, D side, wood	Room 5, 2 nd Floor
DW-20	144.00	Floor, D side, near Attic dr, wood	Front Stairs, 2 nd Fl
DW-21	144.00	Floor, C side, wood	Rear Stairs, 2 nd Fl.
Collected	Andrew Miller	Signature <i>Andrew Miller</i>	Date: Aug. 22, 2019
Mailed	Andrew Miller	Signature <i>Andrew Miller</i>	Date: Aug. 24, 2019
Received	<i>E. Corleva</i>	<i>[Signature]</i>	Date: <i>8-24-19</i>

@ 1234pm



Environmental Hazards Services, L.L.C.
 7469 Whitepine Rd
 Richmond, VA 23237
 Telephone: 800.347.4010

Lead in Soil Analysis Report

Report Number: 19-09-00981

Client: CT Lead Paint Solutions Inc.
 1245 Hebron Avenue
 Glastonbury, CT 06033

Received Date: 09/09/2019
Analyzed Date: 09/10/2019
Reported Date: 09/10/2019

Project/Test Address: 19-0254; 48 Convent Ave.; Norwich, CT 06360
Collection Date: 08/27/2019

Client Number:
 07-1566

Laboratory Results

Fax Number:
 860-633-3330

Lab Sample Number	Client Sample Number	Collection Location	Concentration ppm (ug/g)	Narrative ID
19-09-00981-001	SOIL-1	BARE SOIL 1 FT FROM HOUSE D SIDE	540	
19-09-00981-002	SOIL-2	BARE SOIL 1 FT FROM HOUSE AND REAR YARD C SIDE	310	

Environmental Hazards Services, L.L.C

Client Number: 07-1566

Report Number: 19-09-00981

Project/Test Address: 19-0254; 48 Convent Ave.; Norwich, CT 06360

Lab Sample Number	Client Sample Number	Collection Location	Concentration ppm (ug/g)	Narrative ID
-------------------	----------------------	---------------------	--------------------------	--------------

Method: ASTM E-1979-17/EPA SW846 7000B

Accreditation #: CT PH-0234

Reviewed By Authorized Signatory:



Tiffany Stone

QA/QC Clerk

The Federal lead guidelines for lead in soil is 400 ug/g (ppm) in play areas, and 1200 ug/g (ppm) in bare soil in the remainder of the yard. The Reporting Limit (RL) is 10.0 ug Total Pb. All internal quality control requirements associated with this batch were met, unless otherwise noted.

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Unless otherwise noted, samples are reported without a dry weight correction. Sample location, description, area, volume, etc., was provided by the client. If the report does not contain the result for a field blank, it is due to the fact that the client did not include a field blank with their samples. EHS sample results do not reflect blank correction. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C.

ELLAP Accreditation through AIHA-LAP, LLC (100420), NY ELAP #11714.

LEGEND	ug = microgram	ppm = parts per million
	ug/g = micrograms per gram	

Environmental Hazards Services, LLC
 7469 White Pine Road
 North Chesterfield, Virginia 23237
 804-275-4788

19-09-00981



Due Date:
 09/10/2019
 (Tuesday)
 AE

CHAIN OF CUSTODY FORM

Date: September 07, 2019
 Company Name: CT Lead Paint Solutions, LLC
 Address: 1245 Hebron Ave.
 City, State, Zip: Glastonbury, CT 06033 E-mail to: andrew@ctleadpaint.com
 Phone: 860-633-3330
 Project Name: Rivera Residence Dates of Collections: August 27, 2019
 Assessment Tests
 Project Address: 48 Convent Ave, Norwich, CT 06360
 Project Number 19-0254

Matrix	Method	Instrument	mdls	TAT
Lead in Soil	EPA846-7420	Flame Atomic Absorption	20mg/kg 20 ppm	one day

Lead in Soil

Sample #	Exterior Area	Location Sample	Comments	Lab notes
Soil - 1	Collected from bare soil with-in 1 foot of the house	D side	4 composite samples	
Soil - 2	Collected from bare soil with-in 1 foot of the house and rear yard	C side and rear yard	8 composite samples	
		Lab, please mix sample		
Collected	Andrew Miller	Sign. <i>Andrew Miller</i>	Date: Aug. 27, 2019	
Mailed by	Andrew Miller	Sign. <i>Andrew Miller</i>	Date: Sept. 07, 2019	
Received by	<i>TStone</i>	Sign. <i>TStone</i>	Date: 9/9/19	

12:52pm

**Lead Abatement Plan
for
48 Convent Ave
Norwich, CT 06360**

A. Background Information

This abatement plan was submitted on September 24, 2019.

Address of property to be abated;
48 Convent Ave
Norwich, CT 06360

This abatement plan was prepared by
Planner/Project Designer; Andrew Miller
Certificate #002129
1245 Hebron Ave
Glastonbury, CT 06033
860-633-3330

The property was inspected by;
Connecticut Lead Paint Solutions, LLC
1245 Hebron Ave
Glastonbury, CT 06033
860-633-3330
Lead Consultant Contractor License; #2124
Lead Inspector/Risk Assessor; Andrew Miller
Lead Inspector/Risk Assessor #002179
Dates of inspection was August 22 and 27, 2019.

B. Owner/Owner Agent Information

The owner and agent of the house is;
Melissa Rivera
48 Convent Ave
Norwich, CT 06360
860-961-3495

C. Resident Information

At the time of the inspection at least two children resided in the 1st floor apartment.

D. Abatement Contractor Information

The lead abatement contractor has not been selected yet. The Uncas Health Department will be notified when the selection has been made and before any work is started.

E. Repairs Prior to Abatement

No repair appear to be required prior to starting the abatement work.

F. Abatement Techniques to be Used

- 1. Component Replacement.** Replace positive wood window sashes with Wood Replacement Windows (WRW) and some existing doors with new pre-hung door units. The replacement windows will cover all impact and friction surfaces on the window wells and all parting beads will be removed.
- 2. Liquid Encapsulation.** Remove all defective paint, feather out all edges, wet sand and wash surface, on both the interior and exterior. Prime as required and paint with an approved encapsulating paint. The encapsulating paint must contain Bitrex.
- 3. Ridge Encapsulation.** Cover some exterior trim with aluminum. Cover some interior plaster ceiling with drywall.

Please Note; As an alternative method to removing paint from interior door jambs, the door stops may be removed and luan added to cover the complete door jamb. Add new door stops and adjust doors, as needed. This process is not to be used on any exterior entrance door unit.

The abatement contractor and/or owner must have read and follow Encapsulating Guide book when using encapsulating paints. Follow procedures for testing existing surface to ensure proper adhesion. Document all testing results. Consult with Lead Planner Project Designer if any surfaces fails test and therefore is not acceptable for encapsulation. Follow all procedure on proper preparation of surfaces that are to be encapsulated. The Lead Planner Project Designer will require the abatement contractor, if any, to provide a written and signed statement that they have read and followed the Liquid Encapsulating Guide. The guide is available online at; http://www.ct.gov/dph/lib/dph/environmental_health/lead/pdf/ec_guide.pdf.

The complete list of all areas and components to be abated, along with the methods to be used, is detailed on the attached abatement sheets.

G. The Dates of the Abatement Project

The estimated starting date of the abatement work is currently unknown. The Uncas Health Department will be notified 5 days prior to starting any abatement work.

H. Notification To The Connecticut Historical Commission

This house was built in 1921. The City of Norwich will notify the Connecticut Historical Commission, if required to do so

I. Occupant Notification Procedure

The owner or contractor will provide all tenants with the EPA guide titled; Renovate Right: Important Lead Hazard Information for Families, Child Care Providers, and Schools.

Warning signs will be posted on all entrance doors of the building while abatement work is performed. These signs will be in English only.

J. Containment of the Work Area

Interior

Six mil plastic will cover the complete floor in the work areas and be taped completely to the baseboard prior to starting any work. After abatement work is complete, roll plastic inward so all paint chips and debris are sealed in the plastic, tape closed and place in 6 mil plastic bag and tape shut. HEPA vacuum work area after plastic is removed. Cover all heating duct vents, as needed.

Exterior

Containment is required to collect all paint chips and dust that disturbed during the exterior abatement. All windows and entrance doors must be covered with plastic, until all surfaces on that side are prepared for painting and primed.

After the surface preparations and abatement are complete, un-tape the plastic from the adjacent surfaces and roll inward or collapse so all paint chips and debris are sealed in the plastic. Tape the rolled plastic closed with duct tape and dispose of in six mil plastic bag. Hepa vacuum any paint chips on the ground that were not captured by the plastic.

No person will enter or remain in a work area at any time during this project except the owner, or his agent, certified workers, enforcement officials, their designees, or the lead project/planner. People other than those listed above may enter the work area only after the area has been clean-up and vacuumed with a HEPA vacuum.

K. Cleaning After Lead-Based Paint Abatement

Clean-up of the interior areas after the abatement work is completed will be as follows; remove the polyethylene plastic by un-taping from baseboards and rolling plastic inward, overlapping itself, wrap with tape after rolling up. Spray plastic surfaces with water bottle if plastic contains paint chips or loose debris. This will reduce dust movement. Put plastic into 6 mil plastic bags and tape shut.

HEPA vacuum all uncovered floor, window sills, window wells and all horizontal surfaces in work area. Wash all vacuumed surfaces with TSP or equivalent cleaner and rinsed with clean water. Avoid contaminating the washing solution by only using a clean paper towel or rag to wash surfaces. Discard all towels or rags after using just once. Hold towel/rag in a way that hands are

never in contact with TSP solution. Carpeted floor will not be washed but HEPA vacuumed twice. HEPA vacuum wood or hard surface floors again after floors are dry.

Then after waiting 4 hours after active abatement has ceased the final clean-up can begin. For final clean-up, the abatement area is HEPA vacuumed, TSP washed and HEPA vacuumed again.

After 4 hours have passed after the clean-up of the abatement work, the areas will be ready for clearance testing.

L. **Waste Disposal**

All the waste plastic, overhead door and paint chips that have been removed will be wrapped in clean plastic and taped-up prior to being removed from the containment area. Disposal of all lead abatement waste will be in compliance with current all local and state regulations. If the owner elects to dispose of the debris herself, and the total amount of debris is 10 cubic yard or less, she will have an exemption from the waste disposal regulations. If it is anticipated that the amount of debris will be more than 10 cubic yards, consult with the Lead Planner Project Designer prior to any waste disposal.

M. **Worker Protection**

The owner, and any authorized visitor, without exception, will wear required protective clothing before entering any work area where active abatement is being performed but not yet completed and cleaned.

The worker protection will be as follows:

1. Workers will wear a full Tyvek suit (or equivalent).
2. Workers will wear booties when working in the containment area or on the containment plastic.
3. A half face respirator, NIOSH approved respirators, as required by Connecticut laws with an appropriate filter, (for lead dust) will be used when removing any window or door component.

No smoking, eating or drinking is to be done in the containment areas, and; the workers will wash hands at the end of working and before eating or drinking. Hand to Mouth activities are the easiest way for workers to be exposed to lead.

N. **Clearance Testing**

After the abatement work is complete and the areas have been cleaned up, a visual inspection will be performed and dust wipes samples will be collected in all rooms or areas where abatement work was performed. The visual inspection and the dust wipe samples will be done by the Uncas Health Department , Connecticut Lead Paint Solutions, LLC 1245 Hebron Ave, Glastonbury, CT 06033 860-633-3330 or another licensed lead consultant. Three dust wipe samples will be collected in each interior room or area where abatement was performed, one on a floor, one on a window interior sill and one on a window well in each room or area.

The clearance levels must be less than, as follows:

Floors	10ug/ft ² (micrograms per square foot of surface)
Porch Floors	40ug/ft ² (micrograms per square foot of surface)
Window Sills	100ug/ft ² (micrograms per square foot of surface)

Windows Wells 100ug/ft² (micrograms per square foot of surface)

A final inspection will verify that all abatement work, as detailed in the abatement plan, has been completed, and that all of the clearance dust wipe tests results are under state action levels. Verify that all debris and construction materials removed from work areas. The letter of compliance shall then be issued by the Uncas Health Department.

Lead Management Plan

A lead management plan will need to be written, explaining which areas still have lead-based paint, when and how they will be periodically monitored. The lead management plan must be sent to the Uncas Health Department for their approval. The lead management plan will also include all surfaces that have been prepared and painted with an approved encapsulating paint. This will ensure that all current and future owners of this building are aware that even though the existing lead paint is covered and abated according to regulations, there is still lead-based paint under the new encapsulating paint.

The management plan will be written after the abatement is completed, since some changes from this abatement plan may occur, due to field conditions. Any changes, however, must be approved by the Uncas Health Department.

Abatement Sheet for
48 Conent Ave
Norwich, CT 06360

Room or Area	Component, number of components, Substrate	Location	Abatement Method	Comments
Interior, 1st floor				
Room 1,	Ceiling, all, plaster	All	Cover with 3/8 inch drywall. If possible, remove ceiling trim prior to installing new drywall, butt drywall tight to walls, caulk or tape seams. Then re-install ceiling trim. Re-paint ceiling molding as needed. Paint new ceiling with 2 coats of flat latex. Above process will be referred to as Ceiling method #1	
Room 2	Ceiling, all, plaster	All	Cover with 3/8 inch drywall. Ceiling method #1	
Room 3	Ceiling, all, plaster	All	Cover with 3/8 inch drywall. Ceiling method #1	
Room 4	Wall, all, plaster	A side	Repair damaged on wall and prepare all A side wall and encapsulate with an approved paint. Install door bumper on floor or wall to prevent future damaged.	
	Ceiling, all, plaster	All	Cover with 3/8 inch drywall. Ceiling method #1	
Room 5	Ceiling, all, plaster	All	Cover with 3/8 inch drywall. Ceiling method #1	
Room 5 Closet	Window sash, 1, wood	C side	Replace with new vinyl replacement unit.	
Kitchen	Ceiling, all, plaster	All	Cover with 3/8 inch drywall. Ceiling method #1	
Rear Entry	Ceiling, all, plaster	All	Cover with 3/8 inch drywall. Ceiling method #1	
2nd Floor				
Room 3	Wall, all, plaster	C side	Repair damaged on wall and prepare all C side wall and encapsulate with an approved paint. Install door bumper on floor or wall, if damaged s caused by door, to prevent future damaged.	

Abatement sheet for 48 Convent Ave, Norwich, CT 06360

Room or Area	Component, number of components, Substrate	Location	Abatement Method	Comments
2 nd Floor				
Rear Entry	Door Threshold, 1, wood	C side	Remove all paint from threshold. Test with XRF to ensure that the new readings are now below regulatory limits. Paint or varnish 2 coats, per owner. Alt. method , replace with new	
Attic Stairs	Walls, all, plaster	All sides	Cover all walls with ½ inch drywall.	Hepa vacuum all stairs and wash with TSP solution
Room 7 (in attic)	Window sash, 1, wood	C side, right	Replace with new vinyl replacement units.	The left sash is currently VRW
Rear Stairs, 1 st Floor	Door, door jamb and casing 1, wood	A side, 1 st floor	Door treatment, See description at end of plan.	Alt. method ; replace door unit with new metal pre-hung unit. The interior of this door is neg for LBP.
	Door threshold, 1, wood	A side	Remove all paint from threshold. Test with XRF to ensure that the new readings are now below regulatory limits. Paint or varnish 2 coats, per owner. Alt. method , replace with new	
	Door kickplate, 1, wood	A side	Cover with new wood trim	
	Door, door jamb and casing 1, wood	B side	Replace with new pre-hug metal unit.	
	Stair stringers, wall casings, balusters, railing, newel post, all	All sides	Prepare and encapsulate, 2 coats	
	Stair treads and risers, approx. 11 each	All	Cover with vinyl treads and risers	
	Stairs lower wall and wall cap, all	Center, 2 nd floor	Re-screw and or repair, as needed, lower wall, and prepare and encapsulate.	
	Door, door jamb and casing 1, wood	A side, 2 nd floor	Door treatment, See description at end of plan.	Alt. method ; replace door unit with new metal pre-hung unit. The interior of this door is neg for LBP.
	Door threshold, 1, wood	A side, 2 nd floor	Remove all paint from threshold. Test with XRF to ensure that the new readings are now below regulatory limits. Paint or varnish 2 coats, per owner. Alt. method , replace with new	
	Exposed 2x4 studs, all	C side	Prepare and encapsulate, 2 coats	C side only

-AIT 1

AIT 2

AIT 3

AIT 4

Abatement sheet for 48 Convent Ave, Norwich, CT 06360

Room or Area	Component, number of components, Substrate	Location	Abatement Method	Comments
Front Stairs	Door threshold, 1, wood	A side, 1 st floor	Remove all paint from threshold. Test with XRF to ensure that the new readings are now below regulatory limits. Paint or varnish 2 coats, per owner. Alt. method , replace with new	-A14.5
	Walls, 2, plaster	C and D side	Remove any cap on the stringer, if any and install ¼ inch drywall. Paint 2 coats of enamel paint, color to be picked by owner. Re-install cap.	Note; the C side wall is the tall wall in stairwell, now covered with wallpaper.
Front Porch	Door jamb and casing, all, wood	A side	Prepare and encapsulate, 2 coats.	Not an impact surface
	Door threshold, 1, wood	A side	Remove all paint from threshold. Test with XRF to ensure that the new readings are now below regulatory limits. Paint or varnish 2 coats, per owner.	
	Door Kick Plate, 1, wood	A side	Cover with new trim	
	Porch ceiling and upper trim, all, wood	All sides	Prepare and encapsulate, 2 coats.	
	Window blind stops, all exposed wood	C side	Prepare and encapsulate, 2 coats.	
	Window sills, all	All sides	Prepare and encapsulate	
	Porch floor, all, wood	All	Remove all remaining paint, test with XRF to ensure lead levels are now below regulatory limits.	Only one of five tests was positive for LBP. Alt method. Cover with ½ inch PT Plywood
Base. stairs	Door and door jamb, 1, wood	D side	Door treatment	May be replaced, as an option in Rear Stairs
Exterior				
Front Porch	Porch columns, 4, wood	A side	Prepare and encapsulate, 2 coats.	
	Porch upper trim, all, exposed	A side	Prepare and encapsulate	May be covered with aluminum now.
	Porch lattice and trim, all	A, B and D side	Replace with new vinyl lattice and Azak trim	
	Porch inserts, all, approx. 14	All sides	Replace with vinyl replacement units. Add framing as needed.	Alt. method; replace with aluminum storm windows
				A17.7

Abatement sheet for 48 Convent Ave, Norwich, CT 06360

Room or Area	Component, number of components, Substrate	Location	Abatement Method	Comments
Exterior	Cellar window frames, 6,	B and D side	Replace any rotten wood on frames with PT, and cover with aluminum,	Be sure window sills are at least 3" above grade
	Cellar window sashes, 6	B and D side	Replace with vinyl window	
	Foundation wall, all brick	D side	Prepare and encapsulate	
	Exposed window casings, 3 approx. or all, wood	A and C sides	Remove storm windows, if any and cover all exposed exterior wood, after the remaining wood windows are replaced	May only be on the C side, but check A side attic exterior window casings
	Porch lattice and trim, all	D side	Replace with new vinyl lattice and cover frame/post with aluminum	at rear deck, D side
Garage Ext.	Exterior soffit, all, wood/plywood	All sides	Remove and replace any damaged or rotten wood and cover with aluminum	Note; all exterior shingles are neg. for LBP.
	Exterior fascia, all painted	All sides	Remove and replace all and cover with aluminum	Re-install gutters
	Window sash, 2, wood	B and D	Replace wood windows with vinyl replacement units.	
	Window casings sills, 2, wood	B and D	Cover with aluminum	
	Window units, 2, wood	C side	Remove existing and completely replace with new construction units. Install Azak trim as needed.	Repair shingles as needed, in course of window installation.
Yard	Yard between house and fence	D side	Hepa vacuum any visible paint chips and plant grass	

Door Treatment; Remove all paint from all **friction and impact** surfaces on the door. Remove all paint from at least 2 inches from all edges on the face of the door which impacts with the door jamb (including the upper style of the door) and feather paint edges. Remove all paint from both side edges of the door (hinge and strike sides). Remove all paint from impact surfaces of door jamb. Test all stripped surfaces with XRF instrument to ensure the surfaces are below regulatory limits. Prepare other surfaces, door casings and unstripped door surfaces and encapsulate with 2 coats of an approved encapsulate. This process is called **Door Treatment**. (if jambs are impact surfaces they must be stripped, if not, they can be encapsulated)

Note 2, when replacing the exiting wood windows, remove all window weight and pully hardware. Open weight pocket, remove any debris in pocket and fully insulate the weight pocket with appropriate fiberglass insulation.