

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

**CITY OF NORWICH
PROPERTY REHABILITATION &
LEAD PAINT HAZARD CONTROL
PROGRAMS
Project LP1651-RP1901**

**54 Coit Street
Norwich, CT. 06360**

PROJECT SPECIFICATION

**Bid 1-Lead Paint Hazard Control
Bid 2-Heating**

**CITY OF NORWICH
INVITATION TO BID**

PROPERTY REHABILITATION & LEAD PAINT HAZARD CONTROL PROGRAMS

Bids for: LP1901-RP1384

**54 Coit Street
Norwich CT.**

BID 1- Lead Paint Hazard Control

BID 2 - Heating

***** Attention: (Due to Covid 19) all social distancing protocols will be required on site. Contractors will be required to wear face masks, observe 6 feet of distance between individuals. No more than three contractors will be allowed in the property at the same time and no contractor will be allowed access to the property without a proper face mask.**

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

The residence at

54 Coit Street

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 05-07-20 at 10:00 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 05-15-20, 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:

54 Coit 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 **5-07-20 At 10:00 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: #LP1901-RP1433 54 Coit Street
-On the outside front of the envelope-

4. **The sealed bid proposals will be received until 4:00 PM on 10-25-20,** 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: LP1901-RP1433
ADDRESS: 54 Coit Street
Norwich, Connecticut, 06360

OWNERS NAME: Lubana Mamun
OWNERS ADDRESS: 54 Coit Street
Norwich CT. 06360

OWNERS PHONE NO: 860-514-1675

For the City of Norwich, Contact:

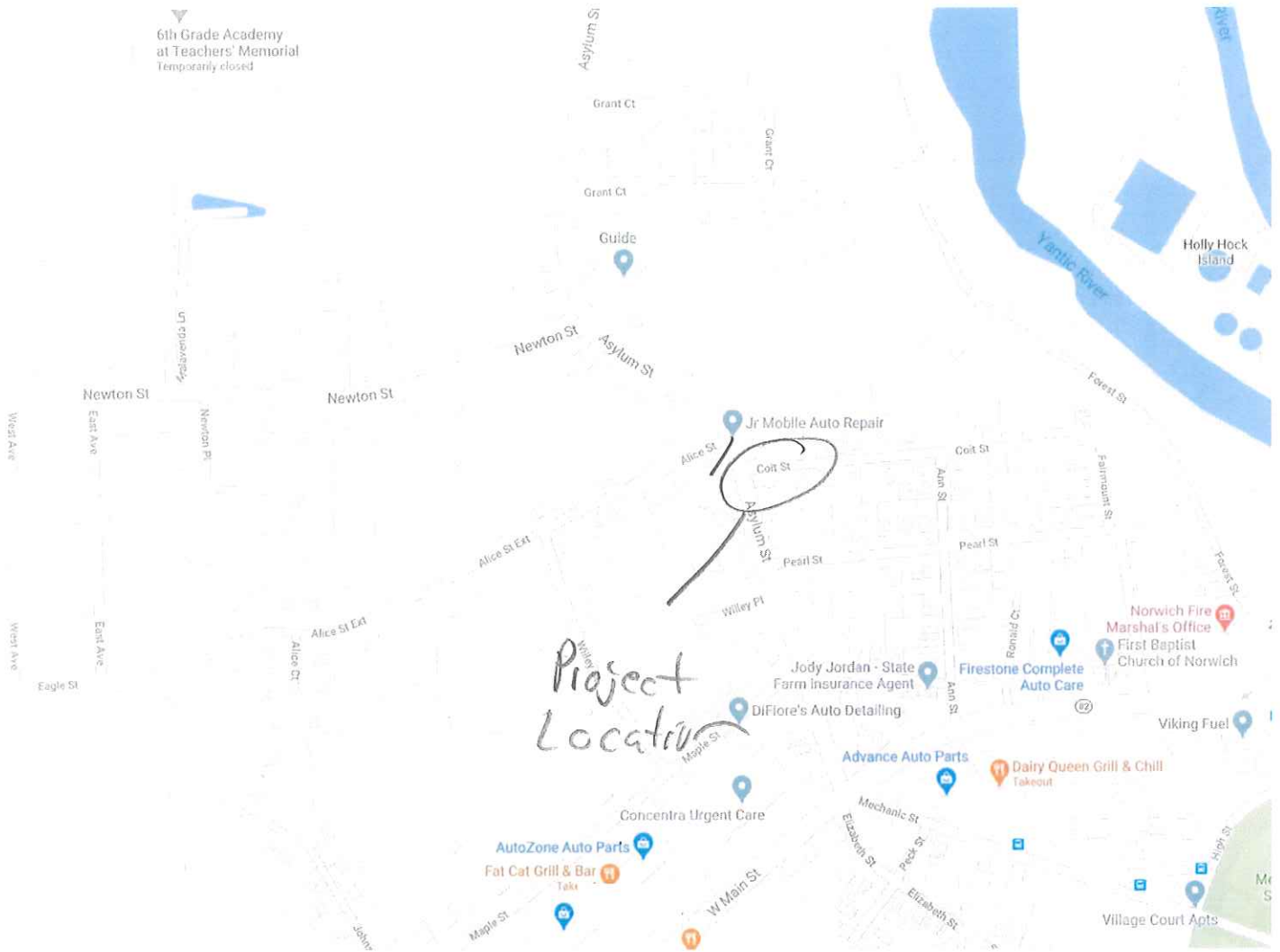
City of Norwich
Office of Development
23 Union Street
Norwich, CT 06360
(860) 823-3770
Wayne R. Sharkey, Property Rehabilitation, Program Manager
Office hours: Monday – Friday 8:30 am – 4:30 pm

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.



6th Grade Academy
at Teachers' Memorial
Temporarily closed

Project
Location

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 & General Rehabilitation 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 _____, 2020. 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: _____

BASIC BID PACKAGE: Bid 2-Heating

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 _____, 2020. 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: _____

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. (2020)**

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Connecticut Lead Paint Solutions, LLC

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

Lead Paint Inspections & Testing
Abatement/Management Plans
Consulting & Cost Analysis
www.ctleadpaint.com
Since 1994

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;
54 Coit St
Norwich, CT 06360

Owner; Lubana Manun

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 and after four hours of testing, 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 March 05, 2020.

The property inspected is a single-family house built in 1931. All interior rooms or areas were fully inspected including the Basement Stairs and all areas in the basement.

↓ A

All the interior surfaces tested in the house were negative for lead-based paint (LBP), except for some wood trim in the Basement Stairs and the interior of the two wood Attic windows. At least one of the positive surfaces was defective.

All window sashes (the part of the window which contains the glass and is movable) in the house have been replaced with either vinyl replacement units, including those in the basement and excluding the prior mentioned wood Attic windows.

The exterior of the house is primarily 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. Some positive surfaces were also defective.

The detached garage was tested on the exterior only. All painted surfaces tested on the original garage were positive for LBP and most were defective. All surfaces on the garage side addition were negative for LBP.

Lead in Dust and Soil Assessment

Seven dust wipe samples were collected for analysis of lead concentrations by an accredited laboratory. Two dust wipe samples (DW-6 and 7) were over the limits set by HUD 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. I am using the floor limits for the Attic Stair tread (DW-7). These samples were collected in accordance with the collection protocol as stated in the HUD Guidelines.

Three soil sample was collected for analysis of lead concentrations by an accredited laboratory. The composite sample collected from the B side garden along the driveway and a sample collected from the potted lemon tree in Room #2 were 420 and 430ppm.

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 corrective action will be required at this site.

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
March 13, 2020

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 (1.0mg/cm ²) Negative meaning below the action level of 1.0mg/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 1.0mg/cm² 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.

54 Coit St, Norwich, CT 06360

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
1				Calibration- Surface			1.53mg/cm ²	Positive	1.50 ± 0.10
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 ± 0.02
6	1st	Foyer	A	Door Casing	Wood	Varnish	Intact	Negative	0.01 ± 0.03
7	1st	Foyer	A	Door Jamb	Wood	Varnish	Intact	Negative	0.03 ± 0.05
8	1st	Foyer	A	Door Casing	Wood	Varnish	Intact	Negative	0.01 ± 0.04
9	1st	Foyer	C	Door	Wood	Varnish	Intact	Negative	0.06 ± 0.11
10	1st	Foyer	C	Door Jamb	Wood	Varnish	Intact	Negative	0.02 ± 0.02
11	1st	Foyer	D	Door Rht	Wood	Varnish	Intact	Negative	0.03 ± 0.06
12	1st	Foyer	D	Door Casing	Wood	Varnish	Intact	Negative	0.03 ± 0.07
13	1st	Foyer	B	Baseboard	Wood	Varnish	Intact	Negative	0.09 ± 0.14
14	1st	Foyer	D	Radiator	Metal	Gray	Poor	Negative	0.04 ± 0.05
15	1st	Foyer	D	Radiator	Metal	Gray	Poor	Negative	0.09 ± 0.13
16	1st	Foyer	A	Wall	Plaster	Blue	Intact	Negative	0.04 ± 0.02
17	1st	Foyer	B	Wall	Plaster	Blue	Intact	Negative	0.06 ± 0.05
18	1st	Foyer	C	Wall	Plaster	Blue	Intact	Negative	0.08 ± 0.06
19	1st	Foyer	D	Wall	Plaster	Blue	Intact	Negative	0.03 ± 0.03
20	1st	Foyer	C	Ceiling	Plaster	White	Intact	Negative	0.30 ± 0.17
21	1st	Room 1	A	Window Sill	Wood	Varnish	Intact	Negative	0.02 ± 0.03
22	1st	Room 1	A	Window Casing	Wood	Varnish	Intact	Negative	0.05 ± 0.11
23	1st	Room 1	B	Door Lft	Wood	Varnish	Intact	Negative	0.06 ± 0.12
24	1st	Room 1	B	Door Jamb	Wood	Varnish	Intact	Negative	0.01 ± 0.04
25	1st	Room 1	C	Opening Jamb	Wood	Varnish	Intact	Negative	0.05 ± 0.06
26	1st	Room 1	A	Baseboard	Wood	Varnish	Intact	Negative	0.02 ± 0.04
27	1st	Room 1	A	Radiator	Metal	Gray	Poor	Negative	0.06 ± 0.08
28	1st	Room 1	A	Wall	Plaster	Off-White	Fair	Negative	0.03 ± 0.03
29	1st	Room 1	B	Wall	Plaster	Off-White	Intact	Negative	0.03 ± 0.03
30	1st	Room 1	C	Wall	Plaster	Off-White	Intact	Negative	0.00 ± 0.02
31	1st	Room 1	D	Wall	Paneling	Off-White	Intact	Negative	0.00 ± 0.02
32	1st	Room 1	D	Ceiling Trim	Wood	Off-White	Intact	Negative	0.01 ± 0.02
35	1st	Room 1	B	Ceiling	Plaster	White	Intact	Negative	0.01 ± 0.03
36	1st	Room 1	D	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.03
37	1st	Room 2	C	Door	Wood	Varnish	Intact	Negative	0.00 ± 0.02
38	1st	Room 2	C	Door Jamb	Wood	Varnish	Intact	Negative	0.00 ± 0.02
39	1st	Room 2	C	Door Casing	Wood	Varnish	Intact	Negative	0.00 ± 0.02
40	1st	Room 2	B	Opening Casing	Wood	Varnish	Intact	Negative	0.06 ± 0.11
41	1st	Room 2	A	Opening Jamb	Wood	Varnish	Intact	Negative	0.03 ± 0.05
42	1st	Room 2	B	Baseboard	Wood	Varnish	Intact	Negative	0.02 ± 0.04
43	1st	Room 2	C	Radiator	Metal	Silver	Fair	Negative	0.04 ± 0.03
44	1st	Room 2	A	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
45	1st	Room 2	B	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
46	1st	Room 2	C	Wall	Plaster	White	Intact	Negative	0.02 ± 0.03
47	1st	Room 2	D	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
48	1st	Room 2	D	Ceiling	Plaster	White	Intact	Negative	0.07 ± 0.11
49	1st	Room 2	B	Floor	Wood	Varnish	Intact	Negative	0.01 ± 0.02
50	1st	Pantry	C	Window Sill	Wood	White	Intact	Negative	0.10 ± 0.29
51	1st	Pantry	C	Window Casing	Wood	White	Intact	Negative	0.00 ± 0.02
52	1st	Pantry	D	Window Sill	Wood	White	Poor	Negative	0.05 ± 0.15
53	1st	Pantry	D	Window Casing	Wood	White	Intact	Negative	0.00 ± 0.02
54	1st	Pantry	A	Opening Casing	Wood	White	Intact	Negative	0.02 ± 0.06

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
55	1st	Pantry	B	Cabinet Door Lwr	Wood	Varnish	Intact	Negative	0.02 ± 0.06
56	1st	Pantry	B	Cabinet Body	Wood	Varnish	Intact	Negative	0.04 ± 0.08
57	1st	Pantry	B	Cabinet Shelf Lwr	Wood	Unpainted	Intact	Negative	0.00 ± 0.02
58	1st	Pantry	B	Cabinet Door Upr	Wood	Varnish	Intact	Negative	0.02 ± 0.05
59	1st	Pantry	B	Cabinet Shelf	Wood	Varnish	Intact	Negative	0.00 ± 0.02
60	1st	Pantry	B	Cabinet Wall	Wood	White	Intact	Negative	0.01 ± 0.02
61	1st	Pantry	C	Wall - Lower	Pandling	Beige	Intact	Negative	0.00 ± 0.02
62	1st	Pantry	D	Wall - Lower	Pandling	Beige	Intact	Negative	0.00 ± 0.02
64	1st	Pantry	B	Wall - Upper	Plaster	Beige	Intact	Negative	0.09 ± 0.03
65	1st	Pantry	C	Wall - Upper	Plaster	Beige	Intact	Negative	0.07 ± 0.02
66	1st	Pantry	D	Wall - Upper	Plaster	Beige	Intact	Negative	0.16 ± 0.07
67	1st	Pantry	B	Ceiling	Plaster	Beige	Intact	Negative	0.00 ± 0.02
69	1st	Pantry	B	Cabinet Ceiling	Plaster	Beige	Peeling	Negative	0.01 ± 0.02
70	1st	Bath 1	B	Window Sill	Wood	White	Intact	Negative	0.00 ± 0.02
71	1st	Bath 1	B	Window Casing	Wood	White	Intact	Negative	0.03 ± 0.07
72	1st	Bath 1	A	Door	Wood	Beige	Intact	Negative	0.02 ± 0.05
73	1st	Bath 1	A	Door Jamb	Wood	White	Intact	Negative	0.02 ± 0.02
74	1st	Bath 1	B	Radiator	Wood	White	Intact	Negative	0.04 ± 0.12
75	1st	Bath 1	A	Wall	Plaster	Beige	Intact	Negative	0.00 ± 0.02
76	1st	Bath 1	B	Wall	Drywall	Beige	Intact	Negative	0.00 ± 0.02
77	1st	Bath 1	C	Wall	Drywall	Beige	Intact	Negative	0.00 ± 0.02
78	1st	Bath 1	D	Wall	Drywall	Beige	Intact	Negative	0.00 ± 0.02
79	1st	Bath 1	A	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
80	1st	Kitchen	B	Window Sill	Wood	White	Intact	Negative	0.01 ± 0.02
81	1st	Kitchen	B	Window Casing	Wood	White	Intact	Negative	0.08 ± 0.10
82	1st	Kitchen	A	Door Lft	Wood	Beige	Intact	Negative	0.02 ± 0.04
83	1st	Kitchen	A	Door Jamb	Wood	White	Intact	Negative	0.01 ± 0.03
84	1st	Kitchen	A	Door Rht	Wood	Beige	Intact	Negative	0.01 ± 0.03
85	1st	Kitchen	A	Door Casing	Wood	White	Intact	Negative	0.01 ± 0.04
86	1st	Kitchen	C	Door Lft	Wood	Beige	Intact	Negative	0.01 ± 0.03
88	1st	Kitchen	C	Door Jamb	Wood	White	Intact	Negative	0.17 ± 0.42
89	1st	Kitchen	C	Opening Jamb	Wood	White	Intact	Negative	0.02 ± 0.07
90	1st	Kitchen	D	Opening Jamb	Wood	White	Intact	Negative	0.02 ± 0.04
91	1st	Kitchen	A	Chair Rail	Wood	White	Intact	Negative	0.00 ± 0.02
92	1st	Kitchen	A	Wall - Lower	Wood	Beige	Intact	Negative	0.02 ± 0.06
93	1st	Kitchen	B	Wall - Lower	Wood	Beige	Intact	Negative	0.01 ± 0.04
94	1st	Kitchen	D	Wall - Lower	Wood	Beige	Poor	Negative	0.05 ± 0.09
96	1st	Kitchen	A	Wall - Upper	Plaster	Beige	Intact	Negative	0.08 ± 0.05
97	1st	Kitchen	B	Wall	Plaster	Beige	Intact	Negative	0.00 ± 0.02
99	1st	Kitchen	C	Wall	Plaster	Beige	Intact	Negative	0.11 ± 0.06
100	1st	Kitchen	D	Wall	Plaster	Beige	Intact	Negative	0.08 ± 0.05
101	1st	Kitchen	C	Ceiling	Plaster	White	Intact	Negative	0.05 ± 0.03
102	1st	Kitchen	B	Cabinet Door Lwr	Wood	Brown	Fair	Negative	0.00 ± 0.02
103	1st	Kitchen	B	Cabinet Body	Wood	Brown	Intact	Negative	0.00 ± 0.02
104	1st	Kitchen	D	Cabinet Door Upr	Wood	Brown	Intact	Negative	0.04 ± 0.06
105	1st	Kitchen	D	Cabinet Body	Wood	Brown	Intact	Negative	0.04 ± 0.07
106	1st	Kitchen	D	Cabinet Shelf	Wood	Brown	Intact	Negative	0.00 ± 0.02
107	1st	Kitchen	D	Cooking Pot	Metal	Black	Fair	Negative	0.60 ± 0.30
108	1st	Kitchen	D	Cooking Pot	Metal	Black	Fair	Negative	0.03 ± 0.41
109	1st	Kitchen	D	Cooking Pot	Metal	Unpainted	Intact	Negative	0.60 ± 0.40
111	1st	Kitchen	D	Cooking Pot	Metal	Unpainted	Intact	Negative	0.00 ± 0.02
112	1st	Kitchen	D	Counter Top	Plastic	White	Intact	Negative	0.00 ± 0.02

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113	1st	Kitchen	D	Counter Top	Plastic	White	Intact	Negative	0.00 ± 0.02
114	1st	Stairwell	B	Stair Stringer	Wood	Varnish	Intact	Negative	0.04 ± 0.03
115	1st	Stairwell	B	Stair Tread	Wood	Varnish	Intact	Negative	0.00 ± 0.02
116	1st	Stairwell	C	Stair Riser	Wood	Varnish	Intact	Negative	0.04 ± 0.11
117	1st	Stairwell	D	Stair Railing	Wood	Varnish	Intact	Negative	0.00 ± 0.02
119	1st	Stairwell	D	Stair Baluster	Wood	Varnish	Intact	Negative	0.03 ± 0.07
121	2nd	Stairwell	D	Stair Newel Post	Wood	Varnish	Intact	Negative	0.02 ± 0.04
122	2nd	Stairwell	B	Window Sill	Wood	Varnish	Intact	Negative	0.04 ± 0.04
123	2nd	Stairwell	B	Window Casing	Wood	Varnish	Intact	Negative	0.02 ± 0.04
124	2nd	Stairwell	B	Wall	Plaster	Blue	Intact	Null	0.90 ± 0.80
125	2nd	Stairwell	B	Wall	Plaster	Blue	Intact	Negative	0.02 ± 0.02
126	2nd	Stairwell	C	Wall	Plaster	Blue	Intact	Negative	0.01 ± 0.02
127	2nd	Stairwell	D	Wall	Plaster	Blue	Intact	Negative	0.04 ± 0.03
128	2nd	Stairwell	A	Ceiling	Plaster	White	Intact	Negative	0.01 ± 0.04
129	2nd	Hall	A	Door	Wood	Varnish	Intact	Negative	0.01 ± 0.03
130	2nd	Hall	A	Door Casing	Wood	Varnish	Intact	Negative	0.03 ± 0.07
131	2nd	Hall	C	Door Rht	Wood	Varnish	Intact	Negative	0.01 ± 0.04
133	2nd	Hall	C	Door Jamb	Wood	Varnish	Intact	Negative	0.02 ± 0.05
134	2nd	Hall	A	Baseboard	Wood	Varnish	Intact	Negative	0.02 ± 0.02
135	2nd	Hall	A	Wall	Plaster	Blue	Intact	Negative	0.02 ± 0.02
136	2nd	Hall	C	Wall	Plaster	Blue	Intact	Negative	0.00 ± 0.02
137	2nd	Hall	D	Wall	Plaster	Blue	Intact	Negative	0.07 ± 0.06
139	2nd	Hall	D	Ceiling	Plaster	White	Intact	Negative	0.24 ± 0.11
140	2nd	Hall	B	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.02
141	2nd	Room 3	A	Window Sill	Wood	White	Intact	Negative	0.02 ± 0.04
142	2nd	Room 3	A	Window Casing	Wood	White	Intact	Negative	0.60 ± 0.30
143	2nd	Room 3	A	Window Casing	Wood	White	Intact	Null	0.50 ± 1.20
144	2nd	Room 3	A	Window Casing	Wood	White	Intact	Negative	0.03 ± 0.03
145	2nd	Room 3	C	Door	Wood	White	Intact	Negative	0.40 ± 0.40
146	2nd	Room 3	C	Door Casing	Wood	White	Intact	Negative	0.03 ± 0.07
147	2nd	Room 3	B	Closet Door	Wood	White	Intact	Null	0.50 ± 1.10
148	2nd	Room 3	B	Closet Door	Wood	White	Intact	Negative	0.01 ± 0.03
149	2nd	Room 3	B	Closet Jamb	Wood	White	Intact	Negative	0.01 ± 0.02
150	2nd	Room 3	B	Closet Cleat	Wood	Blue	Intact	Negative	0.30 ± 0.31
151	2nd	Room 3	B	Closet Baseboard	Wood	Varnish	Intact	Negative	0.00 ± 0.02
152	2nd	Room 3	B	Closet Wall	Plaster	Blue	Intact	Negative	0.02 ± 0.03
153	2nd	Room 3	A	Baseboard	Wood	White	Intact	Negative	0.02 ± 0.03
154	2nd	Room 3	A	Radiator	Metal	Silver	Poor	Negative	0.04 ± 0.05
155	2nd	Room 3	A	Wall	Plaster	Blue	Intact	Negative	0.01 ± 0.02
156	2nd	Room 3	B	Wall	Plaster	Blue	Intact	Negative	0.00 ± 0.02
157	2nd	Room 3	C	Wall	Plaster	Blue	Intact	Negative	0.06 ± 0.06
158	2nd	Room 3	D	Wall	Plaster	Blue	Intact	Negative	0.00 ± 0.02
159	2nd	Room 3	C	Ceiling	Plaster	White	Intact	Negative	0.00 ± 0.02
160	2nd	Room 3	A	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.02
161	2nd	Room 4	B	Window Sill	Wood	White	Intact	Negative	0.03 ± 0.10
162	2nd	Room 4	B	Window Casing	Wood	White	Intact	Negative	0.06 ± 0.16
163	2nd	Room 4	C	Window Sill	Wood	White	Intact	Negative	0.12 ± 0.16
164	2nd	Room 4	C	Window Stop	Wood	White	Intact	Null	0.80 ± 1.30
165	2nd	Room 4	C	Window Stop	Wood	White	Intact	Negative	0.07 ± 0.07
166	2nd	Room 4	A	Door	Wood	White	Intact	Negative	0.01 ± 0.02
167	2nd	Room 4	A	Door Casing	Wood	White	Intact	Negative	0.06 ± 0.14
168	2nd	Room 4	D	Door	Wood	White	Intact	Negative	0.01 ± 0.04

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169	2nd	Room 4	D	Door Jamb	Wood	White	Intact	Negative	0.01 ± 0.04
170	2nd	Room 4	B	Baseboard	Wood	White	Intact	Negative	0.03 ± 0.08
171	2nd	Room 4	C	Radiator	Metal	Silver	Poor	Negative	0.03 ± 0.05
172	2nd	Room 4	A	Wall	Plaster	White	Intact	Negative	0.17 ± 0.14
173	2nd	Room 4	B	Wall	Plaster	White	Intact	Negative	0.13 ± 0.09
174	2nd	Room 4	C	Wall	Plaster	White	Intact	Negative	0.10 ± 0.07
175	2nd	Room 4	D	Wall	Plaster	White	Intact	Negative	0.07 ± 0.06
178	2nd	Room 4	C	Ceiling	Plaster	White	Intact	Negative	0.00 ± 0.02
179	2nd	Room 4	A	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.02
180	2nd	Attic Stairs	B	Door	Wood	Varnish	Intact	Negative	0.02 ± 0.05
181	2nd	Attic Stairs	B	Door Jamb	Wood	Varnish	Intact	Negative	0.04 ± 0.08
182	2nd	Attic Stairs	D	Stair Tread	Wood	Gray	Poor	Negative	0.10 ± 0.05
183	2nd	Attic Stairs	D	Stair Tread	Wood	Gray	Poor	Negative	0.10 ± 0.13
184	2nd	Attic Stairs	A	Stair Riser	Wood	Gray	Fair	Negative	0.15 ± 0.18
185	2nd	Attic Stairs	B	Stair Wallcasing	Wood	Beige	Intact	Negative	0.13 ± 0.11
186	2nd	Attic Stairs	B	Wall	Plaster	Beige	Damaged	Negative	0.10 ± 0.02
187	2nd	Attic Stairs	C	Wall	Plaster	Beige	Poor	Negative	0.07 ± 0.03
188	2nd	Attic Stairs	D	Wall	Plaster	Beige	Poor	Negative	0.11 ± 0.02
189	Attic	Attic	A	Wind. Sash Int. R	Wood	White	Intact	Positive	1.80 ± 0.70
190	Attic	Attic	A	Wind. Sash Int. L	Wood	White	Intact	Positive	2.00 ± 0.70
191	Attic	Attic	Cr	Chimney	Concrete	Unpainted	Intact	Negative	0.00 ± 0.02
192	2nd	Room 5	C	Window Sill	Wood	Varnish	Intact	Negative	0.06 ± 0.10
193	2nd	Room 5	C	Window Casing	Wood	Varnish	Intact	Negative	0.00 ± 0.02
194	2nd	Room 5	D	Window Sill	Wood	Varnish	Intact	Negative	0.03 ± 0.04
195	2nd	Room 5	D	Window Casing	Wood	Varnish	Intact	Null	0.80 ± 1.40
196	2nd	Room 5	D	Window Casing	Wood	Varnish	Intact	Negative	0.00 ± 0.02
198	2nd	Room 5	A	Door	Wood	Varnish	Intact	Negative	0.60 ± 0.40
199	2nd	Room 5	A	Door Jamb	Wood	Varnish	Intact	Negative	0.04 ± 0.09
201	2nd	Room 5	B	Closet Door	Wood	Varnish	Intact	Negative	0.01 ± 0.02
202	2nd	Room 5	B	Closet Casing	Wood	Varnish	Intact	Negative	0.10 ± 0.16
203	2nd	Room 5	B	Closet Baseboard	Wood	Varnish	Intact	Negative	0.01 ± 0.03
204	2nd	Room 5	B	Closet Wall	Plaster	Blue	Intact	Negative	0.02 ± 0.02
205	2nd	Room 5	C	Baseboard	Wood	Varnish	Intact	Negative	0.02 ± 0.05
206	2nd	Room 5	C	Radiator	Metal	Varnish	Intact	Negative	0.02 ± 0.03
207	2nd	Room 5	A	Wall	Plaster	Blue	Intact	Negative	0.14 ± 0.04
208	2nd	Room 5	B	Wall	Plaster	Blue	Intact	Negative	0.15 ± 0.04
209	2nd	Room 5	C	Wall	Plaster	Blue	Intact	Negative	0.13 ± 0.03
210	2nd	Room 5	D	Wall	Plaster	Blue	Intact	Negative	0.15 ± 0.04
211	2nd	Room 5	A	Ceiling	Plaster	White	Intact	Negative	0.01 ± 0.02
212	2nd	Room 5	C	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.02
213	2nd	Room 5	B	Filing Cabinet	Metal	Beige	Intact	Negative	0.14 ± 0.43
214	2nd	Bath 2	D	Window Sill	Wood	White	Intact	Negative	0.01 ± 0.03
215	2nd	Bath 2	D	Window Casing	Wood	White	Intact	Negative	0.50 ± 0.40
216	2nd	Bath 2	B	Door	Wood	White	Intact	Negative	0.30 ± 0.40
217	2nd	Bath 2	B	Door Jamb	Wood	White	Intact	Negative	0.30 ± 0.17
218	2nd	Bath 2	B	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
219	2nd	Bath 2	D	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
220	2nd	Bath 2	D	Post	Wood	White	Intact	Negative	0.00 ± 0.02
221	2nd	Bath 2	B	Closet Baseboard	Wood	Beige	Intact	Negative	0.00 ± 0.02
222	2nd	Bath 2	B	Closet Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
223	2nd	Bath 2	B	Closet Shelf	Wood	White	Intact	Negative	0.00 ± 0.02
224	2nd	Bath 2	A	Closet Wall	Drywall	Beige	Intact	Negative	0.00 ± 0.02

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
225	2nd	Bath 2	D	Radiator	Metal	Silver	Fair	Negative	0.02 ± 0.04
226	2nd	Bath 2	A	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
227	2nd	Bath 2	B	Wall	Drywall	White	Intact	Negative	0.40 ± 0.50
228	2nd	Bath 2	C	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
229	2nd	Bath 2	D	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
230	2nd	Bath 2	B	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
231	2nd	Room 3	C	Vase	Ceramic	Green	Intact	Negative	0.11 ± 0.05
233	1st	Kitchen		Skillet 1	Metal	Black	Intact	Negative	0.00 ± 0.02
234	1st	Kitchen		Skillet 2	Metal	Black	Intact	Negative	0.00 ± 0.02
235	1st	Kitchen		Skillet 2	Metal	Black	Intact	Negative	0.00 ± 0.02
236	1st	Kitchen		Skillet 3	Metal	Black	Intact	Negative	0.00 ± 0.02
237	1st	Kitchen		Cooking Pot	Metal	Black	Intact	Negative	0.00 ± 0.02
238	1st	Kitchen		Cooking Pot	Metal	Black	Intact	Negative	0.00 ± 0.02
239	1st			Vase	Wood	Red	Intact	Negative	0.00 ± 0.02
240	1st			Vase	Wood	Red	Intact	Negative	0.02 ± 0.04
241	1st	Base. Stairs	C	Door	Wood	White	Intact	Negative	0.00 ± 0.02
242	1st	Base. Stairs	C	Door Jamb	Wood	White	Intact	Positive	1.50 ± 0.40
243	1st	Base. Stairs	C	Door Jamb	Wood	White	Intact	Positive	1.30 ± 0.30
244	1st	Base. Stairs	C	Door Casing	Wood	White	Intact	Positive	1.30 ± 0.30
245	1st	Base. Stairs	D	Stair Railing	Wood	White	Intact	Null	0.50 ± 1.10
246	1st	Base. Stairs	D	Stair Railing	Wood	White	Intact	Negative	0.00 ± 0.02
247	1st	Base. Stairs	B	Door	Metal	White	Intact	Negative	0.00 ± 0.02
248	1st	Base. Stairs	B	Door Jamb	Wood	White	Poor	Negative	0.00 ± 0.02
249	1st	Base. Stairs	B	Door Casing	Wood	White	Poor	Positive	2.00 ± 0.80
250	1st	Base. Stairs	B	Door Casing	Wood	White	Poor	Positive	1.40 ± 0.30
251	1st	Base. Stairs	B	Ledge	Wood	White	Intact	Negative	0.00 ± 0.02
252	1st	Base. Stairs	B	Ledge Baseboard	Wood	White	Intact	Positive	2.90 ± 1.70
253	1st	Base. Stairs	B	Ledge Baseboard	Wood	White	Intact	Positive	2.20 ± 0.90
254	1st	Base. Stairs	B	Wall - Upper L	Plaster	Orange	Intact	Negative	0.03 ± 0.02
255	1st	Base. Stairs	B	Wall - Upper R	Plaster	Orange	Intact	Negative	0.07 ± 0.04
256	1st	Base. Stairs	D	Wall	Plaster	Orange	Intact	Negative	0.04 ± 0.02
257	1st	Base. Stairs	A	Ceiling	Plaster	White	Intact	Negative	0.08 ± 0.05
260	Base.	Base. Stairs	B	Door Threshold	Concrete	White	Poor	Negative	0.00 ± 0.02
261	Base.	Base. Stairs	B	Door Threshold	Wood	White	Poor	Negative	0.00 ± 0.02
262	Base.	Base. Stairs	D	Stair Railing	Wood	White	Intact	Negative	0.00 ± 0.02
263	Base.	Base. Stairs	D	Stair Railing	Wood	White	Intact	Negative	0.00 ± 0.02
264	Base.	Base. Stairs	D	Stair Baluster	Wood	White	Intact	Negative	0.00 ± 0.02
265	Base.	Base. Stairs	D	Stair Wall Trim	Wood	White	Intact	Negative	0.00 ± 0.02
266	Base.	Base. Stairs	A	Cabinet Door	Wood	White	Intact	Negative	0.00 ± 0.02
267	Base.	Base. Stairs	A	Cabinet Body	Wood	White	Intact	Negative	0.00 ± 0.02
268	Base.	Base. Stairs	A	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
269	Base.	Base. Stairs	B	Wall - Lower	Drywall	Orange	Intact	Negative	0.00 ± 0.02
270	Base.	Base. Stairs	A	Ceiling	Plaster	White	Intact	Negative	0.05 ± 0.04
271	Base.	Room 6	D	Window Sill Rht	Plywood	White	Intact	Negative	0.00 ± 0.02
272	Base.	Room 6	D	Window Casing	Wood	White	Intact	Negative	0.00 ± 0.02
273	Base.	Room 6	C	Door (to Basement)	Wood	White	Intact	Negative	0.00 ± 0.02
274	Base.	Room 6	C	Door Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
275	Base.	Room 6	C	Closet Door	Wood	White	Intact	Negative	0.00 ± 0.02
276	Base.	Room 6	C	Closet Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
277	Base.	Room 6	C	Closet Wall	Drywall	Orange	Intact	Negative	0.00 ± 0.02
278	Base.	Room 6	B	Cabinet Door Lwr	Wood	White	Intact	Negative	0.00 ± 0.02
279	Base.	Room 6	B	Cabinet Body	Wood	White	Intact	Negative	0.00 ± 0.02

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280	Base.	Room 6	B	Cabinet Shelf	Wood	White	Intact	Negative	0.00 ± 0.02
281	Base.	Room 6	B	Cabinet Door Upr	Wood	White	Intact	Negative	0.00 ± 0.02
282	Base.	Room 6	B	Counter Top	Wood	White	Intact	Negative	0.00 ± 0.02
283	Base.	Room 6	D-A	Cabinet Door Lwr	Wood	White	Intact	Negative	0.00 ± 0.02
284	Base.	Room 6	D-A	Cabinet Body	Wood	White	Intact	Negative	0.00 ± 0.02
285	Base.	Room 6	D-A	Cabinet Shelf	Wood	White	Intact	Negative	0.00 ± 0.02
286	Base.	Room 6	C	Radiator	Wood	White	Intact	Negative	0.00 ± 0.02
287	Base.	Room 6	C	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
288	Base.	Room 6	C	Bookcase Shelf	Wood	White	Intact	Negative	0.00 ± 0.02
289	Base.	Room 6	D	Counter Top	Plywood	White	Intact	Negative	0.00 ± 0.02
290	Base.	Room 6	A	Wall	Drywall	Orange	Intact	Negative	0.00 ± 0.02
291	Base.	Room 6	B	Wall	Drywall	Orange	Intact	Negative	0.00 ± 0.02
292	Base.	Room 6	C	Wall	Drywall	Orange	Intact	Negative	0.01 ± 0.02
293	Base.	Room 6	D	Wall	Drywall	Orange	Intact	Negative	0.01 ± 0.02
294	Base.	Basement	A	Wall	Concrete	White	Intact	Negative	0.00 ± 0.02
295	Base.	Basement	C	Wall	Concrete	White	Peeling	Negative	0.00 ± 0.02
296	Base.	Basement	C	Picture	Wood	Blue	Fair	Negative	0.05 ± 0.15
297		Exterior	A	Door	Wood	Varnish	Intact	Negative	0.07 ± 0.08
298		Exterior	A	Door	Wood	Varnish	Intact	Negative	0.06 ± 0.10
299		Exterior	A	Door Jamb	Wood	White	Defective	Positive	18.30 ± 7.70
300		Exterior	A	Door Threshold	Wood	Brown	Defective	Positive	4.60 ± 2.20
301		Exterior	A	Porch Column Ctr	Wood	Beige	Defective	Positive	21.10 ± 5.20
302		Exterior	A	Porch Column Base	Wood	Beige	Defective	Positive	3.90 ± 2.10
303		Exterior	A	Porch Rail Cap	Wood	Beige	Defective	Positive	1.90 ± 0.80
304		Exterior	A	Porch Rail Cap D	Wood	Beige	Defective	Positive	2.10 ± 0.80
305		Exterior	A	Porch Ceiling	Wood	Beige	Defective	Negative	0.40 ± 0.30
306		Exterior	A	Porch Ceiling	Wood	Beige	Defective	Positive	7.80 ± 4.50
307		Exterior	A	Porch Ceiling Ctr	Wood	Beige	Defective	Positive	10.80 ± 5.20
308		Exterior	A	Porch Floor	Wood	Brown	Defective	Negative	0.02 ± 0.04
309		Exterior	A	Porch Floor	Wood	Brown	Defective	Negative	0.01 ± 0.03
310		Exterior	A	Porch Floor	Wood	Brown	Defective	Negative	0.02 ± 0.07
311		Exterior	B	Stair Riser	Wood	Brown	Defective	Negative	0.00 ± 0.02
312		Exterior	B	Stair Tread	Wood	Brown	Poor	Negative	0.00 ± 0.02
313		Exterior	B	Stair Railing	Wood	Brown	Intact	Negative	0.00 ± 0.02
314		Exterior	B	Door	Metal	White	Intact	Negative	0.00 ± 0.02
315		Exterior	B	Cell. Window Sill	Wood	Brown	Poor	Negative	0.03 ± 0.04
316		Exterior	C	Door	Wood	Brown	Poor	Negative	0.00 ± 0.02
317		Exterior	C	Door Casing	Wood	Brown	Poor	Negative	0.00 ± 0.02
318		Exterior	C	Deck Floor	Wood	Tan	Peeling	Negative	0.00 ± 0.02
319		Exterior	C	Deck Baluster	Wood	Gray	Fair	Negative	0.00 ± 0.02
320		Exterior	C	Deck Rail Cap	Wood	Gray	Poor	Negative	0.00 ± 0.02
321		Exterior	C	Fence	Wood	Gray	Fair	Negative	0.00 ± 0.02
322		Exterior	C	Fence	Wood	Gray	Fair	Negative	0.00 ± 0.02
323		Exterior	D	Cell. Wind. Frame	Wood	Unpainted	Fair	Negative	0.00 ± 0.02
324		Exterior	D	Cell. Wind. Frame	Wood	Unpainted	Fair	Negative	0.00 ± 0.02
325		Garage Ext.	A	Door Lft 1	Wood	Beige	Defective	Positive	10.30 ± 5.30
326		Garage Ext.	A	Door Lft 2	Wood	Beige	Defective	Positive	12.30 ± 9.90
327		Garage Ext.	A	Door Rht 3	Wood	Beige	Defective	Positive	11.90 ± 5.60
328		Garage Ext.	A	Door Rht 4	Wood	Beige	Defective	Positive	10.40 ± 9.00
329		Garage Ext.	A	Door Casing	Wood	Brown	Defective	Positive	6.70 ± 2.70
330		Garage Ext.	A	Ext. Fascia	Wood	Brown	Intact	Positive	13.30 ± 6.10
331		Garage Ext.	A	Crown Molding	Wood	Brown	Defective	Positive	13.10 ± 1.90

54 Coit St, Norwich, CT 06360

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
332		Garage Ext.	B	Corner Trim	Wood	Brown	Defective	Positive	4.50 ± 2.30
333		Garage Ext.	B	Ext. Fascia	Wood	Brown	Intact	Positive	14.10 ± 6.30
334		Garage Ext.	B	Ext. Fascia	Wood	Brown	Defective	Positive	4.60 ± 3.10
335		Garage Ext.	B	Ext. Siding	Wood	Beige	Defective	Positive	10.10 ± 5.10
336		Garage Ext.	B	Window Sash Ext.	Wood	Beige	Defective	Positive	10.00 ± 5.20
337		Garage Ext.	C	Window Sash Ext. Rht	Wood	Beige	Defective	Positive	8.80 ± 4.80
338		Garage Ext.	C	Ext. Upper trim	Wood	Brown	Defective	Positive	14.10 ± 10.60
339		Garage Ext.	C	Ext. Fascia	Wood	Brown	Defective	Positive	3.20 ± 1.60
340		Garage Ext.	C	Ext. Siding	Wood	Beige	Defective	Positive	9.10 ± 4.90
341		Garage Ext.	D	Ext. Siding	Wood	Beige	Defective	Positive	8.90 ± 4.80
342		Garage Ext. Add.	D	Ext. Siding	Wood	Beige	Poor	Negative	0.00 ± 0.02
343		Garage Ext. Add.	D	Ext. Siding	Wood	Beige	Poor	Negative	0.00 ± 0.02
344		Garage Ext. Add.	D	Ext. Soffit	Wood	Brown	Intact	Negative	0.00 ± 0.02
345		Garage Ext. Add.	A	Door	Plywood	Beige	Poor	Negative	0.00 ± 0.02
346		Garage Ext. Add.	D	Ext. Fascia	Wood	Brown	Damaged	Negative	0.00 ± 0.02
348		Garage Ext. Add.	A	Ext. Fascia	Wood	Beige	Damaged	Negative	0.00 ± 0.02
349		Garage Ext. Add.	A	Ext. Siding	Wood	Beige	Peeling	Negative	0.00 ± 0.02
350				Calibration- Surface			1.53mg/cm ²	Positive	1.60 ± 0.20
351				Calibration- Buried			1.04mg/cm ²	Positive	1.10 ± 0.10
352				Calibration- Buried			1.04mg/cm ²	Positive	1.20 ± 0.10
353				Calibration- Buried			1.04mg/cm ²	Positive	1.00 ± 0.10
354				Calibration- Buried			0.01mg/cm ²	Negative	0.00 ± 0.02



Lead Dust Wipe Analysis Report

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

Report Number: 20-03-01270

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

Received Date: 03/09/2020
Analyzed Date: 03/11/2020
Reported Date: 03/11/2020

Project/Test Address: 20-0141; Norwich Pb - Manum Residence Assessment Tests; 54 Coit St; Norwich, CT 06106
Collection Date: 03/05/2020

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
20-03-01270-001	DW-1	A SIDE ROOM 1	FL	<5.00	1.00	<5.00	
20-03-01270-002	DW-2	A SIDE ROOM 1	SL	15.5	0.458	33.8	
20-03-01270-003	DW-3	A SIDE ROOM 1	WW	28.4	0.507	55.9	
20-03-01270-004	DW-4	C SIDE ROOM 4	FL	<5.00	1.00	<5.00	
20-03-01270-005	DW-5	C SIDE ROOM 4	SL	<5.00	0.601	<8.32	
20-03-01270-006	DW-6	C SIDE ROOM 4	WW	89.8	0.715	126	
20-03-01270-007	DW-7	C SIDE ATTIC STAIRS		37.3	0.889	42.0	

Environmental Hazards Services, L.L.C

Client Number: 07-1566
 Project/Test Address: 20-0141; Norwich Pb - Manum Residence
 Assessment Tests; 54 Coit St; Norwich, CT 06106

Report Number: 20-03-01270

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

Lead Hazard and Clearance Standards Table

Description	EPA - Effective 12/18/2019	HUD Grant Programs
Hazard Standard, Floors	≥ 10 µg/ft ²	≥ 10 µg/ft ²
Hazard Standard, Sills	≥ 100 µg/ft ²	≥ 100 µg/ft ²
Clearance, Floors	< 40 µg/ft ²	< 10 µg/ft ²
Clearance, Sills	< 250 µg/ft ²	< 100 µg/ft ²
Clearance, Troughs	< 400 µg/ft ²	< 100 µg/ft ²
Clearance, Porch Floors	Not Regulated	< 40 µg/ft ²

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	

20-03-01270



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

Due Date:
 03/11/2020
 (Wednesday)
 AE

ll

CHAIN OF CUSTODY FORM

Date: March 06, 2020
 Company Name: CT Lead Paint Solutions, LLC
 Address: 1245 Hebron Ave.
 City, State, Zip: Glastonbury, CT 06033
 Phone: 860-633-3330
 Project Name: Norwich Pb - Manum Residence
 Project Address: 54 Coit St, Norwich, CT 06106
 Project Number: 20-0141

E-mail to: andrew@ctleadpaint.com
 Date of Collection: March 05, 2020
 Assessment Tests

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**

17 Dec

Sample #	Area size/ Sq. inch	Location Sample and substrate	Room or area
DW-1	144.00	Floor, A side, wood	Room 1
DW-2	66.00	Window sill, A side; right, wood	Room 1
DW-3	73.00	Window well, A side, right, vinyl	Room 1
DW-4	144.00	Floor, C side, wood	Room 4
DW-5	86.50	Window sill, C side, wood	Room 4
DW-6	103.00	Window well, C side, vinyl	Room 4
DW-7	128.00	Stair tread, C side, wood	Attic Stairs
Collected	Andrew Miller	Signature <i>Andrew Miller</i>	Date: Mar. 06, 2020
Mailed by	Andrew Miller	Signature <i>Andrew Miller</i>	Date: Mar. 07, 2020
Received	<i>Frita Corbora</i>	<i>[Signature]</i>	Date: <i>3-9-2020</i> <i>@ 12:26pm</i>



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

Lead in Soil Analysis Report

Report Number: 20-03-01269

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

Received Date: 03/09/2020
Analyzed Date: 03/11/2020
Reported Date: 03/11/2020

Project/Test Address: 20-0141; Norwich Pb - Manum Residence Assessment Tests; 54 Coit St; Norwich, CT 06106
Collection Date: 03/05/2020

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
20-03-01269-001	SOIL-1	SOIL IN LEMON TREE POT ROOM 2	430	
20-03-01269-002	SOIL-2	BARE SOIL IN REAR GARDEN C SIDE X PATTERN	170	
20-03-01269-003	SOIL-3	SIDE GARDEN NEAR DRIVEWAY B SIDE	420	

Environmental Hazards Services, L.L.C

Client Number: 07-1566
Project/Test Address: 20-0141; Norwich Pb - Manum Residence Assessment Tests; 54 Coit St; Norwich, CT 06106

Report Number: 20-03-01269

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

20-03-01269



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

Due Date:
03/11/2020
(Wednesday)
AE

EL

CHAIN OF CUSTODY FORM

Date: March 07, 2020
Company Name: CT Lead Paint Solutions, LLC
Address: 1245 Hebron Ave.
City, State, Zip: Glastonbury, CT 06033
Phone: 860-633-3330
Project Name: Norwich Pb - Manum Residence Assessment Tests
Project Address: 54 Coit St, Norwich, CT 06106
Project Number: 20-0141
E-mail to: andrew@ctleadpaint.com
Date of Collection: March 05, 2020

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

Lead in Soil

1-3 *EL*

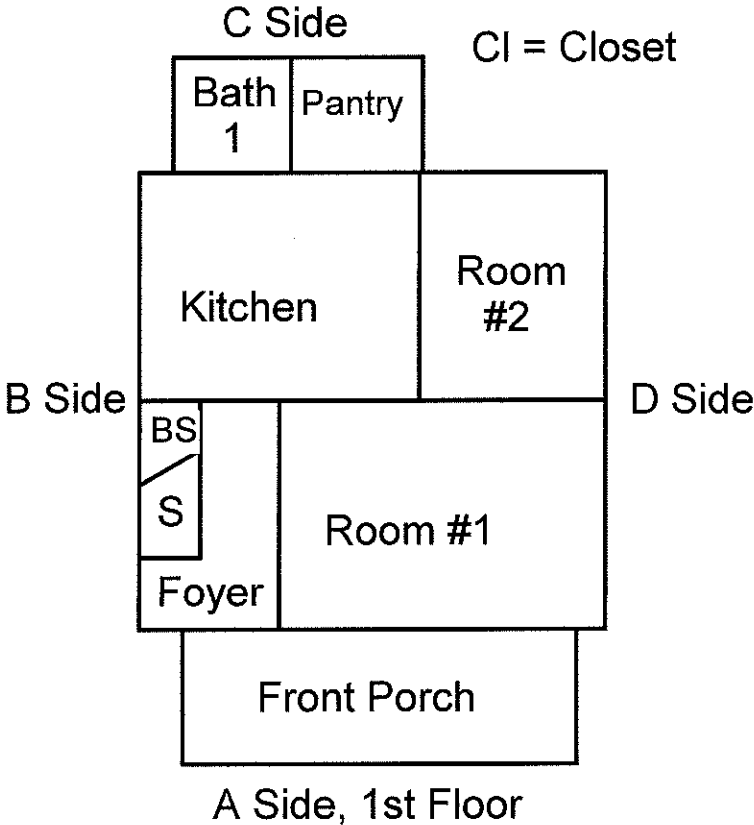
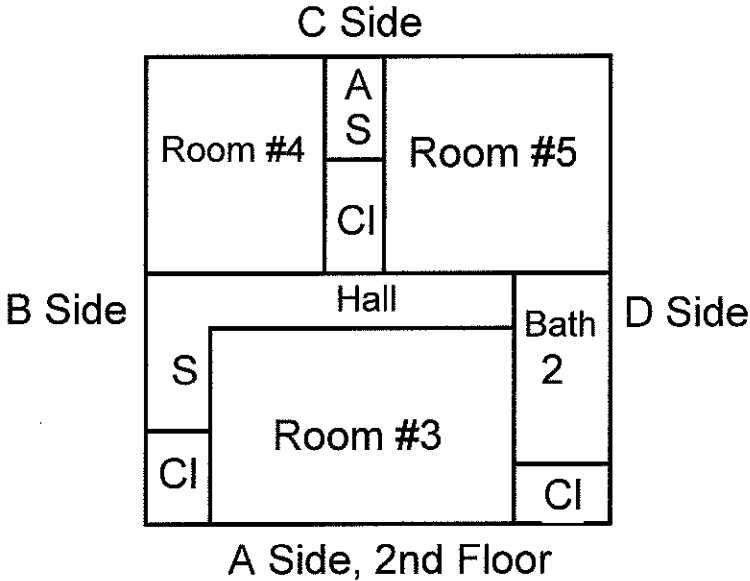
Sample #	Exterior Area	Location	Sample	Comments	Lab notes
Soil - 1	Collected from soil in lemon tree pot	Room 2		4 composite samples	
Soil - 2	Collected from bare soil in rear garden,	C side, X pattern		8 composite samples	
Soil - 3	Collected from side garden, near driveway	B side		7 composite samples	
				Lab, please mix sample	
Collected	Andrew Miller	Sign.	<i>Andrew Miller</i>	Date:	Mar. 05, 2020
Mailed by	Andrew Miller	Sign.	<i>Andrew Miller</i>	Date:	Mar. 07, 2020
Received by	<i>Enka Cardona</i>	Sign.	<i>EL</i>	Date:	<i>3-9-2020 @ 12:30pm</i>

Room #6 is the finished room
in the Basement

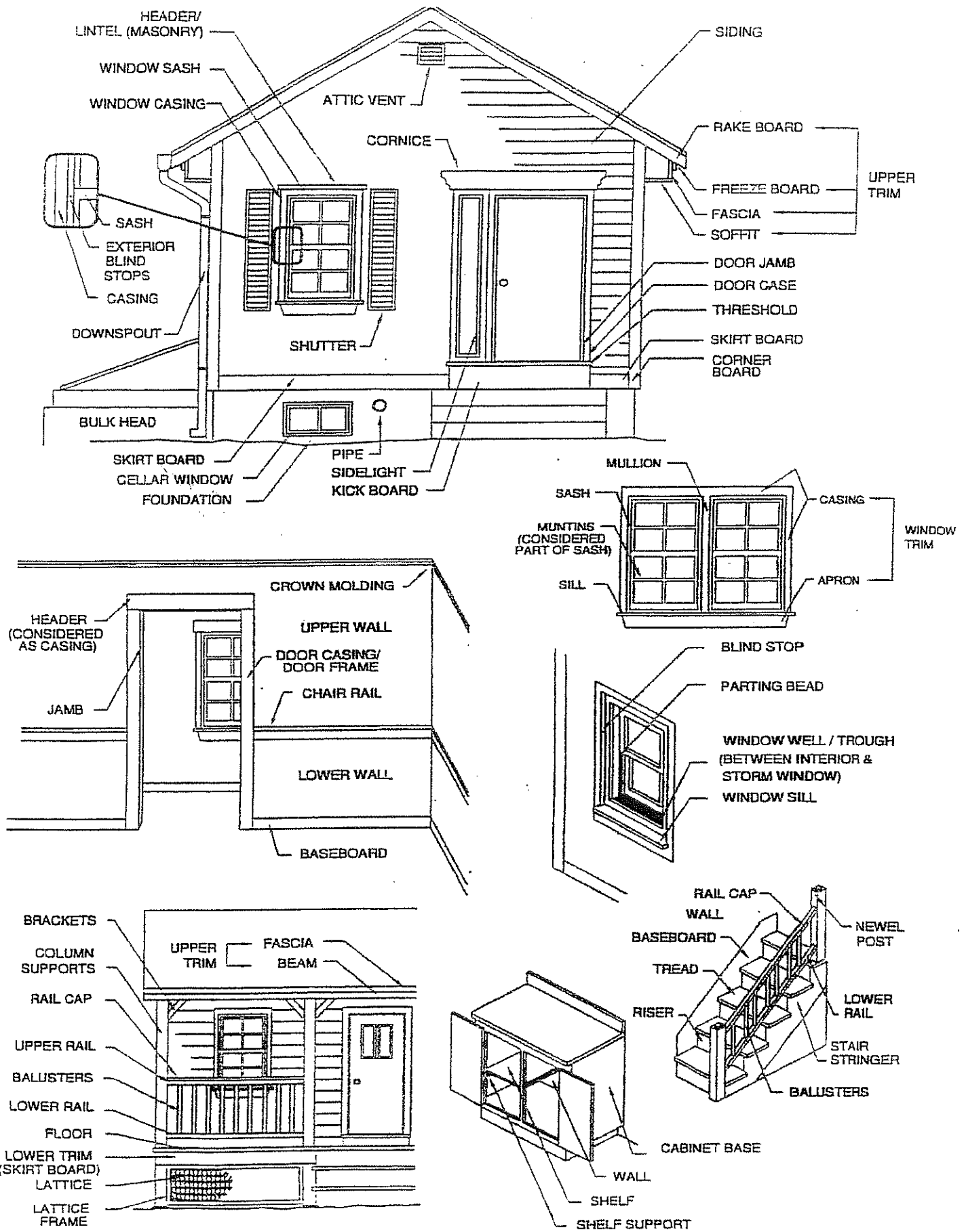
BS = Basement Stairs

AS = Attic Stairs

S = Stairwell



54 Coit St, Norwich, CT 06360



Connecticut Lead Paint Solutions, LLC

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

Lead Paint Inspections & Testing
Abatement/Management Plans
Consulting & Cost Analysis
www.ctleadpaint.com
Since 1994

Lead Abatement Plan for 54 Coit St Norwich, CT 06360

A. Background Information

This abatement plan was submitted on April 07, 2020.

Address of property to be abated;
54 Coit 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 License; #2124
Lead Inspector/Risk Assessor; Andrew Miller
Lead Inspector/Risk Assessor #002179
Date of inspection was March 05, 2020.

B. Owner/Owner Agent Information

The owner and agent of the house is;
Lubana Mamun
54 Coit St
Norwich, CT 06360
860-514-1675

C. Resident Information

At the time of the inspection at least one child under the age of Six years resided in the dwelling.
The occupants will be notified at least 5 days prior to starting any work.

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 windows and doors in detached garage with vinyl or metal replacement units, as needed.
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. **Rigid Encapsulation.** Cover positive exterior window trim and upper trim with aluminum. Cover positive wood clapboards with Tyvek and vinyl siding.
4. **Paint Removal.** Remove all paint from wood threshold. Test with XRF to ensure the lead levels are then below regulatory levels.

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 1931. 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, window sashes 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 himself, 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/ft ² (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
54 Coit St
Norwich, CT 06360

Room or Area	Component, number of components, Substrate	Location	Abatement Method	Comments
1st Floor				
Attic	Window sashes, 2, wood	A side	Replace with vinyl replacement unit	Match exist style
Basement Stairs	Door jamb, wood	C side	Remove all paint from all impact surfaces on the door jamb, test with XRF to ensure lead levels are below regulatory limits. Prime and paint.	
	Door casing, 1, wood	C side	Prepare and paint with 2 coats of an approved encapsulating paint.	
	Door casing, 1, wood	B side	Remove and replaced with new wood trim.	
	Ledge baseboards, 2 sections	B side	Prepare and paint with 2 coats of an approved encapsulating paint.	The ledge trim itself is neg. for LBP
Exterior	Door jamb, 1, wood	A side	Cover with aluminum trim. Add weather strip adjacent to door to over the aluminum edge.	
	Door threshold 1, wood	A side	Remove all paint from all surfaces on the door threshold, test with XRF to ensure lead levels are below regulatory limits. Varnish 2 coats	
	Porch columns, bases and rail caps, all, wood	A side	Prepare and paint with 2 coats of an approved encapsulating paint.	
	Porch ceiling, all, wood	All	Prepare and paint with 2 coats of an approved encapsulating paint.	Alt. Method; cover with vinyl bead board
Garage Ext.	Doors, 2, wood	A side	Remove and replace with metal OH door units. Reframe as needed and add supports for tracks, as needed.	Alt. Method; if it is not feasible to replace the wood doors with new doors. Prepare and encapsulate. Remove all paint from impact surfaces.

Abatement Sheet for 54 Coit St, Norwich, CT 06360

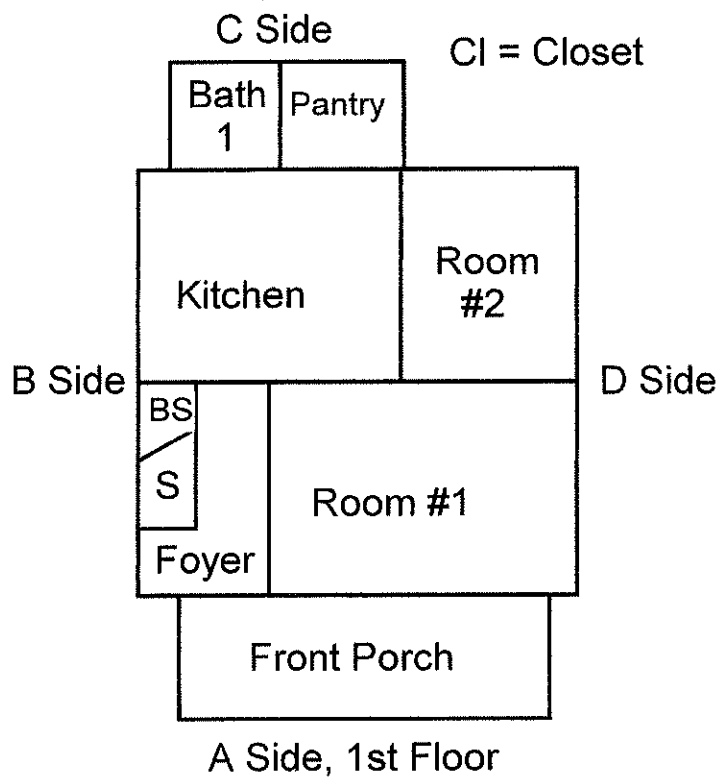
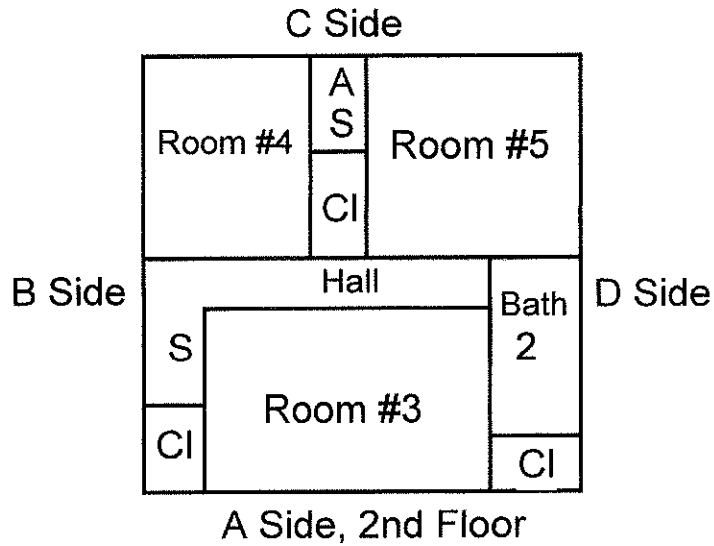
Room or Area	Component, number of components, Substrate	Location	Abatement Method	Comments
Garage Ext.	Window sashes, 3 or all, wood	B and C side	Remove and replace with vinyl replacement units	
	Wood siding and corner trim, all, wood	All sides of original garage	Cover with Tyvek and install vinyl siding. Color to be picked by owner	On the original garage, only
Side garden, between driveway and fence	Bare soil, all	B side	Remove 1" of soil, then turnover soil and re-test	The lead level was at 420ppm and should be below 400ppm.

Room #6 is the finished room
in the Basement

BS = Basement Stairs

AS = Attic Stairs

S = Stairwell



54 Coit St, Norwich, CT 06360

BY

REHABILITATION PROGRAM:

54 Coit Street

HEATING (General Instructions and requirements)

Existing heating system: Contractor to include removal and disposal of the existing Boiler and Cast Iron Radiators.

Contractor may utilize existing plumbing, pipes and fixtures only where they can ensure no impact to the existing sealed pipe insulation.

Where required contractors are to utilize a new (pex or equivalent product approved for installation of the new heating systems and connection to domestic hot water.

Project Specific Notes:

- Drain Oil tank/cap & leave in place.
- Contractor to identify and include in the Base bid any relocation of electrical outlets as may impact the installation of the new required for new baseboard installation.
- Install new baseboards as required.
(White/off white.)
- Basement Finished rooms-remove the two lengths of Electrical Baseboard and secure to code. Replace with hot water baseboard and zone separately.

Installation: (#1) new combination, on demand, natural gas fired, hot water heating unit "Stainless steel heat exchanger", (Three Zone configuration for each 1st, 2nd and

finished basement room, include new electronic thermostats for each zone.

Domestic Capacity (GPM)-Highest available for the sized unit.

Note: Floor penetrations left from removal of cast iron radiators and required chases for plumbing loops between floors will be patched by a future contract.

Basic Product Requirements

(Noritz, Navien, Rinnai, or approved equal.)

Direct vent with BTU/capacity based on a heat loss analysis or equivalent assessment approved by the local Building Department. Existing vent openings to chimneys are to be capped as required. Use of existing chimneys for the purpose of venting may be possible based on a Building Department inspection/approval. However base bids are to be submitted with direct venting to the exterior without use of the existing chimney or chimney's.

(94% AFUE Minimum- Energy Star rating required.)

***Additional Contractor Inclusions-**

Complete installation to include all hardware and labor required for the installation, direct venting, and connection of domestic hot water through the new unit. All costs associated with connection to utilities where they enter the home, such as

electrical, or gas, are to be included in the base bid. Contractors are expected to include any modifications to access these utilities based on the location to the new installation. Include venting, draining of any existing hot water tanks where required. Include removal and securing of any chimney vented appliance if applicable.

General Notes: Contractors are responsible for coordinating with N.P.U. and the local Building Department for all required inspections/testing as may be required. It is the contractor's responsibility to account for the general conditions and requirements per project based on a thorough inspection at each on site meeting.