

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

**CITY OF NORWICH
PROPERTY REHABILITATION &
LEAD PAINT HAZARD CONTROL
PROGRAMS
Project LP1649-RP1425**

**5 Stetson Street
Norwich, CT. 06360**

PROJECT SPECIFICATION

Bid 1-Lead Paint Hazard Control

**CITY OF NORWICH
INVITATION TO BID PROPERTY REHABILITATION & LEAD PAINT
HAZARD CONTROL PROGRAMS**

**Bid for: LP1649-RP1425
5 Stetson Street
Norwich CT 06360**

Bid 1- Lead Paint Hazard Control

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

5 Stetson Street

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, CT. Office hours are from 8:30 AM to 4:30 PM, Monday through Friday. **A pre-bid conference will be held on Friday October 18, 2019 at 9:00 AM at the project location. 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, CT until 4:00 PM, on Friday, October 25, 2019, 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:

**5 Stetson Street
Norwich. CT 06360**

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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 **10-18-19 At 9:00 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: #LP1649-RP1425 5 Stetson Street
-On the outside front of the envelope-

4. **The sealed bid proposals will be received until 4:00 PM on 10-25-19,** 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: LP1649-RP1425
ADDRESS: 5 Stetson Street
Norwich, Connecticut, 06360

OWNERS NAME: Charity M. Robbins
OWNERS ADDRESS: 5 Stetson
Norwich CT. 06360

OWNERS PHONE NO: 860-995-6825

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

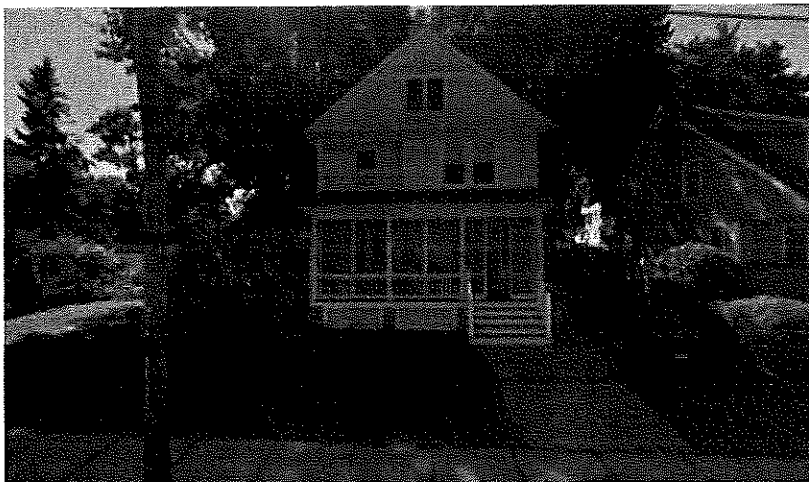
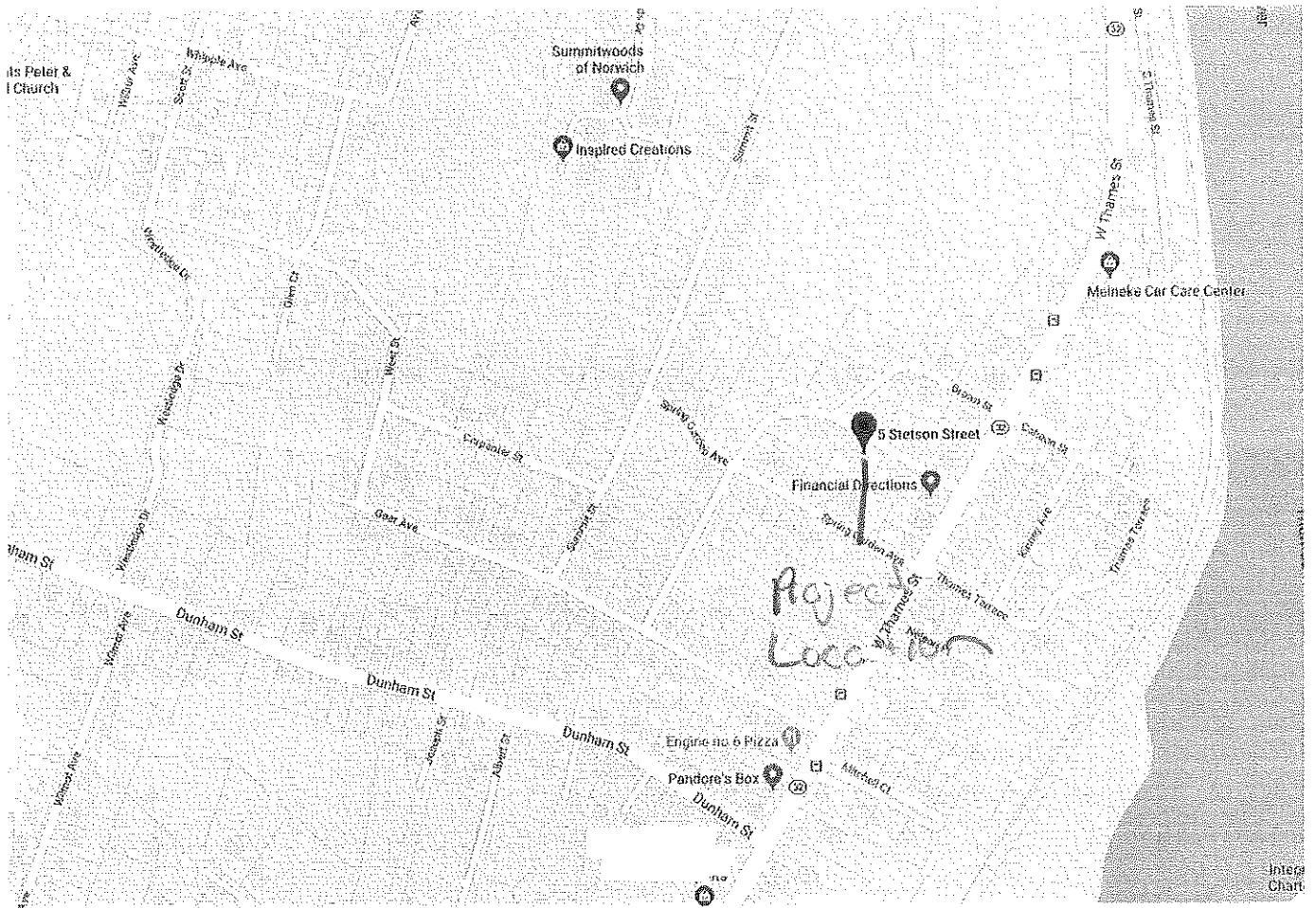
Contractor:

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.

5 Stetson St



5 Stetson St

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 **25, 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: _____

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)**

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;
5 Stetson St
Norwich, CT 06360

Owners; Charity Robbins

Please Note; some pages in this report have the street name incorrect. The correct address is listed above.

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 27 and September 03, 2019.

The property inspected is a single-family house built in or about 1910. All interior rooms or areas were fully inspected including a partially finished room in the Attic (room 7) and the Basement Stairs. The unfinished basement was partially inspected. The house is in very good condition.

Some of the interior surfaces tested in the house were positive for lead-based paint (LBP). Disregard the following positive walls, readings #88 – 91 the walls in Room #3, and all positive walls in Kitchen, readings #118-125 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 the house have been replaced with vinyl replacement units. The remaining wood windows are in Room 7 and the unfinished Attic.

The exterior of the house is completely covered with wood siding, 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 and were also defective.

The detached garage was tested on the exterior only. Some surfaces tested were positive for LBP, but all clapboard siding was negative for LBP

Lead in Dust and Soil Assessment

Seven dust wipe samples were collected for analysis of lead concentrations by an accredited laboratory. Five 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-3 was collected from bare soil with-in one foot of the perimeter of the foundation on the B side of the house; paint chips were also observed on the ground on this side of the house. Soil-4 was collect on the C side, along the deck. The tests results were 940ppm and 300ppm lead respectively. The A side of the house had no bare soil and the D 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 B 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 21, 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			1.53mg/cm ²	Positive	1.60 ± 0.20
2				Calibration- Surface			1.04mg/cm ²	Positive	1.10 ± 0.10
3				Calibration- Surface			1.04mg/cm ²	Positive	1.10 ± 0.10
4				Calibration- Surface			1.04mg/cm ²	Positive	1.00 ± 0.10
5				Calibration- Surface			0.01mg/cm ²	Negative	0.00 ± 0.02
6	1st	Foyer	A	Door	Wood	Varnish	Intact	Negative	0.04 ± 0.06
7	1st	Foyer	A	Door Casing	Wood	Varnish	Intact	Negative	0.15 ± 0.14
8	1st	Foyer	A	Door Jamb	Wood	Varnish	Intact	Negative	0.04 ± 0.06
9	1st	Foyer	A	Door Side Life	Wood	Varnish	Intact	Negative	0.11 ± 0.10
10	1st	Foyer	B	Opening Jamb	Wood	Varnish	Intact	Negative	0.09 ± 0.09
11	1st	Foyer	C	Door Casing	Wood	Varnish	Intact	Negative	0.02 ± 0.10
12	1st	Foyer	C	Door Jamb	Wood	Varnish	Intact	Negative	0.01 ± 0.04
13	1st	Foyer	C	Door Threshold	Wood	Varnish	Intact	Negative	0.00 ± 0.02
14	1st	Foyer	D	Baseboard	Wood	Varnish	Intact	Negative	0.08 ± 0.08
15	1st	Foyer	B	Radiator	Metal	Bronze	Intact	Negative	0.04 ± 0.11
16	1st	Foyer	A	Wall	Plaster	Off-White	Intact	Negative	0.15 ± 0.10
17	1st	Foyer	B	Wall	Plaster	Off-White	Intact	Negative	0.16 ± 0.12
18	1st	Foyer	C	Wall	Plaster	Off-White	Intact	Negative	0.25 ± 0.12
19	1st	Foyer	D	Wall	Plaster	Off-White	Intact	Null	0.90 ± 0.40
20	1st	Foyer	D	Wall	Plaster	Off-White	Intact	Null	0.80 ± 0.20
21	1st	Foyer	D	Wall	Plaster	Off-White	Intact	Negative	0.24 ± 0.15
22	1st	Foyer	B	Ceiling	Plaster	White	Intact	Negative	0.00 ± 0.02
23	1st	Foyer	B	Ceiling Trim	Wood	Varnish	Intact	Negative	0.06 ± 0.07
24	1st	Foyer	C	Floor	Wood	Varnish	Intact	Negative	0.01 ± 0.06
25	1st	Room 1	A	Window Sill	Wood	White	Intact	Positive	9.80 ± 4.40
26	1st	Room 1	A	Window Casing	Wood	White	Intact	Positive	8.60 ± 4.00
27	1st	Room 1	A	Window Sill	Wood	White	Intact	Positive	9.90 ± 4.40
28	1st	Room 1	A	Window Casing	Wood	White	Intact	Positive	9.00 ± 1.80
29	1st	Room 1	B	Window Sill	Wood	White	Defective	Positive	10.30 ± 5.60
30	1st	Room 1	B	Window Casing	Wood	White	Defective	Positive	8.20 ± 5.00
31	1st	Room 1	C	Door Lft	Wood	Varnish	Intact	Negative	0.04 ± 0.06
32	1st	Room 1	C	Door Rht	Wood	Varnish	Intact	Negative	0.04 ± 0.06
33	1st	Room 1	C	Door Jamb	Wood	White	Intact	Positive	10.70 ± 4.60
34	1st	Room 1	C	Door Casing	Wood	White	Intact	Positive	9.60 ± 4.30
35	1st	Room 1	D	Opening Jamb	Wood	White	Intact	Positive	8.60 ± 4.20
36	1st	Room 1	B	Baseboard	Wood	White	Intact	Positive	6.30 ± 4.60
37	1st	Room 1	C	Baseboard	Wood	White	Intact	Positive	9.70 ± 5.60
38	1st	Room 1	A	Radiator	Metal	Bronze	Intact	Negative	0.02 ± 0.07
39	1st	Room 1	A	Wall	Plaster	Off-White	Intact	Negative	0.00 ± 0.02
40	1st	Room 1	B	Wall	Plaster	Off-White	Intact	Negative	0.00 ± 0.02
41	1st	Room 1	C	Wall	Plaster	Off-White	Intact	Negative	0.00 ± 0.02
42	1st	Room 1	D	Wall	Plaster	Off-White	Intact	Negative	0.00 ± 0.02
43	1st	Room 1	A	Ceiling	Plaster	White	Intact	Negative	0.00 ± 0.02
44	1st	Room 1	A	Ceiling Trim	Wood	White	Intact	Positive	8.20 ± 3.80
45	1st	Room 1	D	Floor	Wood	Varnish	Intact	Negative	0.01 ± 0.03
46	1st	Room 1	B	Window Sill Lft	Wood	Varnish	Far	Negative	0.13 ± 0.10
47	1st	Room 1	B	Window Casing	Wood	Varnish	Intact	Negative	0.06 ± 0.12
48	1st	Room 1	B	Window Sill Rht	Wood	Varnish	Intact	Positive	2.80 ± 1.50
49	1st	Room 1	B	Window Sill Rht	Wood	Varnish	Intact	Negative	0.22 ± 0.15
50	1st	Room 1	B	Window Sill Rht	Wood	Varnish	Intact	Positive	2.90 ± 1.60
51	1st	Room 1	B	Window Casing	Wood	Varnish	Intact	Negative	0.06 ± 0.10
52	1st	Room 1	C	Window Sill	Wood	Varnish	Far	Negative	0.23 ± 0.04

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
53	1st	Room 1	C	Window Casing	Wood	Varnish	Intact	Negative	0.05 ± 0.07
54	1st	Room 2	D	Opening Jamb	Wood	Varnish	Intact	Negative	0.05 ± 0.07
55	1st	Room 2	A	Door Lft	Wood	Varnish	Intact	Negative	0.05 ± 0.10
56	1st	Room 2	A	Door Casing	Wood	Varnish	Intact	Negative	0.09 ± 0.11
57	1st	Room 2	C	Door	Wood	Varnish	Intact	Negative	0.09 ± 0.09
58	1st	Room 2	C	Door Jamb	Wood	Varnish	Intact	Negative	0.04 ± 0.07
59	1st	Room 2	C	Door Jamb	Wood	Varnish	Intact	Negative	0.04 ± 0.08
60	1st	Room 2	C	Door Threshold	Wood	Varnish	Intact	Negative	0.02 ± 0.08
61	1st	Room 2	D	Baseboard	Wood	Varnish	Intact	Negative	0.06 ± 0.07
62	1st	Room 2	C	Radiator	Plaster	Gold	Intact	Negative	0.10 ± 0.22
63	1st	Room 2	A	Plate Rail	Wood	White	Intact	Negative	0.09 ± 0.12
64	1st	Room 2	D	Plate Rail	Wood	Varnish	Intact	Negative	0.08 ± 0.10
65	1st	Room 2	A	Wall - Lower	Plaster	Blue	Intact	Negative	0.00 ± 0.02
66	1st	Room 2	B	Wall - Lower	Plaster	Blue	Intact	Negative	0.00 ± 0.02
67	1st	Room 2	C	Wall - Lower	Plaster	Blue	Intact	Negative	0.00 ± 0.02
68	1st	Room 2	D	Wall - Lower	Plaster	Blue	Intact	Negative	0.00 ± 0.02
69	1st	Room 2	A	Wall - Upper	Plaster	Blue	Intact	Negative	0.00 ± 0.02
70	1st	Room 2	B	Wall - Upper	Plaster	Blue	Intact	Negative	0.00 ± 0.02
71	1st	Room 2	C	Wall - Upper	Plaster	Blue	Intact	Negative	0.00 ± 0.02
72	1st	Room 2	D	Wall - Upper	Plaster	Blue	Intact	Negative	0.00 ± 0.02
73	1st	Room 2	D	Ceiling	Plaster	White	Intact	Negative	0.00 ± 0.02
74	1st	Room 2	D	Ceiling Trim	Wood	Varnish	Intact	Negative	0.08 ± 0.04
75	1st	Room 2	C	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.02
76	1st	Room 3	C	Door	Metal	White	Intact	Negative	0.00 ± 0.02
77	1st	Room 3	C	Door Casing	Wood	White	Intact	Negative	0.00 ± 0.02
78	1st	Room 3	C	Door Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
79	1st	Room 3	A	Door	Wood	Tan	Intact	Negative	0.06 ± 0.07
80	1st	Room 3	A	Door Jamb	Wood	White	Intact	Negative	0.07 ± 0.14
82	1st	Room 3	A	Door Casing	Wood	White	Intact	Negative	0.03 ± 0.09
83	1st	Room 3	A	Cabinet Door Lft	Wood	Varnish	Intact	Negative	0.00 ± 0.02
84	1st	Room 3	A	Cabinet Body	Wood	Varnish	Intact	Negative	0.00 ± 0.02
85	1st	Room 3	A	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
86	1st	Room 3	A	Wall	Drywall	Blue	Intact	Negative	0.00 ± 0.02
87	1st	Room 3	A	Wall	Drywall	Blue	Intact	Negative	0.00 ± 0.02
88	1st	Room 3	B	Wall	Drywall	Blue	Intact	Positive	3.10 ± 1.20
89	1st	Room 3	B	Wall	Drywall	Blue	Intact	Positive	3.40 ± 1.20
90	1st	Room 3	C	Wall	Drywall	Blue	Intact	Positive	2.30 ± 1.00
91	1st	Room 3	D	Wall	Drywall	Blue	Intact	Positive	2.70 ± 1.00
92	1st	Room 3	C	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
93	1st	Kitchen	D	Window Sill Lft	Wood	White	Intact	Negative	0.02 ± 0.07
94	1st	Kitchen	D	Window Casing	Wood	White	Intact	Negative	0.23 ± 0.56
95	1st	Kitchen	D	Window Sill Rht	Wood	White	Intact	Negative	0.11 ± 0.30
96	1st	Kitchen	D	Window Casing	Wood	White	Intact	Negative	0.16 ± 0.30
97	1st	Kitchen	C	Door	Wood	White	Intact	Negative	0.07 ± 0.12
98	1st	Kitchen	C	Door Jamb	Wood	White	Intact	Negative	0.04 ± 0.12
99	1st	Kitchen	C	Door Casing	Wood	White	Intact	Negative	0.18 ± 0.44
100	1st	Kitchen	A	Door	Wood	White	Intact	Negative	0.18 ± 0.42
101	1st	Kitchen	A	Door Jamb	Wood	Beige	Poor	Negative	0.05 ± 0.16
102	1st	Kitchen	A	Door Casing	Wood	White	Intact	Negative	0.14 ± 0.41
103	1st	Kitchen	D	Closet Door	Wood	White	Intact	Negative	0.04 ± 0.07
104	1st	Kitchen	D	Closet Jamb	Wood	Bone	Intact	Negative	0.40 ± 0.50
105	1st	Kitchen	D	Closet Casing	Wood	White	Intact	Negative	0.06 ± 0.12

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
106	1st	Kitchen	D	Closet Threshold	Wood	Varnish	Intact	Negative	0.00 ± 0.02
107	1st	Kitchen	D	Closet Shelf	Wood	White	Intact	Negative	0.06 ± 0.20
108	1st	Kitchen	D	Closet Shelf Lwr	Wood	White	Intact	Negative	0.00 ± 0.02
109	1st	Kitchen	D	Closet Cleat	Wood	White	Intact	Negative	0.14 ± 0.12
110	1st	Kitchen	D	Closet Ceiling	Wood	White	Intact	Negative	0.27 ± 0.23
111	1st	Kitchen	D	Closet Wall	Plaster	White	Damaged	Negative	0.16 ± 0.11
112	1st	Kitchen	D	Closet Floor	Wood	Beige	Intact	Negative	0.50 ± 0.30
113	1st	Kitchen	B	Baseboard	Wood	White	Intact	Negative	0.06 ± 0.19
114	1st	Kitchen	B	Chair Rail	Wood	White	Intact	Negative	0.19 ± 0.17
115	1st	Kitchen	D	Chair Rail	Wood	White	Intact	Negative	0.07 ± 0.12
116	1st	Kitchen	D	Radiator	Metal	White	Intact	Negative	0.02 ± 0.07
117	1st	Kitchen	A	Wall - Lower	Plaster	Blue	Intact	Negative	0.00 ± 0.02
118	1st	Kitchen	B	Wall - Lower	Plaster	Blue	Intact	Positive	5.30 ± 3.10
119	1st	Kitchen	C	Wall - Lower	Plaster	Blue	Intact	Positive	5.90 ± 3.50
120	1st	Kitchen	D	Wall - Lower	Drywall	Blue	Intact	Positive	6.20 ± 3.60
121	1st	Kitchen	A	Wall - Lower	Drywall	Blue	Intact	Positive	3.30 ± 1.20
122	1st	Kitchen	A	Wall - Upper	Drywall	Blue	Intact	Negative	0.00 ± 0.02
123	1st	Kitchen	C	Wall - Upper	Drywall	Blue	Intact	Positive	5.00 ± 3.30
124	1st	Kitchen	C	Wall - Upper	Drywall	Blue	Intact	Positive	4.50 ± 0.90
125	1st	Kitchen	D	Wall - Upper	Drywall	Blue	Intact	Positive	5.90 ± 3.40
126	1st	Kitchen	B	Ceiling	Drywall	White	Poor	Negative	0.00 ± 0.02
127	1st	Kitchen	B	Cabinet Door Lwr	Wood	Varnish	Intact	Negative	0.00 ± 0.02
128	1st	Kitchen	B	Cabinet Frame	Wood	Varnish	Intact	Negative	0.01 ± 0.06
129	1st	Bath 1	C	Window Sill	Wood	White	Intact	Negative	0.10 ± 0.20
130	1st	Bath 1	C	Window Sill	Wood	White	Intact	Negative	0.11 ± 0.16
131	1st	Bath 1	C	Window Casing	Wood	White	Intact	Negative	0.02 ± 0.05
132	1st	Bath 1	A	Door	Wood	White	Intact	Positive	15.90 ± 7.50
133	1st	Bath 1	A	Door Jamb	Wood	White	Intact	Positive	20.50 ± 8.90
134	1st	Bath 1	A	Door Casing	Wood	White	Intact	Positive	19.20 ± 8.40
135	1st	Bath 1	A	Door Threshold	Wood	Varnish	Intact	Negative	0.02 ± 0.08
136	1st	Bath 1	C	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
137	1st	Bath 1	D	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.03
138	1st	Bath 1	C	Radiator	Metal	White	Intact	Negative	0.04 ± 0.14
139	1st	Bath 1	D	Corner Trim	Wood	White	Intact	Negative	0.00 ± 0.02
140	1st	Bath 1	A	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
141	1st	Bath 1	B	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
142	1st	Bath 1	C	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
143	1st	Bath 1	D	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
144	1st	Bath 1	A	Box	Plywood	White	Intact	Negative	0.12 ± 0.56
145	1st	Bath 1	A	Ceiling	Wood	White	Intact	Negative	0.06 ± 0.08
146	1st	Bath 1	D	Ceiling Trim	Wood	White	Intact	Negative	0.01 ± 0.03
147	1st	Stairwell	D	Stair Stringer	Wood	Varnish	Intact	Negative	0.07 ± 0.08
148	1st	Stairwell	C	Stair Riser	Wood	Varnish	Intact	Negative	0.19 ± 0.32
149	1st	Stairwell	B	Stair Tread	Wood	Varnish	Intact	Negative	0.01 ± 0.03
150	1st	Stairwell	B	Stair Baseboard	Wood	Varnish	Intact	Negative	0.26 ± 0.38
151	1st	Stairwell	B	Stair Newel Post	Wood	Varnish	Intact	Negative	0.10 ± 0.11
153	1st	Stairwell	D	Wall	Plaster	Off-White	Intact	Negative	0.19 ± 0.14
154	2nd	Stairwell	D	Window Sill	Wood	Varnish	Intact	Negative	0.03 ± 0.05
155	2nd	Stairwell	D	Window Casing	Wood	Varnish	Intact	Negative	0.11 ± 0.14
156	2nd	Stairwell	C	Wall	Plaster	Off-White	Intact	Null	0.13 ± 0.17
157	2nd	Stairwell	A	Door	Wood	Varnish	Intact	Negative	0.04 ± 0.06
158	2nd	Stairwell	A	Door Jamb	Wood	Varnish	Intact	Negative	0.07 ± 0.09

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
159	2nd	Stairwell	B	Door Lft	Wood	Varnish	Intact	Negative	0.04 ± 0.10
160	2nd	Stairwell	B	Door Casing	Wood	Varnish	Intact	Negative	0.07 ± 0.13
161	2nd	Stairwell	B	Door Threshold	Wood	Varnish	Intact	Negative	0.01 ± 0.03
162	2nd	Stairwell	B	Door Rht	Wood	Varnish	Intact	Negative	0.05 ± 0.07
163	2nd	Stairwell	B	Door Casing	Wood	Varnish	Intact	Negative	0.05 ± 0.07
164	2nd	Stairwell	C	Door	Wood	Varnish	Intact	Negative	0.03 ± 0.04
165	2nd	Stairwell	C	Door Casing	Wood	Varnish	Intact	Negative	0.06 ± 0.09
166	2nd	Stairwell	C	Door Threshold	Wood	Varnish	Intact	Negative	0.00 ± 0.02
167	2nd	Stairwell	D	Door (to Attic)	Wood	Varnish	Intact	Negative	0.06 ± 0.08
168	2nd	Stairwell	D	Door Jamb	Wood	Varnish	Intact	Negative	0.03 ± 0.05
169	2nd	Stairwell	C	Baseboard	Wood	Varnish	Intact	Negative	0.05 ± 0.07
170	2nd	Stairwell	B	Wall	Plaster	Off-White	Intact	Negative	0.03 ± 0.07
171	2nd	Stairwell	B	Wall	Plaster	Off-White	Intact	Negative	0.40 ± 0.60
172	2nd	Stairwell	C	Wall	Plaster	Off-White	Intact	Negative	0.11 ± 0.15
173	2nd	Stairwell	A	Ceiling	Plaster	White	Intact	Negative	0.06 ± 0.07
174	2nd	Stairwell	A	Ceiling Trim	Wood	Varnish	Intact	Negative	0.12 ± 0.11
175	2nd	Stairwell	A	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.02
180				Calibration- Surface			1.53mg/cm ²	Positive	1.50 ± 0.20
181				Calibration- Surface			1.04mg/cm ²	Positive	1.00 ± 0.10
182				Calibration- Surface			1.04mg/cm ²	Positive	1.10 ± 0.10
183				Calibration- Surface			1.04mg/cm ²	Positive	1.10 ± 0.10
184				Calibration- Buried		08/27/19	0.01mg/cm ²	Negative	0.00 ± 0.02
185				Calibration- Surface		09/03/19	1.04mg/cm ²	Positive	1.50 ± 0.20
186				Calibration- Surface			1.04mg/cm ²	Positive	1.00 ± 0.10
187				Calibration- Surface			1.04mg/cm ²	Positive	1.00 ± 0.10
188				Calibration- Surface			1.04mg/cm ²	Positive	1.00 ± 0.10
189				Calibration- Surface			0.01mg/cm ²	Negative	0.00 ± 0.02
190	2nd	Room 4	A	Window Sill	Wood	White	Poor	Negative	0.12 ± 0.19
191	2nd	Room 4	A	Window Sill	Wood	White	Poor	Negative	0.09 ± 0.14
192	2nd	Room 4	A	Window Casing	Wood	White	Defective	Negative	0.19 ± 0.29
193	2nd	Room 4	A	Window Casing	Wood	White	Defective	Negative	0.07 ± 0.10
194	2nd	Room 4	D	Window Sill	Wood	White	Intact	Negative	0.03 ± 0.08
195	2nd	Room 4	D	Window Casing	Wood	White	Intact	Negative	0.12 ± 0.15
196	2nd	Room 4	C	Door	Wood	White	Intact	Negative	0.10 ± 0.16
197	2nd	Room 4	C	Door Jamb	Wood	White	Intact	Negative	0.04 ± 0.07
198	2nd	Room 4	C	Door Casing	Wood	White	Intact	Negative	0.05 ± 0.09
199	2nd	Room 4	C	Closet Door	Wood	White	Intact	Negative	0.09 ± 0.13
200	2nd	Room 4	C	Closet Jamb	Wood	White	Defective	Negative	0.04 ± 0.06
201	2nd	Room 4	C	Closet Casing	Wood	White	Intact	Negative	0.10 ± 0.19
202	2nd	Room 4	C	Closet Threshold	Wood	Varnish	Intact	Negative	0.01 ± 0.03
203	2nd	Room 4	C	Closet Floor	Wood	Varnish	Intact	Negative	0.06 ± 0.09
204	2nd	Room 4	C	Closet Baseboard	Wood	Varnish	Intact	Negative	0.07 ± 0.10
205	2nd	Room 4	C	Closet Shelf	Wood	Unpainted	Intact	Negative	0.00 ± 0.02
206	2nd	Room 4	C	Closet Cleat	Wood	White	Intact	Negative	0.07 ± 0.08
207	2nd	Room 4	C	Closet Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
208	2nd	Room 4	A	Baseboard	Wood	White	Intact	Negative	0.04 ± 0.06
209	2nd	Room 4	C	Baseboard	Wood	White	Intact	Negative	0.08 ± 0.11
210	2nd	Room 4	C	Cabinet Drawer	Wood	White	Intact	Negative	0.04 ± 0.06
211	2nd	Room 4	C	Cabinet Drawer	Wood	White	Intact	Negative	0.21 ± 0.27
212	2nd	Room 4	C	Cabinet Frame	Wood	White	Intact	Negative	0.04 ± 0.06
213	2nd	Room 4	A	Radiator	Plaster	Bronze	Intact	Negative	0.03 ± 0.05
214	2nd	Room 4	A	Wall	Plaster	Wallpaper	Poor	Negative	0.14 ± 0.10

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
215	2nd	Room 4	B	Wall	Plaster	Wallpaper	Poor	Negative	0.22 ± 0.22
216	2nd	Room 4	C	Wall	Plaster	Wallpaper	Poor	Negative	0.17 ± 0.18
217	2nd	Room 4	D	Wall	Plaster	Wallpaper	Poor	Negative	0.15 ± 0.08
218	2nd	Room 4	C	Ceiling	Plaster	White	Fair	Negative	0.01 ± 0.02
219	2nd	Room 4	C	Ceiling Trim	Wood	White	Intact	Negative	0.16 ± 0.22
220	2nd	Room 4	C	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.02
221	2nd	Room 5	A	Window Sill	Wood	White	Intact	Negative	0.19 ± 0.21
222	2nd	Room 5	A	Window Casing	Wood	White	Intact	Negative	0.13 ± 0.16
223	2nd	Room 5	B	Window Sill	Wood	White	Defective	Negative	0.29 ± 0.35
224	2nd	Room 5	B	Window Casing	Wood	White	Intact	Negative	0.16 ± 0.22
225	2nd	Room 5	C	Door Lft	Wood	White	Intact	Negative	0.07 ± 0.18
226	2nd	Room 5	C	Door Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
227	2nd	Room 5	C	Door Casing	Wood	White	Intact	Negative	0.00 ± 0.02
228	2nd	Room 5	C	Door Header	Wood	White	Intact	Negative	0.00 ± 0.02
229	2nd	Room 5	D	Door	Wood	White	Intact	Negative	0.14 ± 0.21
230	2nd	Room 5	D	Door Casing	Wood	White	Intact	Negative	0.21 ± 0.29
231	2nd	Room 5	D	Baseboard	Wood	White	Defective	Negative	0.07 ± 0.10
232	2nd	Room 5	A	Baseboard	Wood	White	Intact	Negative	0.14 ± 0.18
233	2nd	Room 5	B	Radiator	Metal	Bronze	Intact	Negative	0.06 ± 0.13
234	2nd	Room 5	A	Wall	Plaster	Green	Intact	Negative	0.00 ± 0.02
235	2nd	Room 5	B	Wall	Plaster	Green	Intact	Negative	0.00 ± 0.02
236	2nd	Room 5	C	Wall	Drywall	Green	Intact	Negative	0.00 ± 0.02
237	2nd	Room 5	D	Wall	Plaster	Green	Intact	Negative	0.00 ± 0.02
238	2nd	Room 5	D	Ceiling	Plaster	White	Intact	Negative	0.02 ± 0.05
239	2nd	Room 5	D	Ceiling Trim	Wood	White	Intact	Negative	0.10 ± 0.13
240	2nd	Room 5	D	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.03
241	2nd	Room 6	C	Window Sill	Wood	Varnish	Intact	Positive	1.90 ± 0.70
242	2nd	Room 6	C	Window Sill	Wood	Varnish	Intact	Negative	0.02 ± 0.05
243	2nd	Room 6	C	Window Sill	Wood	Varnish	Intact	Positive	4.80 ± 2.60
244	2nd	Room 6	C	Window Casing	Wood	Varnish	Intact	Negative	0.00 ± 0.02
245	2nd	Room 6	C	Window Sill	Wood	Varnish	Intact	Positive	6.40 ± 3.00
246	2nd	Room 6	D	Window Sill	Wood	Varnish	Intact	Positive	2.60 ± 1.00
247	2nd	Room 6	D	Window Sill	Wood	Varnish	Intact	Negative	0.05 ± 0.18
248	2nd	Room 6	D	Window Sill	Wood	Varnish	Intact	Negative	0.05 ± 0.07
249	2nd	Room 6	D	Window Casing	Wood	Varnish	Intact	Negative	0.04 ± 0.16
250	2nd	Room 6	A	Door	Wood	Varnish	Intact	Negative	0.05 ± 0.06
251	2nd	Room 6	A	Door Jamb	Wood	Varnish	Intact	Negative	0.01 ± 0.05
252	2nd	Room 6	A	Door Casing	Wood	Varnish	Intact	Negative	0.04 ± 0.11
253	2nd	Room 6	B	Closet Door	Wood	Varnish	Intact	Negative	0.06 ± 0.08
254	2nd	Room 6	B	Closet Jamb	Wood	Varnish	Intact	Negative	0.06 ± 0.07
255	2nd	Room 6	B	Closet Jamb	Wood	White	Intact	Negative	0.07 ± 0.09
256	2nd	Room 6	B	Closet Shelf	Wood	Wallpaper	Intact	Negative	0.01 ± 0.03
257	2nd	Room 6	B	Closet Cleat	Wood	White	Intact	Negative	0.04 ± 0.09
258	2nd	Room 6	B	Closet Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
259	2nd	Room 6	A	Baseboard	Wood	Varnish	Intact	Negative	0.04 ± 0.10
260	2nd	Room 6	B	Radiator	Metal	Bronze	Intact	Negative	0.04 ± 0.07
261	2nd	Room 6	A	Wall	Plaster	Wallpaper	Intact	Negative	0.03 ± 0.05
262	2nd	Room 6	B	Wall	Plaster	Wallpaper	Damaged	Negative	0.04 ± 0.03
263	2nd	Room 6	C	Wall	Plaster	Wallpaper	Intact	Negative	0.06 ± 0.09
264	2nd	Room 6	D	Wall	Plaster	Wallpaper	Intact	Negative	0.01 ± 0.02
265	2nd	Room 6	A	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
266	2nd	Room 6	A	Ceiling Trim	Wood	Varnish	Intact	Negative	0.02 ± 0.05

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
267	2nd	Room 6	A	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.02
268	2nd	Bath 2	B	Window Sill	Wood	White	Intact	Negative	0.15 ± 0.25
269	2nd	Bath 2	B	Window Casing	Wood	White	Intact	Negative	0.12 ± 0.16
270	2nd	Bath 2	C	Window Sill	Wood	White	Intact	Negative	0.06 ± 0.12
271	2nd	Bath 2	C	Window Casing	Wood	White	Intact	Negative	0.04 ± 0.08
272	2nd	Bath 2	A	Door Lft	Wood	White	Intact	Negative	0.06 ± 0.12
273	2nd	Bath 2	A	Door Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
274	2nd	Bath 2	D	Door	Wood	White	Intact	Negative	0.14 ± 0.25
275	2nd	Bath 2	D	Door Jamb	Wood	White	Intact	Negative	0.07 ± 0.10
276	2nd	Bath 2	D	Door Threshold	Wood	Varnish	Intact	Negative	0.00 ± 0.04
277	2nd	Bath 2	B	Closet Door	Wood	White	Intact	Negative	0.00 ± 0.02
278	2nd	Bath 2	B	Closet Casing	Wood	Varnish	Intact	Negative	0.00 ± 0.02
279	2nd	Bath 2	B	Closet Cleat	Wood	White	Intact	Negative	0.00 ± 0.02
280	2nd	Bath 2	B	Closet Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
281	2nd	Bath 2	B	Closet Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
282	2nd	Bath 2	B	Cabinet Door Upr	Wood	White	Intact	Negative	0.00 ± 0.02
283	2nd	Bath 2	C	Closet Door	Wood	White	Intact	Negative	0.00 ± 0.02
284	2nd	Bath 2	C	Closet Casing	Wood	White	Intact	Negative	0.00 ± 0.02
285	2nd	Bath 2	C	Closet Cleat	Wood	White	Intact	Negative	0.00 ± 0.02
286	2nd	Bath 2	C	Closet Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
287	2nd	Bath 2	D	Closet Door Rht	Wood	White	Intact	Negative	0.00 ± 0.02
288	2nd	Bath 2	D	Closet Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
289	2nd	Bath 2	D	Closet Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
290	2nd	Bath 2	B	Baseboard	Wood	White	Defective	Negative	0.20 ± 0.32
291	2nd	Bath 2	C	Baseboard	Wood	White	Intact	Negative	0.11 ± 0.29
292	2nd	Bath 2	A	Corner Trim	Wood	White	Intact	Negative	0.00 ± 0.02
293	2nd	Bath 2	B	Radiator	Metal	Bronze	Intact	Negative	0.08 ± 0.17
294	2nd	Bath 2	A	Wall Rht	Drywall	Blue	Intact	Negative	0.00 ± 0.02
295	2nd	Bath 2	C	Wall Rht	Drywall	Blue	Intact	Negative	0.00 ± 0.02
296	2nd	Bath 2	C	Wall	Drywall	Blue	Intact	Negative	0.00 ± 0.02
297	2nd	Bath 2	D	Wall Lft	Drywall	Blue	Intact	Negative	0.00 ± 0.02
298	2nd	Bath 2	C	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
299	2nd	Bath 2	C	Ceiling Trim	Wood	White	Defective	Negative	0.15 ± 0.27
300	2nd	Bath 2	D	Opening Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
301	2nd	Bath 3	C	Window Sill	Wood	White	Intact	Negative	0.11 ± 0.27
302	2nd	Bath 3	C	Window Casing	Wood	White	Intact	Negative	0.28 ± 0.47
303	2nd	Bath 3	B	Opening Casing	Wood	White	Intact	Negative	0.00 ± 0.02
304	2nd	Bath 3	D	Baseboard	Wood	White	Intact	Negative	0.05 ± 0.09
305	2nd	Bath 3	A	Cabinet Frame	Wood	White	Intact	Negative	0.00 ± 0.03
306	2nd	Bath 3	A	Wall	Drywall	Blue	Intact	Negative	0.00 ± 0.02
307	2nd	Bath 3	B	Wall	Drywall	Blue	Intact	Negative	0.00 ± 0.02
308	2nd	Bath 3	C	Wall	Drywall	Blue	Intact	Negative	0.00 ± 0.02
309	2nd	Bath 3	D	Wall	Drywall	Blue	Intact	Negative	0.00 ± 0.02
310	2nd	Bath 3	C	Radiator	Metal	White	Fair	Negative	0.00 ± 0.02
311	2nd	Bath 3	C	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.03
312	2nd	Balcony	A	Porch Baluster	Wood	White	Defective	Positive	22.70 ± 9.00
313	2nd	Balcony	A	Porch Rail Cap	Wood	White	Defective	Positive	19.30 ± 8.30
314	2nd	Balcony	A	Porch Column	Wood	White	Defective	Positive	20.10 ± 8.50
315	2nd	Balcony	A	Porch Upper Trim	Wood	White	Intact	Positive	18.30 ± 17.00
316	2nd	Balcony	A	Porch Ceiling	Wood	Unpainted	Intact	Negative	0.12 ± 0.31
317	2nd	Balcony	A	Ext. Siding	Wood	White	Intact	Positive	20.70 ± 8.80
318	2nd	Balcony	A	Ext. Soffit	Wood	White	Defective	Positive	22.50 ± 9.20

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
319	2nd	Balcony	A	Ext. Soffit Bracket	Wood	White	Defective	Positive	20.50 ± 18.40
320	2nd	Balcony	A	Porch Floor	Metal	Beige	Defective	Positive	3.50 ± 1.60
321	2nd	Balcony	A	Porch Floor	Metal	Beige	Defective	Positive	14.00 ± 7.00
322	2nd	Attic Stairs	D	Door	Wood	Varnish	Intact	Negative	0.08 ± 0.08
323	2nd	Attic Stairs	D	Door Jamb	Wood	Varnish	Intact	Negative	0.06 ± 0.07
324	2nd	Attic Stairs	A	Stair Stringer	Wood	Beige	Intact	Negative	0.08 ± 0.11
325	2nd	Attic Stairs	C	Stair Stringer	Wood	Beige	Intact	Negative	0.17 ± 0.20
326	2nd	Attic Stairs	D	Stair Riser	Wood	Beige	Intact	Negative	0.07 ± 0.10
327	2nd	Attic Stairs	D	Stair Riser	Wood	Beige	Intact	Negative	0.08 ± 0.13
328	2nd	Attic Stairs	A	Stair Tread	Wood	Tan	Defective	Negative	0.30 ± 0.28
329	2nd	Attic Stairs	A	Stair Tread	Wood	Tan	Defective	Negative	0.14 ± 0.21
330	2nd	Attic Stairs	A	Wall	Plaster	Beige	Damaged	Negative	0.00 ± 0.02
331	2nd	Attic Stairs	C	Wall	Plaster	Beige	Intact	Negative	0.00 ± 0.02
332	2nd	Attic Stairs	C	Stair Wallcasing	Wood	Beige	Intact	Negative	0.05 ± 0.11
333	Attic	Attic Stairs	C	Stair Baluster	Wood	Beige	Poor	Negative	0.00 ± 0.02
334	Attic	Attic Stairs	C	Stair Baluster	Wood	Beige	Poor	Negative	0.00 ± 0.02
335	Attic	Attic Stairs	C	Stair Newel Post	Wood	Beige	Fair	Negative	0.00 ± 0.02
336	Attic	Attic Stairs	C	Stair Railing	Wood	Beige	Fair	Negative	0.00 ± 0.02
337	Attic	Room 7	D	Window Sill	Wood	Beige	Peeling	Negative	0.10 ± 0.22
338	Attic	Room 7	D	Window Sill	Wood	Beige	Peeling	Negative	0.09 ± 0.15
339	Attic	Room 7	D	Window Casing	Wood	Beige	Intact	Negative	0.00 ± 0.02
340	Attic	Room 7	D	Window Sash Int.	Wood	Beige	Defective	Negative	0.06 ± 0.08
341	Attic	Room 7	D	Window Sash Int.	Wood	Beige	Defective	Null	0.18 ± 0.52
342	Attic	Room 7	D	Window Sash Int.	Wood	Beige	Defective	Negative	0.05 ± 0.07
343	Attic	Room 7	D	Window Sash Ext.	Wood	White	Intact	Positive	2.80 ± 1.00
344	Attic	Room 7	D	Window Well	Wood	White	Defective	Positive	18.60 ± 8.00
345	Attic	Room 7	A	Window Sill	Wood	Beige	Defective	Negative	0.06 ± 0.17
346	Attic	Room 7	A	Window Sill	Wood	Beige	Defective	Negative	0.01 ± 0.03
347	Attic	Room 7	A	Window Casing	Wood	Beige	Defective	Negative	0.00 ± 0.02
348	Attic	Room 7	A	Window Sash Int.	Wood	Beige	Defective	Negative	0.10 ± 0.12
349	Attic	Room 7	A	Window Sash Int.	Wood	Beige	Defective	Negative	0.05 ± 0.17
350	Attic	Room 7	A	Window Sash Ext.	Wood	White	Intact	Negative	0.30 ± 0.20
351	Attic	Room 7	A	Window Sash Ext.	Wood	White	Intact	Positive	2.40 ± 1.30
352	Attic	Room 7	A	Window Well	Wood	White	Defective	Positive	20.10 ± 8.40
353	Attic	Exterior	A	Ext. Siding	Wood	White	Defective	Positive	10.30 ± 4.30
354	Attic	Room 7	C	Door	Wood	Beige	Intact	Negative	0.00 ± 0.02
355	Attic	Room 7	C	Door Casing	Wood	Beige	Intact	Negative	0.00 ± 0.02
356	Attic	Room 7	A	Baseboard	Wood	Beige	Intact	Negative	0.02 ± 0.04
357	Attic	Room 7	C	Baseboard	Wood	Beige	Intact	Negative	0.00 ± 0.02
358	Attic	Room 7	D	Corner Trim	Wood	Beige	Intact	Negative	0.00 ± 0.02
359	Attic	Room 7	A	Wall	Drywall	Beige	Intact	Negative	0.00 ± 0.02
360	Attic	Room 7	C	Wall	Drywall	Beige	Intact	Negative	0.00 ± 0.02
361	Attic	Room 7	A	Wall Batten	Wood	Beige	Intact	Negative	0.00 ± 0.02
362	Attic	Room 7	C	Wall Batten	Wood	Beige	Intact	Negative	0.00 ± 0.02
363	Attic	Room 7	C	Wall Trim	Wood	Beige	Intact	Negative	0.00 ± 0.02
364	Attic	Room 7	D	Ceiling	Drywall	Beige	Intact	Negative	0.00 ± 0.02
365	Attic	Room 7	D	Ceiling Batten	Wood	Beige	Defective	Negative	0.00 ± 0.02
366	Attic	Room 7	B	Ceiling Batten	Wood	Beige	Intact	Negative	0.00 ± 0.03
367	Attic	Room 7	B	Ceiling	Drywall	Beige	Intact	Negative	0.00 ± 0.02
368	Attic	Room 7	A	Floor	Wood	Tan	Intact	Negative	0.08 ± 0.13
369	Attic	Room 7	C	Floor	Wood	Tan	Defective	Negative	0.30 ± 0.40
370	Attic	Attic	C	Window Sill	Wood	Unpainted	Intact	Negative	0.10 ± 0.11

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PhC
371	Attic	Attic	C	Window Sash Int.	Wood	Unpainted	Intact	Negative	0.04 ± 0.08
372	Attic	Attic	C	Window Sash Int.	Wood	Unpainted	Intact	Negative	0.03 ± 0.05
373	Attic	Attic	C	Window Sash Ext.	Wood	White	Intact	Positive	1.80 ± 0.60
374	Attic	Attic	C	Window Well (2)	Wood	White	Defective	Positive	11.60 ± 4.70
375	1st	Base Stairs	C	Door	Wood	White	Fair	Negative	0.05 ± 0.10
376	1st	Base Stairs	C	Door Jamb	Wood	White	Fair	Negative	0.07 ± 0.10
377	1st	Base Stairs	D	Door	Wood	White	Fair	Positive	6.90 ± 3.60
378	1st	Base Stairs	D	Door Jamb	Wood	Off-White	Defective	Positive	22.90 ± 12.80
379	1st	Base Stairs	A	Wall Casing	Wood	Blue	Intact	Negative	0.06 ± 0.17
380	1st	Base Stairs	B	Wall Casing	Wood	Blue	Intact	Negative	0.04 ± 0.11
381	1st	Base Stairs	D	Baseboard	Wood	Blue	Intact	Negative	0.01 ± 0.05
382	1st	Base Stairs	B	Wall	Plaster	Blue	Intact	Negative	0.70 ± 0.10
383	1st	Base Stairs	B	Wall	Plaster	Blue	Intact	Negative	0.40 ± 0.10
384	1st	Base Stairs	D	Wall	Plaster	Blue	Intact	Negative	0.07 ± 0.05
385	1st	Base Stairs	C	Door Casing	Wood	Blue	Intact	Negative	0.04 ± 0.11
386	1st	Base Stairs	A	Ceiling	Wood	White	Poor	Negative	0.09 ± 0.05
387	Base	Base Stairs	D	Wall - Lower	Wood	Beige	Intact	Negative	0.40 ± 0.30
388	Base	Base Stairs	D	Wall - Lower	Wood	Beige	Intact	Negative	0.16 ± 0.21
389	Base	Base Stairs	B	Joist	Wood	Beige	Intact	Negative	0.02 ± 0.04
390	Base	Base Stairs	C	Stair Riser	Wood	Green	Defective	Negative	0.06 ± 0.08
391	Base	Base Stairs	C	Stair Riser	Wood	Green	Defective	Negative	0.08 ± 0.14
392	Base	Base Stairs	C	Stair Riser	Wood	Black	Defective	Negative	0.23 ± 0.14
393	Base	Basement	Cr	Lally Column	Metal	Black	Intact	Negative	0.00 ± 0.02
394	Base	Basement	Cr	Lally Column	Metal	Black	Intact	Negative	0.00 ± 0.02
395	Base	Basement	C	Wall	Plywood	White	Intact	Negative	0.00 ± 0.02
396	Exterior		A	Door	Wood	Green	Intact	Positive	1.10 ± 0.10
397	Exterior		A	Door	Wood	Green	Intact	Positive	1.80 ± 0.50
398	Exterior		A	Door Casing	Wood	White	Defective	Positive	22.20 ± 9.30
399	Exterior		A	Door Side Lite	Wood	White	Defective	Positive	11.10 ± 5.90
400	Exterior		A	Window Sill	Wood	White	Intact	Positive	29.50 ± 11.20
401	Exterior		A	Door Threshold	Wood	Beige	Defective	Positive	1.80 ± 0.50
402	Exterior		A	Door Threshold	Wood	Beige	Defective	Positive	6.60 ± 3.60
403	Exterior		A	Door Kick Plate	Wood	White	Defective	Positive	26.40 ± 13.80
404	Exterior		A	Porch Column	Wood	White	Defective	Positive	28.60 ± 14.80
405	Exterior		A	Porch Baluster	Wood	White	Defective	Positive	23.00 ± 9.30
406	Exterior		A	Porch Rail Cap	Wood	White	Intact	Positive	25.10 ± 13.50
407	Exterior		A	Porch Upper Trim	Wood	White	Intact	Positive	21.20 ± 18.80
408	Exterior		A	Porch Upper Trim	Wood	White	Intact	Positive	24.00 ± 7.30
409	Exterior		A	Porch Ceiling	Wood	Varnish	Fair	Negative	0.21 ± 0.16
410	Exterior		A	Ext. Soffit	Wood	White	Intact	Positive	23.00 ± 9.50
411	Exterior		A	Porch Floor	Wood	Gray	Defective	Positive	14.50 ± 5.50
412	Exterior		B	Porch Floor	Wood	Gray	Intact	Positive	12.40 ± 6.40
413	Exterior		A	Ext. Siding	Wood	White	Intact	Positive	16.10 ± 5.80
414	Exterior		A	Porch Lwr Rail	Wood	White	Intact	Negative	0.00 ± 0.02
415	Exterior		A	Porch Lwr Rail	Wood	White	Defective	Negative	0.00 ± 0.02
416	Exterior		D	Porch Lwr Rail	Wood	White	Defective	Negative	0.03 ± 0.12
417	Exterior		A	Stair Riser Up	Wood	White	Intact	Negative	0.03 ± 0.05
418	Exterior		A	Stair Riser Mid	Wood	White	Peeling	Negative	0.01 ± 0.05
419	Exterior		B	Ext. Siding	Wood	White	Peeling	Positive	18.10 ± 7.90
420	Exterior		B	Ext. Siding	Wood	White	Peeling	Positive	14.90 ± 5.60
421	Exterior		B	Corner Trim	Wood	White	Intact	Positive	13.30 ± 5.00
422	Exterior		B	Cell Wind. Frame	Wood	White	Intact	Positive	21.20 ± 8.70

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC	
423		Exterior	C	Door	Metal	White	Intact	Negative	0.00 ± 0.02	
424		Exterior	C	Door Casing	Wood	White	Intact	Negative	0.00 ± 0.02	
425		Exterior	C	Ext. Siding Lft	Wood	White	Intact	Positive	17.90 ± 7.90	
426		Exterior	C	Ext. Siding Rht	Wood	White	Intact	Positive	15.60 ± 5.50	
427		Exterior	C	Ext. Siding Up	Wood	White	Intact	Negative	0.70 ± 0.10	
428		Exterior	C	Ext. Siding Up	Wood	White	Intact	Positive	14.30 ± 5.30	
429		Exterior	C	Ext. Soffit	Wood	White	Intact	Positive	24.70 ± 9.80	
430		Exterior	C	Ext. Fascia	Wood	White	Intact	Positive	2.80 ± 1.30	
431		Exterior	C	Deck Floor	Wood	Beige	Fair	Negative	0.01 ± 0.05	
432		Exterior	C	Deck Rail Cap	Wood	Beige	Fair	Negative	0.01 ± 0.04	
433		Exterior	C	Deck Baluster	Wood	Beige	Fair	Negative	0.00 ± 0.02	
434		Exterior	D	Door	Wood	Beige	Intact	Positive	12.70 ± 5.10	
435		Exterior	D	Door Casing	Wood	Beige	Intact	Positive	19.90 ± 8.50	
436		Exterior	D	Ext. Siding	Wood	Beige	Intact	Positive	16.80 ± 6.00	
437		Exterior	D	Ext. Siding	Wood	Beige	Intact	Negative	0.09 ± 0.29	
438		Exterior	D	Cell. Wind. Frame	Wood	White	Intact	Negative	0.01 ± 0.03	
439		Exterior	D	Cell. Wind. Frame	Wood	White	Intact	Positive	4.40 ± 2.10	
440		Garage Ext	A	Overhead Dr	Metal	White	Fair	Negative	0.01 ± 0.06	
441		Garage Ext	A	Overhead Dr Jamb	Wood	White	Intact	Positive	1.50 ± 0.50	
442		Garage Ext	A	Ext. Siding	Wood	White	Intact	Negative	0.12 ± 0.31	
443		Garage Ext	A	Ext. Siding	Wood	White	Intact	Negative	0.17 ± 0.35	
444		Garage Ext	A	Corner Trim	Wood	White	Intact	Negative	0.00 ± 0.02	
445		Garage Ext	D	Ext. Siding	Wood	White	Intact	Negative	0.03 ± 0.06	
446		Garage Ext	D	Ext. Siding	Wood	White	Intact	Negative	0.03 ± 0.06	
448		Garage Ext	A	Gable Trim	Wood	White	Intact	Positive	1.60 ± 0.60	
449		Garage Ext	A	Gable Trim	Wood	White	Intact	Null	1.20 ± 0.70	
450		Garage Ext	A	Gable Trim	Wood	White	Intact	Positive	1.10 ± 0.10	
451		Garage Ext	B	Ext. Siding	Wood	White	Intact	Negative	0.13 ± 0.19	
452		Garage Ext	B	Ext. Siding	Wood	White	Intact	Negative	0.05 ± 0.07	
453		Garage Ext	B	Window Casing	Wood	White	Intact	Null	1.60 ± 0.40	
454		Garage Ext	B	Window Casing	Wood	White	Intact	Positive	1.70 ± 0.50	
455		Garage Ext	B	Window Sash Ext.	Wood	Pink	Defective	Positive	1.20 ± 0.20	
456		Garage Ext	B	Corner Trim	Wood	White	Intact	Negative	0.15 ± 0.27	
457		Garage Ext	C	Corner Trim	Wood	White	Intact	Negative	0.40 ± 0.20	
458		Garage Ext	C	Ext. Siding	Wood	White	Intact	Negative	0.02 ± 0.09	
459		Garage Ext	C	Ext. Siding	Wood	White	Intact	Negative	0.07 ± 0.20	
460				Calibration- Surface				1.53mg/cm ²	Positive	1.50 ± 0.10
461				Calibration- Buried				1.04mg/cm ²	Positive	1.00 ± 0.10
462				Calibration- Buried				1.04mg/cm ²	Positive	1.10 ± 0.10
463				Calibration- Buried				1.04mg/cm ²	Positive	1.10 ± 0.10
464				Calibration- Buried				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: 19-09-00977

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

Received Date: 09/09/2019
 Analyzed Date: 09/11/2019
 Reported Date: 09/13/2019

Project/Test Address: 19-0259; Robbins Residence Assessment Tests; 5 Stenson St; Norwich, CT 06360

Collection Date: 09/03/2019

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
19-09-00977-001	DW-1	C SIDE ROOM 2	FL	10.2	1.00	10.2	
19-09-00977-002	DW-2	C SIDE ROOM 2	SL	99.2	0.750	132	
19-09-00977-003	DW-3	C SIDE ROOM 2	WW	531	0.747	711	
19-09-00977-004	DW-4	A SIDE ROOM 5	FL	139	1.00	139	
19-09-00977-005	DW-5	A SIDE ROOM 5	SL	61.4	0.639	96.0	
19-09-00977-006	DW-6	D SIDE ROOM 4	FL	6.94	1.00	6.94	
19-09-00977-007	DW-7	A SIDE LEFT ROOM 4	SL	89.5	0.639	140	

Environmental Hazards Services, L.L.C

Client Number: 07-1566
Project/Test Address: 19-0259; Robbins Residence Assessment Tests; 5 Stenson St; Norwich, CT 06360

Report Number: 19-09-00977

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

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

19-09-00977



Due Date:
 09/11/2019
 (Wednesday)
 AE

CHAIN OF CUSTODY FORM

Date: September 06, 2019
 Company Name: CT Lead Paint Solutions, LLC
 Address: 1245 Hebron Ave.
 City, State, Zip: Glastonbury, CT 06033
 Phone: 860-633-3330
 Project Name: Robbins Residence
 Project Address: 5 Stenson St, Norwich, CT 06360
 Project Number: 19-0259

E-mail to: andrew@ctleadpaint.com
 Dates of Collections: September 03, 2019

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

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

Sample #	Area size/ Sq. inch	Location Sample and Substrate	Room or area
DW-1	144.00	Floor, C side, wood	Room 2
DW-2	108.00	Window sill, C side, wood	Room 2
DW-3	107.50	Window well, C side, vinyl	Room 2
DW-4	144.00	Floor, A side, wood	Room 5
DW-5	92.00	Window sill, A side, wood	Room 5
DW-6	144.00	Floor, D side, wood	Room 4
DW-7	92.00	Window sill, A side, left, wood	Room 4
Collected	Andrew Miller	Signature <i>Andrew Miller</i>	Date: Sept. 03, 2019
Mailed	Andrew Miller	Signature <i>Andrew Miller</i>	Date: Sept. 07, 2019
Received	<i>TS Stone</i>	Signature <i>TS Stone</i>	Date: <i>9/9/19</i>

12.52pm



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

Lead in Soil Analysis Report

Report Number: 19-09-00983

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

Received Date: 09/09/2019
Analyzed Date: 09/11/2019
Reported Date: 09/15/2019

Project/Test Address: 19-0259; Robbins Residence Assessment Tests; 5 Stenson St; Norwich, CT 06360
Collection Date: 09/03/2019

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
19-09-00983-001	SOIL-3	B SIDE	940	
19-09-00983-002	SOIL-4	C SIDE	300	

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 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

19-09-00983

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



Due Date:
 09/12/2019
 (Thursday)
 AE

60

CHAIN OF CUSTODY FORM

Date: September 06, 2019
 Company Name: CT Lead Paint Solutions, LLC
 Address: 1245 Hebron Ave.
 City, State, Zip: Glastonbury, CT 06033
 Phone: 860-633-3330
 Project Name: Robbins Residence
 Assessment Tests
 E-mail to: andrew@ctleadpaint.com
 Dates of Collections: September 03, 2019
 Project Address: 5 Stenson St, Norwich, CT 06360
 Project Number 19-0259

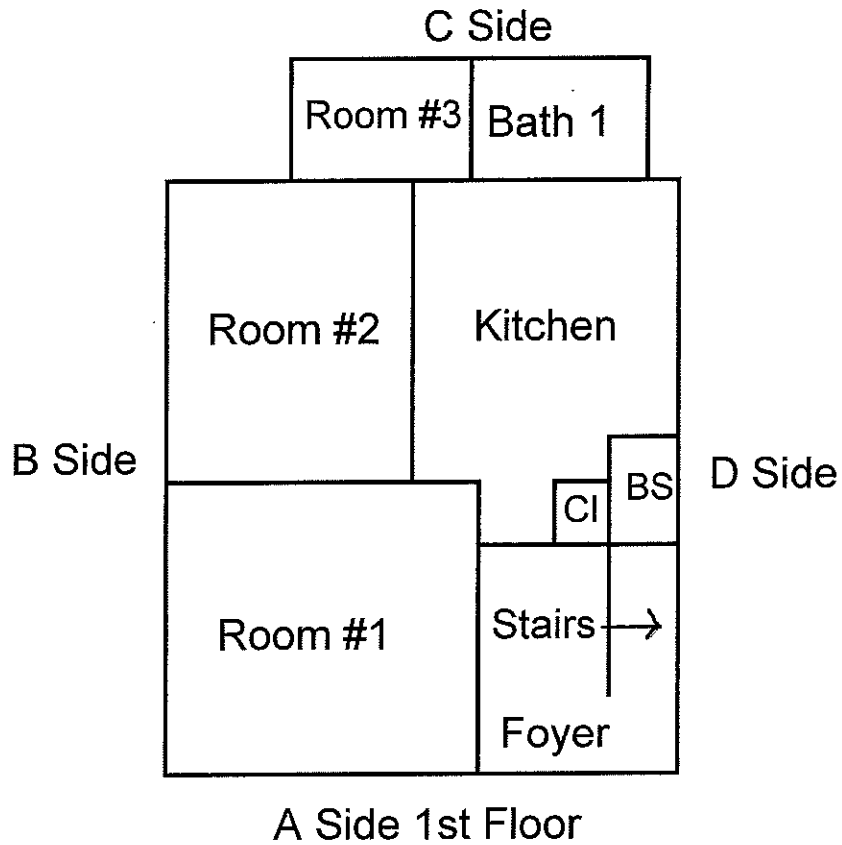
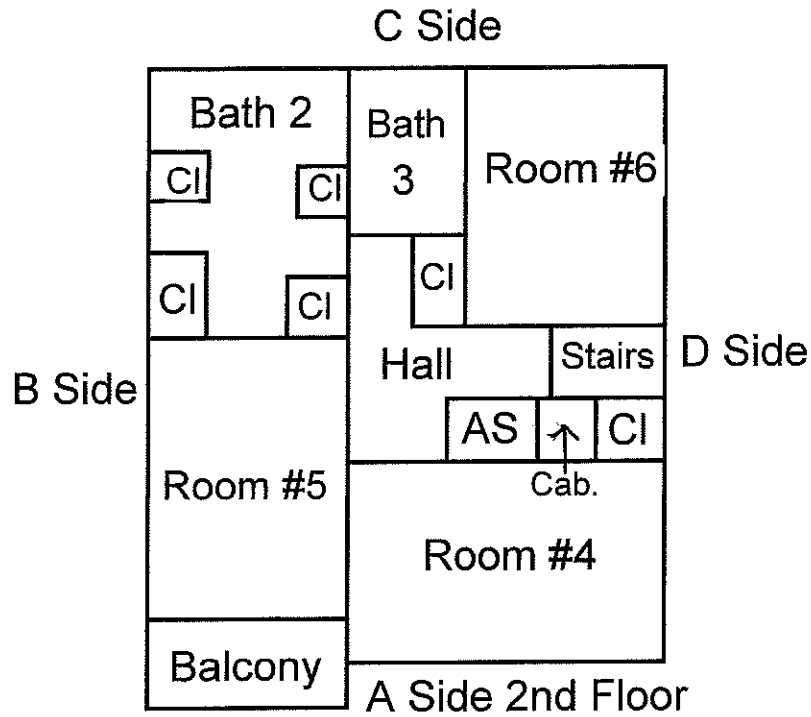
Matrix	Method	Instrument	mdls	TAT
Lead in Soil	EPA846-7420	Flame Atomic Absorption	20mg/kg 20 ppm	three day

Lead in Soil

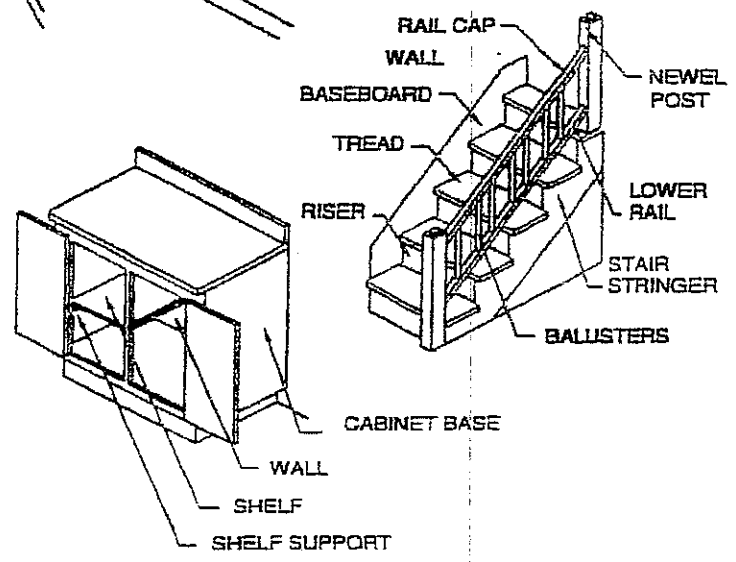
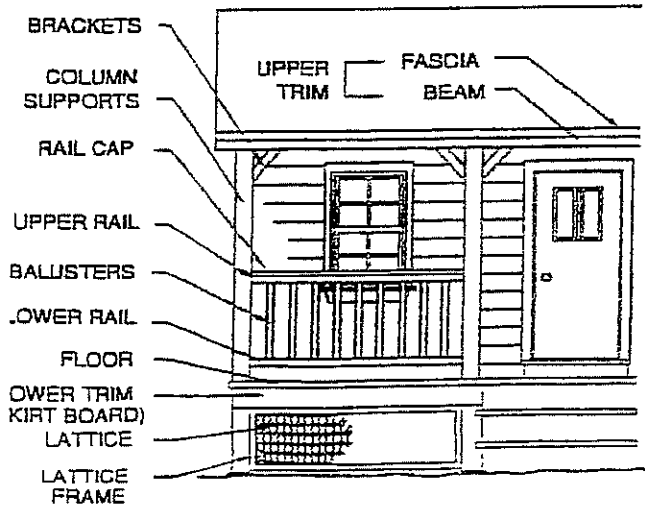
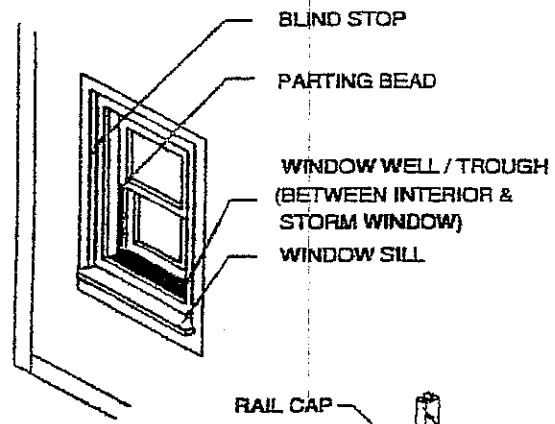
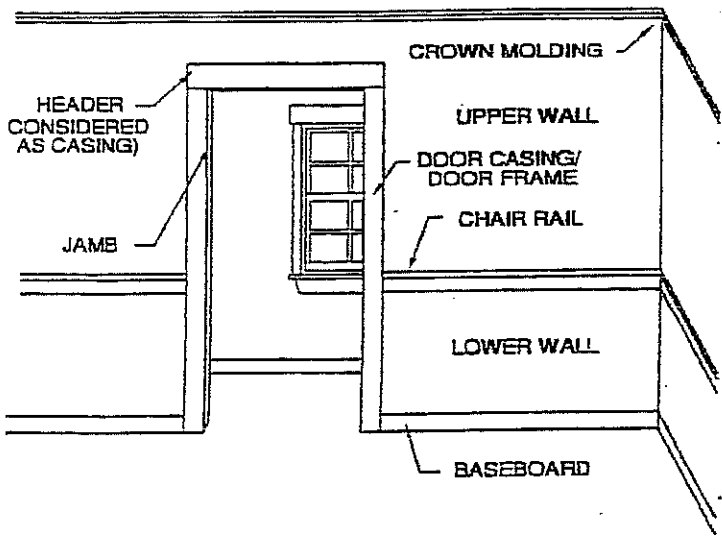
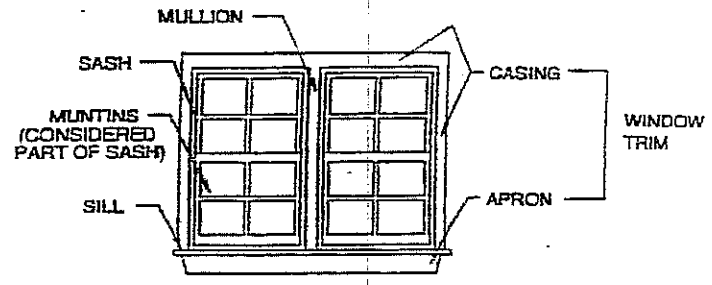
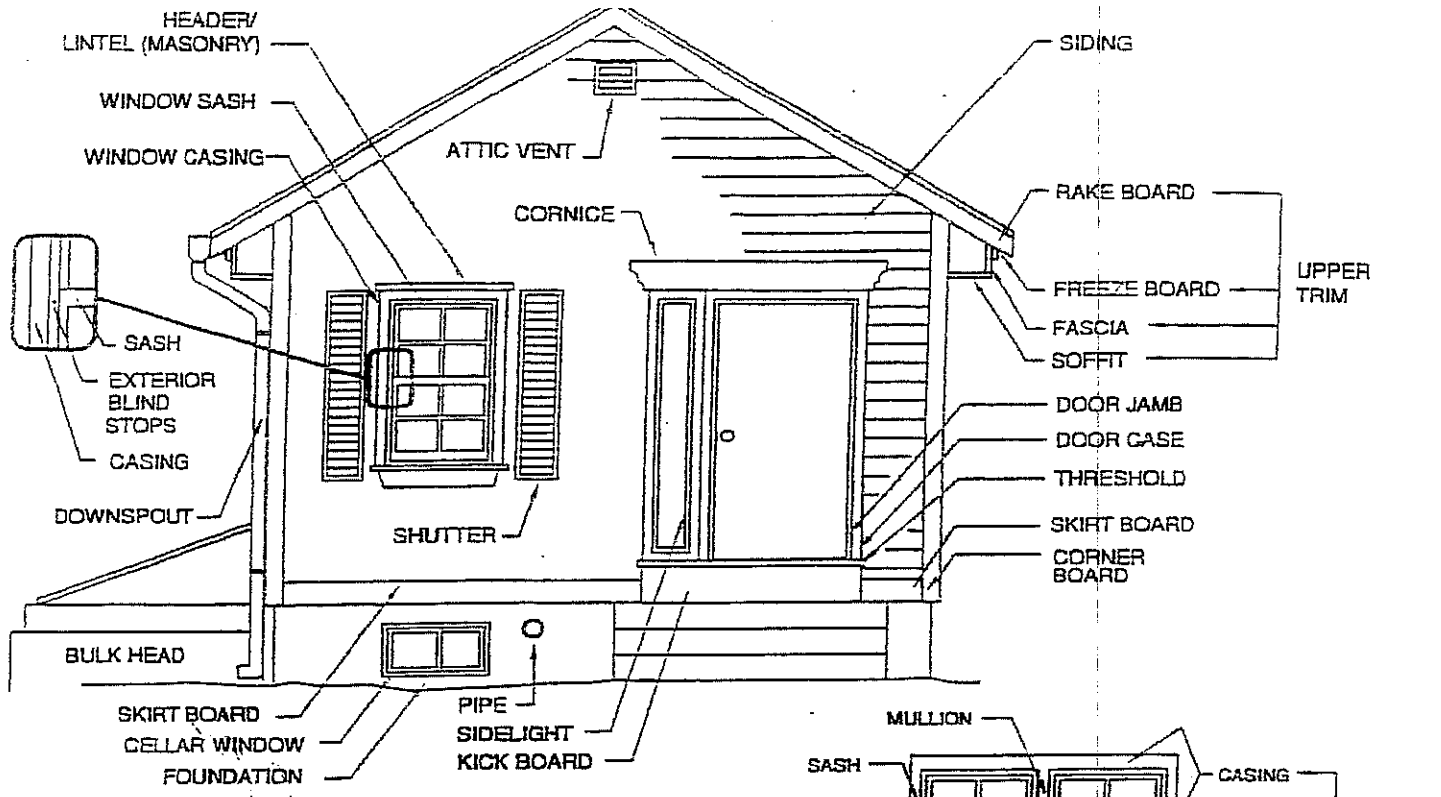
Sample #	Exterior Area	Location Sample	Comments	Lab notes
Soil - 3	Collected from bare soil with-in 1 foot of the house	B side	6 composite samples (contains many paint chips)	
Soil - 4	Collected from bare soil with-in 1 foot of the house and along deck	C side	6 composite samples (D side concrete and asphalt)	
		Lab, please mix sample		
Collected	Andrew Miller	Sign. <i>Andrew Miller</i>	Date: Sept. 03, 2019	
Mailed by	Andrew Miller	Sign. <i>Andrew Miller</i>	Date: Sept. 07, 2019	
Received by	<i>TStone</i>	Sign. <i>TStone</i>	Date: <i>9/9/19 12:52 PM</i>	

1
2
AS

Room #7 is in the Attic, front
 AS = Attic Stairs
 Cl = Closet



5 Stetson St, Norwich, CT 06360



**Lead Abatement Plan
for
5 Stetson St
Norwich, CT 06360**

A. Background Information

This abatement plan was submitted on September 27, 2019.

Address of property to be abated;
5 Stetson St
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 27 and September 03, 2019.

B. Owner/Owner Agent Information

The owner and agent of the house is;
Charity Robbins
5 Stetson St
Norwich, CT 06360
860-790-9129

C. Resident Information

At the time of the inspection at least one child under the age of Six years resided in the house.

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 possible 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 the front porch floor with plywood.

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 or about 1910. 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
5 Stetson St
Norwich, CT 06360

Room or Area	Component, number of components, Substrate	Location	Abatement Method	Comments
Interior, 1st floor				
Room 1	Window sills and casings, 3	A and B	Prepare and encapsulate with 2 coats of an approved encapsulate paint.	
	Door jamb and casing, 1, wd	C side	Prepare and encapsulate	Sliding doors, not an impact surface
	Opening casing and jamb	D side	Prepare and encapsulate	Painted surfaces only
	Baseboards, all, wood	All sides	Prepare and encapsulate	
Room 2	Window sill, 1, wood	B side right	Prepare and encapsulate with an approved clear finish	The owner may accept white as a color
Bath 1	Door, Door jamb and casing, 1	A side	Door treatment. See note at end of plan.	
Room 6	Window sills, 2, wood	C and D side	Prepare and encapsulate with an approved clear finish	
Room 7	Window sashes, 4, wood	A and D sides	Remove wood windows and replace with vinyl replacement units.	
	Window wells, exterior sills and casings, 4, wood	A and D sides	Prepare and encapsulate with 2 coats of an approved encapsulate paint.	
Attic	Window sashes, 2, wood	C side	Remove wood windows and replace with vinyl replacement units.	
Base. Stairs	Door and door jamb, 1, wood	D side	Replace with new metal or fiberglass pre-hung unit.	

Abatement sheet for 5 Stetson St, Norwich, CT 06360

Room or Area	Component, number of components, Substrate	Location	Abatement Method	Comments
2nd Floor				
Balcony	Porch balusters, columns, railings, upper trim and adjacent soffits and brackets	A side, 2 nd floor	Prepare and encapsulate with 2 coats of an approved encapsulate paint.	Just prep and paint soffits above the Balcony
	Porch floor, all, metal	All, A side	Hepa vacuum paint chips and remove all paint by using Chemical stripper,	Most surfaces on the floor are unpainted.
Exterior				
Front Porch	Front door, door jamb and casing, 1, wood	A side	Door treatment	Door RER
	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 kickboard, 1, wood	A side	Cover with new wood	
	Porch columns, balusters and railings, all	A side	Prepare and encapsulate, 2 coats	
	Porch floor, all, wood	All sides	Cover with ½ inch PT plywood. Paint with 2 coats of ext. grade paint.	Alt method; remove all paint and test with XRF after to ensure that the lead levels are below regulatory levels.
Exterior	Siding, all, wood	B side, 1 st floor	Prepare and encapsulate, 2 coats	Just the clapboards and trim from below shingles t ground. Fill nail holes and caulk along window casings.
	Door and door jamb, 1, wood	D side	Replace with new metal or fiberglass pre-hung door unit.	
	Window casings and sills, 6	Attic	Prepare and encapsulate after the new vinyl widows are installed. Remove all old hardware on casings.	
Garage Ext.	Window sash, 1, wood	B side	Replace with a vinyl replacement unit.	
	Overhead door jamb 1	A side	Prepare and encapsulate	
Yard	Yard	B side	Cut grass out 4 feet, Hepa vacuum any visible paint chips and plant grass.	

ALT 1

ALT 2

ALT 3
Remove and replace with 1 1/2 in.

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)