

DATE: September 23, 2024

SUBJECT: **Addendum 01**

Project No: 24.010

Owner: Broome County Land Bank Corporation

Project Title: Renovations + Reconstruction

Address: 8 Gray Street | Binghamton, NY 13904

Bid Due Date: Tuesday, October 2, 2024 @ 2pm

Previously Issued Addenda

None

Please note the following addendum/changes in the bid proposal. All bids received will be in accordance with this addendum. All other drawings, specifications, terms and conditions remain the same.

1. **Clarification:** Permits

The General Contractor will be responsible to obtain and pay for all Permits required to complete the Work.

2. **Clarification:** Hazardous Materials Removals

Refer to the Attached "Specifications for the LEAD-BASED PAINT

ABATEMENT/ENCLOSURE AT VACANT RESIDENTIAL PROPERTY IN BROOME COUNTY, NY" Dated 12/20/2023, by Delta Engineers, Architects, & Surveyors.

The "Work Specifications" detailed in this report, are to become part of the Contractor's Scope of Work.

NOTE: A Certified lead abatement contractor is not necessary. RRP certification contractor is the minimum requirement for the project.

3. **Clarification:** Date of Substantial Completion

The Date of Substantial Completion that will be stipulated in the Contract with the successful Bidder, will be: February 28, 2025.

End of Addendum 01

Specifications for the
LEAD-BASED PAINT ABATEMENT/ENCLOSURE AT
VACANT RESIDENTIAL PROPERTY IN BROOME
COUNTY, NY

8 Gray Street, Binghamton, NY 13904 (City of Binghamton)



OWNER:

BROOME COUNTY LAND BANK CORPORATION
60 Hawley Street, 5th Floor, Binghamton, New York 13901
(607) 778-6001

ENGINEER:



Delta Engineers, Architects, Land Surveyors, & Landscape Architects, DPC
860 Hooper Road, Endwell, New York 13760
Tel: 607-231-6600
www.delta-eas.com

Delta Project No. 2022.285.015

Dated: December 20th, 2023



SECTION 028303 – LEAD BASED PAINT ABATEMENT/ENCAPSULATION/ENCLOSURE

PART 1 GENERAL

1.01 SUMMARY

- A. This section specifies the requirements for protection of workers, prevention of lead dust, paint chips, or debris contamination of adjacent areas, performing lead-abatement, post-abatement cleaning, pre-disposal testing of removed materials, and appropriate disposal of removed materials. The results of the testing for lead containing materials are listed in the risk assessment and scope of work.
- B. The Contractor shall be aware of all conditions of the project and is responsible for verifying quantities and locations of all work to be performed. Failure to do so shall not relieve the contractor of its obligation to furnish all labor and materials necessary to perform the work. Any discrepancies shall be brought to the attention of the engineer or their representative prior to the start of the project.
- C. All Work shall be performed in strict accordance with the project documents and all governing codes, rules, and regulations. Where conflicts occur between the project documents and applicable codes, rules, and regulations, the more stringent shall apply.

1.02 SCOPE OF WORK

- A. The Lead Based Paint abatement work will consist of the following:
 - 1. 8 Gray Street, Binghamton, NY Property Residential Structure: Remove or enclose all items listed in the work plan found in **Attachment A and the Lead Based Paint Survey Report in Attachment B**.
 - 2. The lead based painted components listed above and in the work plan found in Attachment A shall be removed intact and properly disposed of or enclosed with approved materials.
 - 3. Reference Contract Drawings for additional information.

1.02 ON SITE DOCUMENTATION: The contractor shall keep information on site for the duration of the project.

- A. Quality Control:
 - 1. Worker's Qualifications Data:
 - a. Name of each person who will be performing the Work and their employer's name, business address and telephone number.
 - b. Name and contact information for supervisor on site during the work.
 - c. Lead Abatement Supervisor or Lead Worker Individual Certifications for each person working on site.
 - d. RRP certification for all employees working on site.
 - e. Lead Abatement and Lead Renovation Firm Certifications for the company.
- B. Provide a logbook throughout the entire term of the project. All persons who enter the regulated lead dust control work area or containment shall sign the log book. Document any intrusion or incident in the log book. Document all work performed each day of the project including but not limited to type of work (i.e. remove/install window), location (i.e. bedroom#1). For projects that include asbestos containing material removal the logbook shall also follow the requirements of 12 NYCRR part 56.

- C. Product Data: Catalog sheets, specifications, Safety Data Sheets and application instructions for paint removal products, and all equipment used on project.

1.03 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with the referenced standards.
- B. Pre-Work Conference: Before the work of this section is scheduled to commence, a conference will be held by the engineer and/or their representative at the site for the purpose of reviewing the Scope of Work, discussing requirements for the work, phasing of the work and reviewing the work procedures with the contractor.
- C. Detailed Lead-Containing Material Removal/Encapsulation Work Plan: At the conclusion of the pre-work conference, before the physical lead abatement/encapsulation work begins, the contractor shall prepare a detailed lead-containing material removal/encapsulation work plan.
 - 1. The work plan shall include, but not be limited to a drawing indicating the location, size, and details of lead dust control work areas, location and details of containment, decontamination facilities, sequencing of lead removal, work procedures, types of equipment, waste separation, containerization procedures, disposal and crew size. Include emergency procedures for fire and medical emergencies.
- D. Site Inspections: Delta Engineers, Architects, & Surveyors and/or their representative may perform site inspections during all phases of the work including clearance testing.

1.04 PROJECT CONDITIONS

- A. Shut-down or cover Air Handling System: Complete the work of this section within the time limitation allowed for shut-down of the air handling system serving the work area.
- B. Cover and seal all fin-tube radiator covers, diffusers, duplex outlets, speakers, smoke, and heat detectors, etc. Use temporary plasticized partitions as required. All smoke and heat detectors shall be uncovered and operational at the end of each workday or when the contractor is not at the work site.
 - 1. Prevent lead containing dust from entering hard to clean areas within the dust containment area.
 - 2. Items judged to be too difficult to protect may be disconnected, removed, and replaced at contractor's option and cost.
- C. Remove or encase all movable equipment in the work area with fire retardant polyethylene sheeting.
- D. Cut and alter existing materials as required to perform the work. Limit cutting to the smallest amount necessary. Core drill round holes and saw cut other openings where possible for removal work. Flame cutting, high speed grinding or welding is prohibited on lead painted surfaces.

1.05 HEALTH AND SAFETY

- A. Where in the performance of the work, workers, supervisory personnel or sub-contractors may encounter, disturb, or otherwise function in the immediate vicinity of contaminated items and materials, all personnel shall take appropriate continuous measures as necessary to protect all ancillary building occupants from the potential lead exposure.

1. Such measures shall include the procedures and methods described herein and shall be in compliance with all applicable regulations of Federal, State and Local agencies.

1.06 FIRE PROTECTION, EMERGENCY EGRESS AND SECURITY

- A. Establish emergency and fire exits from the lead dust control work area containment. Provide fire extinguishers, first aid kits and two full sets of protective clothing and respirators for use by qualified emergency personnel outside of the work area.

1.07 PERSONAL PROTECTIVE CLOTHING AND EQUIPMENT

- A. Workers must wear protective suits, protective gloves, eye protection and a respiratory protection for all projects. Respiratory protection shall be in accordance with OSHA regulation 1910.134, ANSI Z87.1, and ANSI Z88.2.
- B. Workers must be trained as per EPA, OSHA and DOL requirements, have medical clearance and must have recently received pulmonary function test (PFT) and respirator fit tested by a trained professional.
 1. A personal air sampling program shall be in place as required by OSHA.
 2. The use of respirators must also follow a complete respiratory protection program as specified by OSHA.

PART 2 PRODUCTS

2.01 PAINT REMOVAL PRODUCTS

- A. Chemical Paint Removal Products: Provide products that will not produce noxious fumes and does not contain Methylene Chloride.
- B. Mechanical Paint Removal: Provide UL 586 labeled, high efficiency particulate air (HEPA) filter system, and shrouded tools certified as being capable of trapping and retaining mono-dispersed particles as small as 0.3 micrometers at a minimum efficiency of 99.97 percent.

2.03 VACUUM CLEANERS

- A. Type: Vacuums equipped with new HEPA filters.

2.04 PLASTIC SHEETS

- A. Type: Minimum 6 mil., fire retardant polyethylene sheets.

2.05 DISPOSAL BAGS

- A. Type: Minimum 6 mil thick, polyethylene bags with preprinted Caution Label. Properly containerize/drum prior to disposal.

2.06 EQUIPMENT

- A. Temporary lighting, heating, ground fault interrupters, and all other equipment on site shall be UL listed and shall be safe, proper, and sufficient for the purpose intended.
- B. All electrical equipment shall be in compliance with the National Electric Code, Article 305 - Temporary Wiring.

PART 3 EXECUTION

3.01 NOTIFICATION

- A. Notify Delta Engineers, Architects, & Surveyors or their representative a minimum of 5 working days prior to the start of any lead-based paint removal work.

3.02 EMPLOYEE PROTECTION

- A. Comply with all applicable Occupational Safety and Health Administration (OSHA) Requirements.

3.03 WORK AREA PROTECTION

- A. Lead Dust Control Work Area Requirements: Provide a lead dust control work area where lead-containing paint removal operations will be performed in accordance with the approved Work Plan and all governing codes, rules, and regulations. Where conflicts occur between the project documents and applicable codes, rules, and regulations, the more stringent shall apply.
- B. Protection of Existing Construction: Perform lead-based paint removal work without damage or contamination of adjacent areas and existing construction.

3.04 LEAD-CONTAINING MATERIAL REMOVAL

- A. Perform removal of lead-containing materials in accordance with all Local, State and Federal Regulations.

3.05 CERTIFICATION OF ABATEMENT/CLEANING

- A. Schedule dust wipe testing with Delta Engineers, Architects, & Surveyors and/or their Representative at the site when work area is ready for clearance testing.
- B. Delta Engineers, Architects, & Surveyors will employ the services of an independent testing lab to perform sample analysis.
 - 1. Schedule a walk-through inspection with Delta Engineers, Architects, & Surveyors, their Representative, and the owner to obtain approval.

3.06 DISPOSAL OF LEAD-CONTAINING MATERIAL AND RELATED DEBRIS

- A. Transport and dispose of lead-containing material classified as Hazardous Waste in accordance with all Local, State and Federal Regulations.
- B. Transport and dispose of lead-containing material classified as Non-Hazardous Waste in accordance with Local, State and Federal Regulations.

3.08 RESTORATION

- A. Remove temporary decontamination facilities and restore area designated for these facilities to its original condition or better.
- B. Where existing construction is damaged or contaminated, restore work to its original condition or better.

PART 4 REFERENCES

- A. New York State Department of Environmental Conservation (DEC) 6NYCRR:
 - 1. Part 360 Solid Waste Management Facilities.
 - 2. Part 364 Waste Transporter Permits.
 - 3. Part 370 Hazardous Waste Management System-General.
 - 4. Part 371 Identification and Listing of Hazardous Wastes.
 - 5. Part 372 Hazardous Waste Manifest System and Related Standards for Generators, Transporters and Facilities.
 - 6. Part 373 Hazardous Waste Management Facilities.

- B. New York State Department of Transportation (DOT): Follow all regulations of 49CFR Part 100 through 199.

- C. Occupational Safety and Health Administration (OSHA): Lead Exposure in Construction: Interim Final Rule 29 CFR 1926.62.

- D. U.S. Department of Housing and Urban Development (HUD): Guidelines for evaluation and control of Lead based paint hazards: Title Ten of Housing and Community Act of 1992.

- E. U.S. Environmental Protection Agency (EPA): Resource Conservation and Recovery Act (RCRA) Section 3004 Hazardous and Solid Waste Amendments.

- F. U.S. Environmental Protection Agency (EPA): Toxicity Characteristics Leaching Procedure EPA Method 1311.

- G. U.S. Environmental Protection Agency (EPA): Lead Renovation, Repair and Painting Rule (RRP Rule).

- H. New York State Department of Labor (DOL): Follow all regulations of 12 NYCRR Part 56.

END OF SECTION

Attachment A

8 Gray Street, Binghamton, NY
Lead Based Paint Abatement/Enclosure Scope of Work

Work Specifications

8 Gray Street, Binghamton, NY 13904

Hazard Item #	Room	Structure	Work Specification
1	Basement	Window Units (B & D)	Install replacement unit with U factor of .030 or better, remove deteriorated paint from all remaining trim components, prepare all surfaces, re-paint with primer and two coats of finish paint, wrap exterior trim with aluminum or vinyl flashing and caulk seams/joints.
2	Living Room	Window Unit (A)	Install replacement unit with U factor of .030 or better, remove deteriorated paint from all remaining trim components, prepare all surfaces, re-paint with primer and two coats of finish paint, wrap exterior trim with aluminum or vinyl flashing and caulk seams/joints.
3	Enclosed Front Porch	Crown Molding (A, B, C, & D)	Remove deteriorated paint, prepare surface, coat with primer and top coat of paint or remove and dispose of painted components or cover with approved materials.
4	Enclosed Front Porch	Ceiling	Remove deteriorated paint, prepare surface, coat with primer and top coat of paint or remove and dispose of painted components or cover with approved materials.
5	Enclosed Front Porch	Walls (B & D) Lower	Remove deteriorated paint, prepare surface, coat with primer and top coat of paint or remove and dispose of painted components or cover with approved materials.
6	Garage	Walls (A, B, C, & D)	Remove deteriorated paint, prepare surface, coat with primer and top coat of paint or remove and dispose of painted components or cover with approved materials.
7	Garage	Walls (A) Upper	Remove deteriorated paint, prepare surface, coat with primer and top coat of paint or remove and dispose of painted components or cover with approved materials.
8	Garage	Fascia/Soffit (A, B, C, & D)	Label as Lead and wrap exterior fascia & soffit with aluminum or vinyl flashing and caulk edges to create weather and lead barrier. Or wet scrape, prime, and paint.
9	Garage	Overhead Door Trim (A)	Remove deteriorated paint, prepare surface, coat with primer and top coat of paint or remove and dispose of painted components or cover with approved materials.
10	Garage	Window Units (B & D)	Install replacement unit with U factor of .030 or better, replace sill & stops, remove deteriorated paint from all remaining trim components, prepare all surfaces, re-paint with primer and two coats of finish paint, wrap exterior trim with aluminum or vinyl flashing and caulk seams/joints.

Attachment B

8 Gray Street, Binghamton, NY
Lead Based Paint Inspection Report

Full Building Lead-Based Paint Survey Report

Performed at

Residential Property
8 Gray Street, Binghamton, NY 13904



Prepared for:



Jessica Haas, Executive Director
Broome County Land Bank Corporation
60 Hawley Street 5th Floor
Binghamton, New York 13901

Prepared by:



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Delta Project No. 2022.285.015

Field work performed by: Michael J. Staudt
November 21st, 2023

Report prepared by: Michael J. Staudt

Report reviewed by: William Johnson

EXECUTIVE SUMMARY

DELTA ENGINEERS, ARCHITECTS, LAND SURVEYORS, & LANDSCAPE ARCHITECTS, DPC (Delta) was contracted by the Broome County Land Bank Corporation to perform full building lead-based paint survey of the single-family residence, located at 8 Gray Street, Binghamton, NY. This survey was performed to identify lead-based paint at the structure with the potential to be impacted by the upcoming renovation project. The home was built in 1910.

On November 21st, 2023, Delta EPA/NYS Certified Lead Based Paint Risk Assessor, Michael J. Staudt, conducted an XRF Lead Based Paint Survey for the home's interior & exterior areas. This survey addressed suspect interior/exterior painted surfaces with the potential to be impacted by future renovation projects. Representative XRF sampling following modified HUD Protocol was performed on interior/exterior walls and did not address miscellaneous components or equipment mounted on the affected walls (i.e., picture frames, stored furniture, file cabinets, moveable items, etc.).

Delta took two-hundred seventy-three (273) assays (including 6 "pre" and 6 "post" calibration assays) of observed painted surfaces and components utilizing the XRF analyzer to determine the presence of lead-based paint at the single-story structure.

It should be noted that Delta's survey and visual inspection was limited to only accessible surfaces within the home.

APPLICABLE STANDARDS/GUIDELINES:

The standards used to identify lead-based paint for this survey were taken from the OSHA 1926.62 (Lead) Standard, modification of the guidelines established by the U.S. Department of Housing and Urban Development (HUD) as well as New York State regulations.

Occupational Safety and Health Administration (OSHA)

On May 4, 1993, OSHA promulgated the Lead Exposure in Construction Rule and codified the regulation in Title 29, CFR, Part 1926.62. This particular regulation applies to all construction activities involving potential lead exposures. This regulation defines construction work as "work for construction, alteration, and/or repair including painting and decorating." It further states "the standard for the construction industry applies to all occupational exposure to lead in all construction work in which lead, in any **amount**, is present in an occupationally related context where the source of the lead is employment related, all exposure to lead is covered by the standard."

U.S. Department of Housing and Urban Development (HUD)

The U.S. Department of Housing and Urban Development (HUD) defines the action level for lead-based paint as a lead content equal to or greater than 1.0 milligrams of lead per square centimeter of painted surface ($\geq 1.0 \text{ mg Pb/cm}^2$) when measured with an XRF analyzer, or 0.5 percent by weight when chemically tested. This definition is described in the HUD "Lead-Based Paint: Interim Guidelines for Hazard Identification and Abatement in Public and Indian Housing, September 1990."

New York State

The State of New York's definition of the action level for lead-based paint is consistent with the level established by HUD. The State is in the process of adopting LBP regulations which are based on the HUD guidelines and currently enforces only licensing/certification requirements.

SAMPLING METHODS/PROCEDURES:

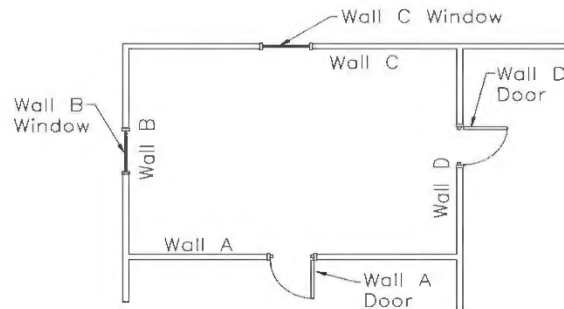
Delta performed sampling utilizing a HEURESIS Pb200i XRF Lead Paint Analyzer. The Lead Paint Analyzer is a state-of-the-art XRF spectrum analyzing system for the quantitative measurement of lead in paint on any surface. The HEURESIS Pb200i XRF Lead Paint Analyzer uses a Co-57 radioactive source and an advanced, solid-state, room temperature, radiation detector to generate and detect the x-ray fluorescence spectrum of a painted surface. The x-ray fluorescence properties are determined through calibration process and are used for automatic substrate correction and calculation of the lead content of a painted surface. The HEURESIS Pb200i XRF Lead Paint Analyzer is operated with guidance from the Performance Characteristic Sheet¹ developed by *QuanTech, Inc.* under a contract from the U.S. Department of Housing and Urban Development (HUD). The instrument has an action level of 1.0 mg/cm^2 with results at or above this value classified as Lead-Based Paint as per the applicable HUD and NYS regulations referenced above. Results reported as greater than 0.0 mg/cm^2 are considered Lead-Containing Paint as per the OSHA standards.

1-HUD has determined that the PCS information is acceptable when used in conjunction with Chapter 7, Lead Based Paint Inspection of HUD's Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing.

RESULTS

Delta took two hundred sixty-one (261) individual assays of interior/exterior painted surfaces and components present on the structure; of which **fifty (50)** were positive for the presence of lead as per the NYS and HUD $\geq 1.0 \text{ mg/cm}^2$ criteria referenced above for Lead Based Paint. The remaining **two-hundred eleven (211)** assays were reported as being less than 1.0 mg/cm^2 .

As defined by Industry guidelines, for purposes of identifying/locating the various surfaces and components included in this survey, the roadside of the structure (8 Gray Street) is referenced as "Wall A," with Wall B immediately to the left of "A" and Walls C and D continuing clockwise around the room.



Appendix A includes the Overall XRF Lead Paint Report Form listing all individual assay results, sampling locations and details. Appendix B includes the XRF Lead Paint Report Form listing all individual assay results reported as falling within the NYS/HUD Lead-Based Paint Criteria. Appendix C includes Company and Personnel license and certification paperwork. Appendix D includes drawings of all floors tested with room identifiers for reference to individual assay locations. Appendix E includes the Heuresis Pb200i Performance Characteristic Sheet.



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APPENDIX A

**8 Gray Street
Binghamton, NY 13904**

Overall XRF Lead Paint Report Form

LEAD XRF INSPECTION REPORT

Inspection Date: 11/21/2023
 Action Level: 1.0 mg/cm2
 Total Readings: 273
 Unit Started: 11/21/2023 *09:45:27 AM
 Unit Finished: 11/21/2023 *13:33:34 PM

Inspection Site / Unit Address: 8 Gray Street, Single Family, Binghamton, NY
 Inspector: Michael J. Staudt LBP - R-17652-3
 Lead Gun: Heuresis Corporation Model Pb200i
 XRF Lead Paint Analyzer
 Serial No.: 2230
 App Version: Pb200i-4.1-11

Reading	Result	Room	Room Choice	Structure	Member	Substrate	Color	Wall	Location	Condition	Lead (mg/cm ²)	Mode
1	Calibration										1.0	Action Mode
2	Calibration										1.0	Action Mode
3	Calibration										1.0	Action Mode
4	Calibration										0.1	Action Mode
5	Calibration										0.1	Action Mode
6	Calibration										0.1	Action Mode
7	Positive	Interior	Basement	Window 1	Sash	Wood	Gray	B	Rgt	Deteriorated	1.7	Action Mode
8	Positive	Interior	Basement	Window 1	Frame	Wood	Gray	B	Rgt	Deteriorated	1.5	Action Mode
9	Positive	Interior	Basement	Window 1	Outer Sash	Wood	Gray	B	Ctr	Deteriorated	5.4	Action Mode
10	Positive	Interior	Basement	Window 1	Outer Trim	Wood	Gray	B	Rgt	Deteriorated	11.0	Action Mode
11	Positive	Interior	Basement	Window 2	Sash	Wood	Gray	B	Lft	Deteriorated	1.2	Action Mode
12	Positive	Interior	Basement	Window 2	Frame	Wood	Gray	B	Lft	Deteriorated	1.9	Action Mode
13	Positive	Interior	Basement	Window 2	Outer Sash	Wood	Gray	B	Lft	Deteriorated	3.7	Action Mode
14	Positive	Interior	Basement	Window 2	Outer Trim	Wood	Gray	B	Lft	Deteriorated	8.4	Action Mode
15	Negative	Interior	Basement	Door, Side Entry		Wood	Tan	B	Ctr	Deteriorated	0.2	Action Mode
16	Negative	Interior	Basement	Door, Side Entry	Jamb	Wood	White	B	Ctr	Deteriorated	0.1	Action Mode
17	Negative	Interior	Basement	Door, Side Entry	Stop	Wood	White	B	Lft	Deteriorated	0.2	Action Mode
18	Negative	Interior	Basement	Door, Side Entry	Trim	Wood	White	B	Lft	Deteriorated	0.1	Action Mode
19	Negative	Interior	Basement	Window 1, Newer	Sash	Wood	Stain	C	Rgt	Deteriorated	0.1	Action Mode

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Reading	Result	Room	Room Choice	Structure	Member	Substrate	Color	Wall	Location	Condition	Lead (mg/cm ²)	Mode
20	Negative	Interior	Basement	Window 1	Stop	Wood	Stain	C	Lft	Deteriorated	0.1	Action Mode
21	Negative	Interior	Basement	Window 1	Jamb	Wood	Stain	C	Lft	Deteriorated	0.4	Action Mode
22	Negative	Interior	Basement	Window 1	Outer Sash	Wood	White	C	Lft	Deteriorated	0.1	Action Mode
23	Negative	Interior	Basement	Window 1	Outer Jamb	Wood	White	C	Lft	Deteriorated	0.1	Action Mode
24	Negative	Interior	Basement	Window 1	Outer Trim	Wood	White	C	Ctr	Deteriorated	0.1	Action Mode
25	Negative	Interior	Basement	Window 2, Newer	Sash	Wood	Stain	C	Ctr	Deteriorated	0.4	Action Mode
26	Negative	Interior	Basement	Window 2	Stop	Wood	Stain	C	Lft	Deteriorated	0.2	Action Mode
27	Negative	Interior	Basement	Window 2	Jamb	Wood	Stain	C	Lft	Deteriorated	0.0	Action Mode
28	Negative	Interior	Basement	Window 2	Outer Sash	Wood	White	C	Rgt	Deteriorated	0.1	Action Mode
29	Negative	Interior	Basement	Window 2	Outer Jamb	Wood	White	C	Ctr	Deteriorated	0.4	Action Mode
30	Negative	Interior	Basement	Window 2	Outer Trim	Wood	White	C	Lft	Deteriorated	0.1	Action Mode
31	Negative	Interior	Basement	Window 3, Newer	Sash	Wood	Stain	C	Rgt	Deteriorated	0.2	Action Mode
32	Negative	Interior	Basement	Window 3	Stop	Wood	Stain	C	Rgt	Deteriorated	0.2	Action Mode
33	Negative	Interior	Basement	Window 3	Jamb	Wood	Stain	C	Rgt	Deteriorated	0.1	Action Mode
34	Negative	Interior	Basement	Window 3	Outer Sash	Wood	White	C	Rgt	Deteriorated	0.2	Action Mode
35	Negative	Interior	Basement	Window 3	Outer Jamb	Wood	White	C	Rgt	Deteriorated	0.1	Action Mode
36	Negative	Interior	Basement	Window 3	Outer Trim	Wood	White	C	Rgt	Deteriorated	0.1	Action Mode
37	Positive	Interior	Basement	Window 1	Sash	Wood	Gray	D	Lft	Deteriorated	1.0	Action Mode
38	Positive	Interior	Basement	Window 1	Frame	Wood	Gray	D	Lft	Deteriorated	1.1	Action Mode

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 App Version: Pb200i-4.1-11

Reading	Result	Room	Room Choice	Structure	Member	Substrate	Color	Wall	Location	Condition	Lead (mg/cm ²)	Mode
39	Positive	Interior	Basement	Window 1	Outer Sash	Wood	Gray	D	Ctr	Deteriorated	2.6	Action Mode
40	Positive	Interior	Basement	Window 1	Outer Trim	Wood	Gray	D	Ctr	Deteriorated	6.1	Action Mode
41	Positive	Interior	Basement	Window 2	Sash	Wood	Gray	D	Rgt	Deteriorated	1.5	Action Mode
42	Positive	Interior	Basement	Window 2	Frame	Wood	Gray	D	Ctr	Deteriorated	1.1	Action Mode
43	Positive	Interior	Basement	Window 2	Outer Sash	Wood	Gray	D	Lft	Deteriorated	1.8	Action Mode
44	Positive	Interior	Basement	Window 2	Outer Trim	Wood	Gray	D	Lft	Deteriorated	8.5	Action Mode
45	Negative	Interior	Basement	Column		Metal	Gray		Rgt	Intact	0.1	Action Mode
46	Negative	Interior	Basement	Column		Wood	Gray		Ctr	Deteriorated	0.4	Action Mode
47	Negative	Interior	Basement	Beam		Wood	Green		Lft	Deteriorated	0.1	Action Mode
48	Negative	Interior	Living Room	Wall		Sheetrock	White	A	Rgt	Intact	0.2	Action Mode
49	Negative	Interior	Living Room	Wall	Baseboard	Wood	Stain	A	Rgt	Intact	0.2	Action Mode
50	Negative	Interior	Living Room	Door		Wood	Stain	A	Rgt	Intact	0.1	Action Mode
51	Negative	Interior	Living Room	Door	Jamb	Wood	White	A	Rgt	Deteriorated	0.2	Action Mode
52	Negative	Interior	Living Room	Door	Stop	Wood	White	A	Rgt	Deteriorated	0.1	Action Mode
53	Negative	Interior	Living Room	Door	Trim	Wood	Stain	A	Ctr	Deteriorated	0.4	Action Mode
54	Negative	Interior	Living Room	Door	Threshold	Wood	Gray	A	Lft	Deteriorated	0.2	Action Mode
55	Negative	Interior	Living Room	Door	Outer Trim	Wood	White	A	Lft	Deteriorated	0.0	Action Mode
56	Negative	Interior	Living Room	Window	Sash	Wood	Stain	A	Rgt	Intact	0.1	Action Mode
57	Negative	Interior	Living Room	Window	Sill	Wood	Stain	A	Ctr	Intact	0.4	Action Mode

LEAD XRF INSPECTION REPORT

Inspection Date: 11/21/2023
 Action Level: 1.0 mg/cm²
 Total Readings: 273
 Unit Started: 11/21/2023 *09:45:27 AM
 Unit Finished: 11/21/2023 *13:33:34 PM

Inspection Site / Unit Address: 8 Gray Street, Single Family, Binghamton, NY
 Inspector: Michael J. Staudt LBP - R-17652-3
 Lead Gun: Heuresis Corporation Model Pb200i
 XRF Lead Paint Analyzer
 Serial No.: 2230
 App Version: Pb200i-4.1-11

Reading	Result	Room	Room Choice	Structure	Member	Substrate	Color	Wall	Location	Condition	Lead (mg/cm ²)	Mode
58	Negative	Interior	Living Room	Window	Apron	Wood	Stain	A	Lft	Intact	0.1	Action Mode
59	Negative	Interior	Living Room	Window	Stop	Wood	Stain	A	Rgt	Intact	0.2	Action Mode
60	Negative	Interior	Living Room	Window	Trim	Wood	Stain	A	Rgt	Intact	0.2	Action Mode
61	Negative	Interior	Living Room	Window	Jamb	Wood	Stain	A	Rgt	Intact	0.1	Action Mode
62	Positive	Interior	Living Room	Window	Trough	Wood	Gray	A	Rgt	Deteriorated	2.0	Action Mode
63	Positive	Interior	Living Room	Window	Outer Sash	Wood	White	A	Rgt	Deteriorated	2.5	Action Mode
64	Positive	Interior	Living Room	Window	Outer Jamb	Wood	White	A	Rgt	Deteriorated	5.2	Action Mode
65	Positive	Interior	Living Room	Window	Outer Trim	Wood	White	A	Lft	Deteriorated	4.7	Action Mode
66	Negative	Interior	Living Room	Wall		Paneling	Stain	B	Lft	Intact	0.4	Action Mode
67	Negative	Interior	Living Room	Window, Newer	Trim	Wood	Stain	B	Ctr	Intact	0.3	Action Mode
68	Negative	Interior	Living Room	Window, Newer	Stop	Wood	Stain	B	Ctr	Intact	0.1	Action Mode
69	Negative	Interior	Living Room	Wall		Sheetrock	White	C	Rgt	Intact	0.1	Action Mode
70	Negative	Interior	Living Room	Wall	Trim	Wood	Stain	C	Rgt	Intact	0.2	Action Mode
71	Negative	Interior	Living Room	Door	Jamb	Wood	Stain	C	Lft	Intact	0.1	Action Mode
72	Negative	Interior	Living Room	Door	Trim	Wood	Stain	C	Lft	Intact	0.1	Action Mode
73	Negative	Interior	Living Room	Ceiling	Trim	Wood	Stain		Ctr	Intact	0.1	Action Mode
74	Negative	Interior	Living Room	Ceiling	Grid	Metal	White		Lft	Intact	0.4	Action Mode
75	Negative	Interior	Dining Room	Wall		Paneling	Stain	A	Lft	Intact	0.1	Action Mode
76	Negative	Interior	Dining Room	Wall	Trim	Wood	Stain	A	Lft	Intact	0.1	Action Mode

LEAD XRF INSPECTION REPORT

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Reading	Result	Room	Room Choice	Structure	Member	Substrate	Color	Wall	Location	Condition	Lead (mg/cm ²)	Mode
77	Negative	Interior	Dining Room	Door	Trim	Wood	Stain	A	Lft	Intact	0.1	Action Mode
78	Negative	Interior	Dining Room	Wall		Paneling	Stain	B	Ctr	Intact	0.4	Action Mode
79	Negative	Interior	Dining Room	Wall	Baseboard	Wood	Stain	B	Ctr	Intact	0.2	Action Mode
80	Negative	Interior	Dining Room	Window, Newer	Trim	Wood	Stain	B	Lft	Intact	0.0	Action Mode
81	Negative	Interior	Dining Room	Window, Newer	Stop	Wood	Stain	B	Rgt	Intact	0.1	Action Mode
82	Negative	Interior	Dining Room	Wall		Paneling	Stain	C	Rgt	Intact	0.4	Action Mode
83	Negative	Interior	Dining Room	Wall	Baseboard	Wood	Stain	C	Lft	Intact	0.1	Action Mode
84	Negative	Interior	Dining Room	Door	Trim	Wood	Stain	C	Lft	Intact	0.2	Action Mode
85	Negative	Interior	Dining Room	Wall		Paneling	Stain	D	Ctr	Intact	0.2	Action Mode
86	Negative	Interior	Dining Room	Wall	Vent	Metal	Gray	D	Lft	Intact	0.1	Action Mode
87	Negative	Interior	Dining Room	Door, BR 1		Wood	Stain	D	Lft	Intact	0.2	Action Mode
88	Negative	Interior	Dining Room	Door, BR 1	Trim	Wood	Stain	D	Lft	Intact	0.1	Action Mode
89	Negative	Interior	Dining Room	Ceiling	Grid	Metal	White		Lft	Intact	0.1	Action Mode
90	Negative	Interior	Bedroom 1	Wall		Paneling	Stain	A	Ctr	Intact	0.1	Action Mode
91	Negative	Interior	Bedroom 1	Door, Closet 1		Wood	Stain	A	Ctr	Intact	0.4	Action Mode
92	Negative	Interior	Bedroom 1	Door, Closet 1	Trim	Wood	Stain	A	Lft	Intact	0.3	Action Mode
93	Negative	Interior	Bedroom 1	Door, Closet 2		Wood	Stain	A	Rgt	Intact	0.1	Action Mode
94	Negative	Interior	Bedroom 1	Door, Closet 2	Trim	Wood	Stain	A	Rgt	Intact	0.8	Action Mode
95	Negative	Interior	Bedroom 1	Wall		Paneling	Stain	B	Rgt	Intact	0.1	Action Mode

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Reading	Result	Room	Room Choice	Structure	Member	Substrate	Color	Wall	Location	Condition	Lead (mg/cm ²)	Mode
96	Negative	Interior	Bedroom 1	Wall	Vent	Metal	White	B	Rgt	Intact	0.1	Action Mode
97	Negative	Interior	Bedroom 1	Door, Closet 3		Wood	Stain	B	Lft	Intact	0.4	Action Mode
98	Negative	Interior	Bedroom 1	Door, Closet 3	Trim	Wood	Stain	B	Lft	Intact	0.2	Action Mode
99	Negative	Interior	Bedroom 1	Door		Wood	Stain	B	Rgt	Intact	0.0	Action Mode
100	Negative	Interior	Bedroom 1	Door	Jamb	Wood	Stain	B	Ctr	Intact	0.1	Action Mode
101	Negative	Interior	Bedroom 1	Door	Stop	Wood	Stain	B	Ctr	Intact	0.4	Action Mode
102	Negative	Interior	Bedroom 1	Door	Trim	Wood	Stain	B	Rgt	Intact	0.1	Action Mode
103	Negative	Interior	Bedroom 1	Wall		Paneling	Stain	C	Rgt	Intact	0.2	Action Mode
104	Negative	Interior	Bedroom 1	Wall	Baseboard	Wood	Stain	C	Lft	Deteriorated	0.2	Action Mode
105	Negative	Interior	Bedroom 1	Wall		Paneling	Stain	D	Rgt	Intact	0.1	Action Mode
106	Negative	Interior	Bedroom 1	Wall	Baseboard	Wood	Stain	D	Lft	Intact	0.2	Action Mode
107	Negative	Interior	Bedroom 1	Window 1, Newer	Trim	Wood	Stain	D	Rgt	Intact	0.1	Action Mode
108	Negative	Interior	Bedroom 1	Window 1	Stop	Wood	Stain	D	Rgt	Intact	0.1	Action Mode
109	Negative	Interior	Bedroom 1	Window 2, Newer	Trim	Wood	Stain	D	Rgt	Intact	0.1	Action Mode
110	Negative	Interior	Bedroom 1	Window 2	Stop	Wood	Stain	D	Lft	Intact	0.4	Action Mode
111	Negative	Interior	Bedroom 1	Ceiling	Trim	Wood	Stain		Lft	Intact	0.1	Action Mode
112	Negative	Interior	Bedroom 1	Ceiling	Grid	Metal	White		Ctr	Intact	0.1	Action Mode
113	Negative	Interior	Bedroom 1 Closet 1	Wall		Sheetrock	Purple	A	Rgt	Intact	0.1	Action Mode
114	Negative	Interior	Bedroom 1 Closet 1	Shelf		Wood	White	A	Rgt	Intact	0.4	Action Mode

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Reading	Result	Room	Room Choice	Structure	Member	Substrate	Color	Wall	Location	Condition	Lead (mg/cm ²)	Mode
115	Negative	Interior	Bedroom 1 Closet 1	Shelf	Support	Wood	Stain	A	Rgt	Intact	0.2	Action Mode
116	Negative	Interior	Bedroom 1 Closet 1	Wall		Sheetrock	Purple	B	Lft	Deteriorated	0.0	Action Mode
117	Negative	Interior	Bedroom 1 Closet 1	Wall		Paneling	Stain	C	Lft	Intact	0.1	Action Mode
118	Negative	Interior	Bedroom 1 Closet 1	Door		Wood	Stain	C	Rgt	Intact	0.4	Action Mode
119	Negative	Interior	Bedroom 1 Closet 1	Door	Jamb	Wood	Stain	C	Rgt	Intact	0.1	Action Mode
120	Negative	Interior	Bedroom 1 Closet 1	Door	Stop	Wood	Stain	C	Ctr	Intact	0.2	Action Mode
121	Negative	Interior	Bedroom 1 Closet 1	Door	Trim	Wood	Stain	C	Lft	Intact	0.2	Action Mode
122	Negative	Interior	Bedroom 1 Closet 1	Wall		Sheetrock	Purple	D	Rgt	Intact	0.1	Action Mode
123	Negative	Interior	Bedroom 1 Closet 1	Ceiling		Sheetrock	White		Lft	Deteriorated	0.2	Action Mode
124	Negative	Interior	Bedroom 1 Closet 2	Wall		Sheetrock	White	A	Lft	Deteriorated	0.1	Action Mode
125	Negative	Interior	Bedroom 1 Closet 2	Wall		Sheetrock	White	B	Lft	Intact	0.1	Action Mode
126	Negative	Interior	Bedroom 1 Closet 2	Door		Wood	Stain	C	Rgt	Intact	0.1	Action Mode
127	Negative	Interior	Bedroom 1 Closet 2	Door	Jamb	Wood	Stain	C	Rgt	Intact	0.4	Action Mode
128	Negative	Interior	Bedroom 1 Closet 2	Door	Stop	Wood	Stain	C	Rgt	Intact	0.3	Action Mode
129	Negative	Interior	Bedroom 1 Closet 2	Door	Trim	Wood	Stain	C	Rgt	Intact	0.1	Action Mode
130	Negative	Interior	Bedroom 1 Closet 2	Wall		Sheetrock	White	D	Rgt	Intact	0.2	Action Mode
131	Negative	Interior	Bedroom 1 Closet 2	Ceiling		Sheetrock	White		Ctr	Deteriorated	0.0	Action Mode
132	Negative	Interior	Bedroom 1 Closet 3	Wall		Paneling	Stain	A	Lft	Intact	0.1	Action Mode
133	Negative	Interior	Bedroom 1 Closet 3	Door		Wood	Stain	D	Ctr	Intact	0.0	Action Mode

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 XRF Lead Paint Analyzer
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Reading	Result	Room	Room Choice	Structure	Member	Substrate	Color	Wall	Location	Condition	Lead (mg/cm ²)	Mode
134	Negative	Interior	Bedroom 1 Closet 3	Door	Jamb	Wood	Stain	D	Rgt	Intact	0.1	Action Mode
135	Negative	Interior	Bedroom 1 Closet 3	Door	Stop	Wood	Stain	D	Rgt	Intact	0.4	Action Mode
136	Negative	Interior	Bedroom 1 Closet 3	Door	Trim	Wood	Stain	D	Ctr	Intact	0.2	Action Mode
137	Negative	Interior	Bedroom 1 Closet 3	Shelf		Wood	Stain	D	Rgt	Deteriorated	0.0	Action Mode
138	Negative	Interior	Kitchen	Wall		Paneling	Stain	A	Ctr	Intact	0.1	Action Mode
139	Negative	Interior	Kitchen	Door Trim		Wood	Stain	A	Ctr	Intact	0.4	Action Mode
140	Negative	Interior	Kitchen	Door Jamb		Wood	Stain	A	Rgt	Intact	0.1	Action Mode
141	Negative	Interior	Kitchen	Wall		Paneling	Stain	B	Rgt	Intact	0.2	Action Mode
142	Negative	Interior	Kitchen	Window, Newer	Sash	Wood	Stain	B	Lft	Deteriorated	0.2	Action Mode
143	Negative	Interior	Kitchen	Window	Sill	Wood	Stain	B	Lft	Deteriorated	0.1	Action Mode
144	Negative	Interior	Kitchen	Window	Stop	Wood	Stain	B	Lft	Deteriorated	0.2	Action Mode
145	Negative	Interior	Kitchen	Window	Trim	Wood	Stain	B	Ctr	Deteriorated	0.1	Action Mode
146	Negative	Interior	Kitchen	Window	Jamb	Wood	Stain	B	Ctr	Deteriorated	0.1	Action Mode
147	Negative	Interior	Kitchen	Window	Trough	Wood	White	B	Ctr	Deteriorated	0.1	Action Mode
148	Negative	Interior	Kitchen	Window	Outer Sash	Wood	White	B	Rgt	Deteriorated	0.4	Action Mode
149	Negative	Interior	Kitchen	Window	Outer Jamb	Wood	White	B	Rgt	Deteriorated	0.1	Action Mode
150	Negative	Interior	Kitchen	Window	Outer Trim	Wood	White	B	Rgt	Deteriorated	0.1	Action Mode
151	Negative	Interior	Kitchen	Cabinet, Upper		Wood	Stain	B	Lft	Intact	0.1	Action Mode
152	Negative	Interior	Kitchen	Cabinet, Upper	Door	Wood	Stain	B	Lft	Intact	0.4	Action Mode

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Reading	Result	Room	Room Choice	Structure	Member	Substrate	Color	Wall	Location	Condition	Lead (mg/cm ²)	Mode
153	Negative	Interior	Kitchen	Cabinet, Upper	Shelf	Wood	Stain	B	Ctr	Intact	0.2	Action Mode
154	Negative	Interior	Kitchen	Cabinet, Lower		Wood	Stain	B	Rgt	Intact	0.0	Action Mode
155	Negative	Interior	Kitchen	Cabinet, Lower	Door	Wood	Stain	B	Ctr	Intact	0.1	Action Mode
156	Negative	Interior	Kitchen	Cabinet, Lower	Drawer	Wood	Stain	B	Ctr	Intact	0.4	Action Mode
157	Negative	Interior	Kitchen	Wall		Paneling	Stain	C	Rgt	Intact	0.1	Action Mode
158	Negative	Interior	Kitchen	Door Trim		Wood	Stain	C	Lft	Intact	0.2	Action Mode
159	Negative	Interior	Kitchen	Door Jamb		Wood	Stain	C	Lft	Intact	0.2	Action Mode
160	Negative	Interior	Kitchen	Wall		Paneling	Stain	D	Lft	Intact	0.1	Action Mode
161	Negative	Interior	Kitchen	Ceiling		Tile	White		Lft	Intact	0.2	Action Mode
162	Negative	Interior	Kitchen	Floor		Ceramic	Tan		Rgt	Intact	0.1	Action Mode
163	Negative	Interior	Bathroom	Wall		Ceramic	Tan	A	Ctr	Intact	0.1	Action Mode
164	Negative	Interior	Bathroom	Wall		Ceramic	Tan	B	Lft	Intact	0.1	Action Mode
165	Negative	Interior	Bathroom	Door		Wood	Stain	B	Lft	Intact	0.4	Action Mode
166	Negative	Interior	Bathroom	Door	Jamb	Wood	Stain	B	Rgt	Deteriorated	0.3	Action Mode
167	Negative	Interior	Bathroom	Door	Stop	Wood	Stain	B	Rgt	Deteriorated	0.1	Action Mode
168	Negative	Interior	Bathroom	Door	Trim	Wood	Stain	B	Rgt	Intact	0.4	Action Mode
169	Negative	Interior	Bathroom	Wall		Ceramic	Tan	C	Rgt	Intact	0.2	Action Mode
170	Negative	Interior	Bathroom	Wall		Ceramic	Tan	D	Lft	Intact	0.0	Action Mode
171	Negative	Interior	Bathroom	Built-in		Wood	White	D	Lft	Intact	0.1	Action Mode

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172	Negative	Interior	Bathroom	Built-in	Shelf	Wood	White	D	Rgt	Intact	0.4	Action Mode
173	Negative	Interior	Bathroom	Window	Outer Trim	Wood	White	D	Ctr	Deteriorated	0.1	Action Mode
174	Negative	Interior	Bathroom	Ceiling		Sheetrock	White		Rgt	Intact	0.2	Action Mode
175	Negative	Interior	Bathroom	Floor		Ceramic	Tan		Rgt	Intact	0.2	Action Mode
176	Negative	Interior	Bedroom 2	Wall		Sheetrock	Green	A	Rgt	Deteriorated	0.1	Action Mode
177	Negative	Interior	Bedroom 2	Wall	Baseboard	Wood	Green	A	Rgt	Deteriorated	0.2	Action Mode
178	Negative	Interior	Bedroom 2	Wall	Vent	Wood	Gray	A	Ctr	Deteriorated	0.1	Action Mode
179	Negative	Interior	Bedroom 2	Wall		Sheetrock	Green	B	Rgt	Intact	0.1	Action Mode
180	Negative	Interior	Bedroom 2	Wall	Baseboard	Wood	Green	B	Ctr	Deteriorated	0.1	Action Mode
181	Negative	Interior	Bedroom 2	Wall	Crown Molding	Wood	White	B	Rgt	Intact	0.4	Action Mode
182	Negative	Interior	Bedroom 2	Door		Wood	Stain	B	Rgt	Deteriorated	0.1	Action Mode
183	Negative	Interior	Bedroom 2	Door	Jamb	Wood	Stain	B	Lft	Deteriorated	0.1	Action Mode
184	Negative	Interior	Bedroom 2	Door	Stop	Wood	Stain	B	Rgt	Deteriorated	0.1	Action Mode
185	Negative	Interior	Bedroom 2	Door	Trim	Wood	Stain	B	Ctr	Deteriorated	0.4	Action Mode
186	Negative	Interior	Bedroom 2	Wall		Sheetrock	Green	C	Lft	Intact	0.2	Action Mode
187	Negative	Interior	Bedroom 2	Window 1	Trim	Wood	Green	C	Rgt	Intact	0.0	Action Mode
188	Negative	Interior	Bedroom 2	Window 1	Stop	Wood	Green	C	Ctr	Intact	0.1	Action Mode
189	Negative	Interior	Bedroom 2	Window 2	Trim	Wood	Green	C	Rgt	Intact	0.4	Action Mode
190	Negative	Interior	Bedroom 2	Window 2	Stop	Wood	Green	C	Rgt	Intact	0.1	Action Mode

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191	Negative	Interior	Bedroom 2	Wall		Sheetrock	Green	D	Rgt	Intact	0.2	Action Mode
192	Negative	Interior	Bedroom 2	Window	Trim	Wood	Green	D	Lft	Intact	0.2	Action Mode
193	Negative	Interior	Bedroom 2	Window	Stop	Wood	Green	D	Rgt	Intact	0.1	Action Mode
194	Negative	Interior	Bedroom 2	Ceiling		Tile	White		Ctr	Intact	0.2	Action Mode
195	Negative	Interior	Laundry Room	Wall		Wood	White	A	Rgt	Intact	0.1	Action Mode
196	Negative	Interior	Laundry Room	Door	Trim	Wood	White	A	Lft	Intact	0.1	Action Mode
197	Negative	Interior	Laundry Room	Wall	Crown Molding	Wood	White	A	Rgt	Intact	0.1	Action Mode
198	Negative	Interior	Laundry Room	Wall		Wood	White	B	Ctr	Intact	0.1	Action Mode
199	Negative	Interior	Laundry Room	Wall		Wood	Stain	B	Rgt	Intact	0.4	Action Mode
200	Negative	Interior	Laundry Room	Door		Wood	White	B	Ctr	Deteriorated	0.2	Action Mode
201	Negative	Interior	Laundry Room	Door	Jamb	Wood	White	B	Ctr	Deteriorated	0.0	Action Mode
202	Negative	Interior	Laundry Room	Door	Stop	Wood	White	B	Ctr	Deteriorated	0.1	Action Mode
203	Negative	Interior	Laundry Room	Door	Trim	Wood	White	B	Rgt	Deteriorated	0.4	Action Mode
204	Negative	Interior	Laundry Room	Door	Threshold	Wood	Gray	B	Rgt	Deteriorated	0.1	Action Mode
205	Negative	Interior	Laundry Room	Door	Outer Door	Wood	White	B	Ctr	Deteriorated	0.2	Action Mode
206	Negative	Interior	Laundry Room	Door	Outer Trim	Wood	White	B	Rgt	Deteriorated	0.2	Action Mode
207	Negative	Interior	Laundry Room	Wall		Wood	Stain	C	Rgt	Intact	0.1	Action Mode
208	Negative	Interior	Laundry Room	Wall		Wood	Stain	D	Ctr	Intact	0.2	Action Mode
209	Negative	Interior	Laundry Room	Wall		Wood	White	D	Ctr	Intact	0.1	Action Mode

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Reading	Result	Room	Room Choice	Structure	Member	Substrate	Color	Wall	Location	Condition	Lead (mg/cm ²)	Mode
210	Negative	Interior	Laundry Room	Door, BR 2		Wood	Stain	D	Rgt	Deteriorated	0.1	Action Mode
211	Negative	Interior	Laundry Room	Door	Trim	Wood	White	D	Ctr	Deteriorated	0.1	Action Mode
212	Negative	Interior	Laundry Room	Ceiling		Wood	White		Rgt	Deteriorated	0.4	Action Mode
213	Negative	Exterior	Enclosed Front Porch	Wall	Support	Wood	Stain	A	Ctr	Deteriorated	0.1	Action Mode
214	Negative	Exterior	Enclosed Front Porch	Window	Sash	Metal	Gray	A	Lft	Intact	0.1	Action Mode
215	Negative	Exterior	Enclosed Front Porch	Window	Frame	Wood	Stain	A	Lft	Intact	0.1	Action Mode
216	Negative	Exterior	Enclosed Front Porch	Wall	Support	Wood	Stain	B	Ctr	Deteriorated	0.4	Action Mode
217	Negative	Exterior	Enclosed Front Porch	Window	Sash	Metal	Gray	B	Ctr	Intact	0.2	Action Mode
218	Negative	Exterior	Enclosed Front Porch	Window	Frame	Wood	Stain	B	Rgt	Intact	0.0	Action Mode
219	Positive	Exterior	Enclosed Front Porch	Wall	Crown Molding	Wood	White	C	Lft	Deteriorated	1.0	Action Mode
220	Negative	Exterior	Enclosed Front Porch	Window	Sash	Metal	Gray	D	Lft	Deteriorated	0.4	Action Mode
221	Negative	Exterior	Enclosed Front Porch	Window	Frame	Wood	Stain	D	Ctr	Intact	0.1	Action Mode
222	Negative	Exterior	Enclosed Front Porch	Door		Metal	Gray	D	Ctr	Intact	0.2	Action Mode
223	Negative	Exterior	Enclosed Front Porch	Door	Threshold	Wood	Brown	D	Ctr	Deteriorated	0.2	Action Mode
224	Positive	Exterior	Enclosed Front Porch	Ceiling		Wood	Stain		Rgt	Deteriorated	1.0	Action Mode
225	Negative	Exterior	Enclosed Front Porch	Ceiling	Trim	Wood	Stain		Lft	Deteriorated	0.9	Action Mode
226	Negative	Exterior	Enclosed Front Porch	Door	Drop Down	Wood	Stain		Ctr	Deteriorated	0.1	Action Mode
227	Negative	Exterior	Rear Covered Side Porch	Wall		Wood	White	A	Ctr	Deteriorated	0.1	Action Mode
228	Negative	Exterior	Rear Covered Side Porch	Wall		Wood	White	B	Ctr	Deteriorated	0.1	Action Mode

LEAD XRF INSPECTION REPORT

Inspection Date: 11/21/2023
 Action Level: 1.0 mg/cm2
 Total Readings: 273
 Unit Started: 11/21/2023 *09:45:27 AM
 Unit Finished: 11/21/2023 *13:33:34 PM

Inspection Site / Unit Address: 8 Gray Street, Single Family, Binghamton, NY
 Inspector: Michael J. Staudt LBP - R-17652-3
 Lead Gun: Heuresis Corporation Model Pb200i
 XRF Lead Paint Analyzer
 Serial No.: 2230
 App Version: Pb200i-4.1-11

Reading	Result	Room	Room Choice	Structure	Member	Substrate	Color	Wall	Location	Condition	Lead (mg/cm ²)	Mode
229	Negative	Exterior	Rear Covered Side Porch	Ceiling	Joist	Wood	White		Rgt	Deteriorated	0.4	Action Mode
230	Negative	Exterior	Rear Covered Side Porch	Stair	Kick Plate	Wood	Gray		Ctr	Deteriorated	0.3	Action Mode
231	Negative	Exterior	Building Exterior	Wall		Wood	Brown	A	Lft	Intact	0.0	Action Mode
232	Negative	Exterior	Building Exterior	Wall		Wood	Brown	B	Lft	Deteriorated	0.1	Action Mode
233	Positive	Exterior	Building Exterior	Wall	Lower	Concrete	Gray	B	Ctr	Deteriorated	2.6	Action Mode
234	Negative	Exterior	Building Exterior	Door, to BM		Wood	Tan	B	Rgt	Deteriorated	0.2	Action Mode
235	Negative	Exterior	Building Exterior	Door	Trim	Wood	Tan	B	Rgt	Deteriorated	0.6	Action Mode
236	Positive	Exterior	Building Exterior	Wall	Lower	Concrete	Gray	D	Rgt	Deteriorated	1.6	Action Mode
237	Positive	Exterior	Garage	Wall		Wood	White	A	Ctr	Deteriorated	1.6	Action Mode
238	Positive	Exterior	Garage	Wall	Upper	Wood	Red	A	Lft	Deteriorated	1.9	Action Mode
239	Positive	Exterior	Garage	Fascia		Wood	White	A	Ctr	Deteriorated	2.0	Action Mode
240	Positive	Exterior	Garage	Soffit		Wood	White	A	Lft	Deteriorated	1.9	Action Mode
241	Positive	Exterior	Garage	Overhead Door	Trim	Wood	White	A	Lft	Deteriorated	2.7	Action Mode
242	Positive	Exterior	Garage	Wall		Wood	White	B	Ctr	Deteriorated	1.4	Action Mode
243	Negative	Exterior	Garage	Wall	Corner Board	Wood	White	B	Rgt	Deteriorated	0.9	Action Mode
244	Negative	Exterior	Garage	Door		Wood	White	B	Lft	Deteriorated	0.4	Action Mode
245	Negative	Exterior	Garage	Door	Jamb	Wood	White	B	Rgt	Deteriorated	0.1	Action Mode
246	Negative	Exterior	Garage	Door	Stop	Wood	White	B	Ctr	Deteriorated	0.4	Action Mode
247	Negative	Exterior	Garage	Door	Trim	Wood	White	B	Ctr	Deteriorated	0.2	Action Mode

LEAD XRF INSPECTION REPORT

Inspection Date: 11/21/2023
 Action Level: 1.0 mg/cm2
 Total Readings: 273
 Unit Started: 11/21/2023 *09:45:27 AM
 Unit Finished: 11/21/2023 *13:33:34 PM

Inspection Site / Unit Address: 8 Gray Street, Single Family, Binghamton, NY
 Inspector: Michael J. Staudt LBP - R-17652-3
 Lead Gun: Heuresis Corporation Model Pb200i
 XRF Lead Paint Analyzer
 Serial No.: 2230
 App Version: Pb200i-4.1-11

Reading	Result	Room	Room Choice	Structure	Member	Substrate	Color	Wall	Location	Condition	Lead (mg/cm ²)	Mode
248	Positive	Exterior	Garage	Window	Sash	Wood	White	B	Ctr	Deteriorated	1.1	Action Mode
249	Positive	Exterior	Garage	Window	Sill	Wood	White	B	Ctr	Deteriorated	1.2	Action Mode
250	Positive	Exterior	Garage	Window	Stop	Wood	White	B	Lft	Deteriorated	2.2	Action Mode
251	Positive	Exterior	Garage	Window	Trim	Wood	White	B	Rgt	Deteriorated	1.6	Action Mode
252	Positive	Exterior	Garage	Window	Jamb	Wood	White	B	Ctr	Deteriorated	1.7	Action Mode
253	Positive	Exterior	Garage	Window	Trough	Wood	White	B	Ctr	Deteriorated	1.8	Action Mode
254	Positive	Exterior	Garage	Fascia		Wood	White	B	Rgt	Deteriorated	3.8	Action Mode
255	Positive	Exterior	Garage	Soffit		Wood	White	B	Rgt	Deteriorated	1.8	Action Mode
256	Positive	Exterior	Garage	Wall		Wood	White	C	Lft	Deteriorated	1.0	Action Mode
257	Positive	Exterior	Garage	Fascia		Wood	White	C	Rgt	Deteriorated	1.2	Action Mode
258	Positive	Exterior	Garage	Soffit		Wood	White	C	Ctr	Deteriorated	1.7	Action Mode
259	Positive	Exterior	Garage	Wall		Wood	White	D	Ctr	Deteriorated	1.4	Action Mode
260	Positive	Exterior	Garage	Window	Sash	Wood	White	D	Rgt	Deteriorated	1.5	Action Mode
261	Positive	Exterior	Garage	Window	Sill	Wood	White	D	Lft	Deteriorated	1.6	Action Mode
262	Positive	Exterior	Garage	Window	Stop	Wood	White	D	Rgt	Deteriorated	1.2	Action Mode
263	Positive	Exterior	Garage	Window	Trim	Wood	White	D	Ctr	Deteriorated	1.0	Action Mode
264	Positive	Exterior	Garage	Window	Jamb	Wood	White	D	Rgt	Deteriorated	2.1	Action Mode
265	Positive	Exterior	Garage	Window	Trough	Wood	White	D	Rgt	Deteriorated	1.9	Action Mode
266	Positive	Exterior	Garage	Fascia		Wood	White	D	Rgt	Deteriorated	1.4	Action Mode

LEAD XRF INSPECTION REPORT

Inspection Date: 11/21/2023
 Action Level: 1.0 mg/cm2
 Total Readings: 273
 Unit Started: 11/21/2023 *09:45:27 AM
 Unit Finished: 11/21/2023 *13:33:34 PM

Inspection Site / Unit Address: 8 Gray Street, Single Family, Binghamton, NY
 Inspector: Michael J. Staudt LBP - R-17652-3
 Lead Gun: Heuresis Corporation Model Pb200i
 XRF Lead Paint Analyzer
 Serial No.: 2230
 App Version: Pb200i-4.1-11

Reading	Result	Room	Room Choice	Structure	Member	Substrate	Color	Wall	Location	Condition	Lead (mg/cm ²)	Mode	
267	Positive	Exterior	Garage	Soffit		Wood	White	D	Lft	Deteriorated	1.3	Action Mode	
268	Calibration										1.0	Action Mode	
269	Calibration										1.0	Action Mode	
270	Calibration										1.0	Action Mode	
271	Calibration										0.1	Action Mode	
272	Calibration										0.1	Action Mode	
273	Calibration										0.1	Action Mode	
				***** END OF READINGS *****									

APPENDIX B

**8 Gray Street
Binghamton, NY 13904**

**Lead-Based Paint Report Form
As per NYS/HUD ≥ 1.0 mg/cm² Criteria**

Of the total 261 individual assays collected from interior/exterior painted surfaces present on the 8 Gray Street, Binghamton, NY structure; **fifty (50)** were positive for the presence of lead as per the NYS and HUD (≥ 1.0 mg/cm²) criteria.

Positive Assay LEAD XRF INSPECTION REPORT

Inspection Date: 11/21/2023
 Action Level: 1.0 mg/cm2
 Total Readings: 50
 Unit Started: 11/21/2023 *09:45:27 AM
 Unit Finished: 11/21/2023 *13:33:34 PM

Inspection Site / Unit Address: 8 Gray Street, Single Family, Binghamton, NY
 Inspector: Michael J. Staudt LBP - R-17652-3
 Lead Gun: Heuresis Corporation Model Pb200i
 XRF Lead Paint Analyzer
 Serial No.: 2230
 App Version: Pb200i-4.1-11

Reading	Result	Room	Room Choice	Structure	Member	Substrate	Color	Wall	Location	Condition	Lead (mg/cm ²)	Mode
7	Positive	Interior	Basement	Window 1	Sash	Wood	Gray	B	Rgt	Deteriorated	1.7	Action Mode
8	Positive	Interior	Basement	Window 1	Frame	Wood	Gray	B	Rgt	Deteriorated	1.5	Action Mode
9	Positive	Interior	Basement	Window 1	Outer Sash	Wood	Gray	B	Ctr	Deteriorated	5.4	Action Mode
10	Positive	Interior	Basement	Window 1	Outer Trim	Wood	Gray	B	Rgt	Deteriorated	11.0	Action Mode
11	Positive	Interior	Basement	Window 2	Sash	Wood	Gray	B	Lft	Deteriorated	1.2	Action Mode
12	Positive	Interior	Basement	Window 2	Frame	Wood	Gray	B	Lft	Deteriorated	1.9	Action Mode
13	Positive	Interior	Basement	Window 2	Outer Sash	Wood	Gray	B	Lft	Deteriorated	3.7	Action Mode
14	Positive	Interior	Basement	Window 2	Outer Trim	Wood	Gray	B	Lft	Deteriorated	8.4	Action Mode
37	Positive	Interior	Basement	Window 1	Sash	Wood	Gray	D	Lft	Deteriorated	1.0	Action Mode
38	Positive	Interior	Basement	Window 1	Frame	Wood	Gray	D	Lft	Deteriorated	1.1	Action Mode
39	Positive	Interior	Basement	Window 1	Outer Sash	Wood	Gray	D	Ctr	Deteriorated	2.6	Action Mode
40	Positive	Interior	Basement	Window 1	Outer Trim	Wood	Gray	D	Ctr	Deteriorated	6.1	Action Mode
41	Positive	Interior	Basement	Window 2	Sash	Wood	Gray	D	Rgt	Deteriorated	1.5	Action Mode
42	Positive	Interior	Basement	Window 2	Frame	Wood	Gray	D	Ctr	Deteriorated	1.1	Action Mode
43	Positive	Interior	Basement	Window 2	Outer Sash	Wood	Gray	D	Lft	Deteriorated	1.8	Action Mode
44	Positive	Interior	Basement	Window 2	Outer Trim	Wood	Gray	D	Lft	Deteriorated	8.5	Action Mode
62	Positive	Interior	Living Room	Window	Trough	Wood	Gray	A	Rgt	Deteriorated	2.0	Action Mode
63	Positive	Interior	Living Room	Window	Outer Sash	Wood	White	A	Rgt	Deteriorated	2.5	Action Mode
64	Positive	Interior	Living Room	Window	Outer Jamb	Wood	White	A	Rgt	Deteriorated	5.2	Action Mode

Positive Assay LEAD XRF INSPECTION REPORT

Inspection Date: 11/21/2023
 Action Level: 1.0 mg/cm2
 Total Readings: 50
 Unit Started: 11/21/2023 *09:45:27 AM
 Unit Finished: 11/21/2023 *13:33:34 PM

Inspection Site / Unit Address: 8 Gray Street, Single Family, Binghamton, NY
 Inspector: Michael J. Staudt LBP - R-17652-3
 Lead Gun: Heuresis Corporation Model Pb200i
 XRF Lead Paint Analyzer
 Serial No.: 2230
 App Version: Pb200i-4.1-11

Reading	Result	Room	Room Choice	Structure	Member	Substrate	Color	Wall	Location	Condition	Lead (mg/cm ²)	Mode
65	Positive	Interior	Living Room	Window	Outer Trim	Wood	White	A	Lft	Deteriorated	4.7	Action Mode
219	Positive	Exterior	Enclosed Front Porch	Wall	Crown Molding	Wood	White	C	Lft	Deteriorated	1.0	Action Mode
224	Positive	Exterior	Enclosed Front Porch	Ceiling		Wood	Stain		Rgt	Deteriorated	1.0	Action Mode
233	Positive	Exterior	Building Exterior	Wall	Lower	Concrete	Gray	B	Ctr	Deteriorated	2.6	Action Mode
236	Positive	Exterior	Building Exterior	Wall	Lower	Concrete	Gray	D	Rgt	Deteriorated	1.6	Action Mode
237	Positive	Exterior	Garage	Wall		Wood	White	A	Ctr	Deteriorated	1.6	Action Mode
238	Positive	Exterior	Garage	Wall	Upper	Wood	Red	A	Lft	Deteriorated	1.9	Action Mode
239	Positive	Exterior	Garage	Fascia		Wood	White	A	Ctr	Deteriorated	2.0	Action Mode
240	Positive	Exterior	Garage	Soffit		Wood	White	A	Lft	Deteriorated	1.9	Action Mode
241	Positive	Exterior	Garage	Overhead Door	Trim	Wood	White	A	Lft	Deteriorated	2.7	Action Mode
242	Positive	Exterior	Garage	Wall		Wood	White	B	Ctr	Deteriorated	1.4	Action Mode
248	Positive	Exterior	Garage	Window	Sash	Wood	White	B	Ctr	Deteriorated	1.1	Action Mode
249	Positive	Exterior	Garage	Window	Sill	Wood	White	B	Ctr	Deteriorated	1.2	Action Mode
250	Positive	Exterior	Garage	Window	Stop	Wood	White	B	Lft	Deteriorated	2.2	Action Mode
251	Positive	Exterior	Garage	Window	Trim	Wood	White	B	Rgt	Deteriorated	1.6	Action Mode
252	Positive	Exterior	Garage	Window	Jamb	Wood	White	B	Ctr	Deteriorated	1.7	Action Mode
253	Positive	Exterior	Garage	Window	Trough	Wood	White	B	Ctr	Deteriorated	1.8	Action Mode
254	Positive	Exterior	Garage	Fascia		Wood	White	B	Rgt	Deteriorated	3.8	Action Mode
255	Positive	Exterior	Garage	Soffit		Wood	White	B	Rgt	Deteriorated	1.8	Action Mode

Positive Assay LEAD XRF INSPECTION REPORT

Inspection Date: 11/21/2023
 Action Level: 1.0 mg/cm2
 Total Readings: 50
 Unit Started: 11/21/2023 *09:45:27 AM
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Inspection Site / Unit Address: 8 Gray Street, Single Family, Binghamton, NY
 Inspector: Michael J. Staudt LBP - R-17652-3
 Lead Gun: Heuresis Corporation Model Pb200i
 XRF Lead Paint Analyzer
 Serial No.: 2230
 App Version: Pb200i-4.1-11

Reading	Result	Room	Room Choice	Structure	Member	Substrate	Color	Wall	Location	Condition	Lead (mg/cm ²)	Mode	
256	Positive	Exterior	Garage	Wall		Wood	White	C	Lft	Deteriorated	1.0	Action Mode	
257	Positive	Exterior	Garage	Fascia		Wood	White	C	Rgt	Deteriorated	1.2	Action Mode	
258	Positive	Exterior	Garage	Soffit		Wood	White	C	Ctr	Deteriorated	1.7	Action Mode	
259	Positive	Exterior	Garage	Wall		Wood	White	D	Ctr	Deteriorated	1.4	Action Mode	
260	Positive	Exterior	Garage	Window	Sash	Wood	White	D	Rgt	Deteriorated	1.5	Action Mode	
261	Positive	Exterior	Garage	Window	Sill	Wood	White	D	Lft	Deteriorated	1.6	Action Mode	
262	Positive	Exterior	Garage	Window	Stop	Wood	White	D	Rgt	Deteriorated	1.2	Action Mode	
263	Positive	Exterior	Garage	Window	Trim	Wood	White	D	Ctr	Deteriorated	1.0	Action Mode	
264	Positive	Exterior	Garage	Window	Jamb	Wood	White	D	Rgt	Deteriorated	2.1	Action Mode	
265	Positive	Exterior	Garage	Window	Trough	Wood	White	D	Rgt	Deteriorated	1.9	Action Mode	
266	Positive	Exterior	Garage	Fascia		Wood	White	D	Rgt	Deteriorated	1.4	Action Mode	
267	Positive	Exterior	Garage	Soffit		Wood	White	D	Lft	Deteriorated	1.3	Action Mode	
				***** END OF READINGS *****									



860 Hooper Road
Endwell, NY 13760
Tel: 607.231.6600
Fax: 607.231.6650
www.delta-eas.com

APPENDIX C

**8 Gray Street
Binghamton, NY 13904**

License and Certification Paperwork

United States Environmental Protection Agency

This is to certify that

Delta Engineers, Architects & Land Surveyors, P.

C.

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires August 10, 2025

LBP-68796-3

Certification #

June 16, 2022

Issued On



A handwritten signature in black ink that reads "Michelle Price".

Michelle Price, Chief

Lead, Heavy Metals, and Inorganics Branch

United States Environmental Protection Agency

This is to certify that



Michael John Staudt

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires September 18, 2025

LBP-R-17652-3

Certification #

August 19, 2022

Issued On



A handwritten signature in black ink that reads "Ben Conetta".

Ben Conetta, Chief

Chemicals and Multimedia Programs Branch

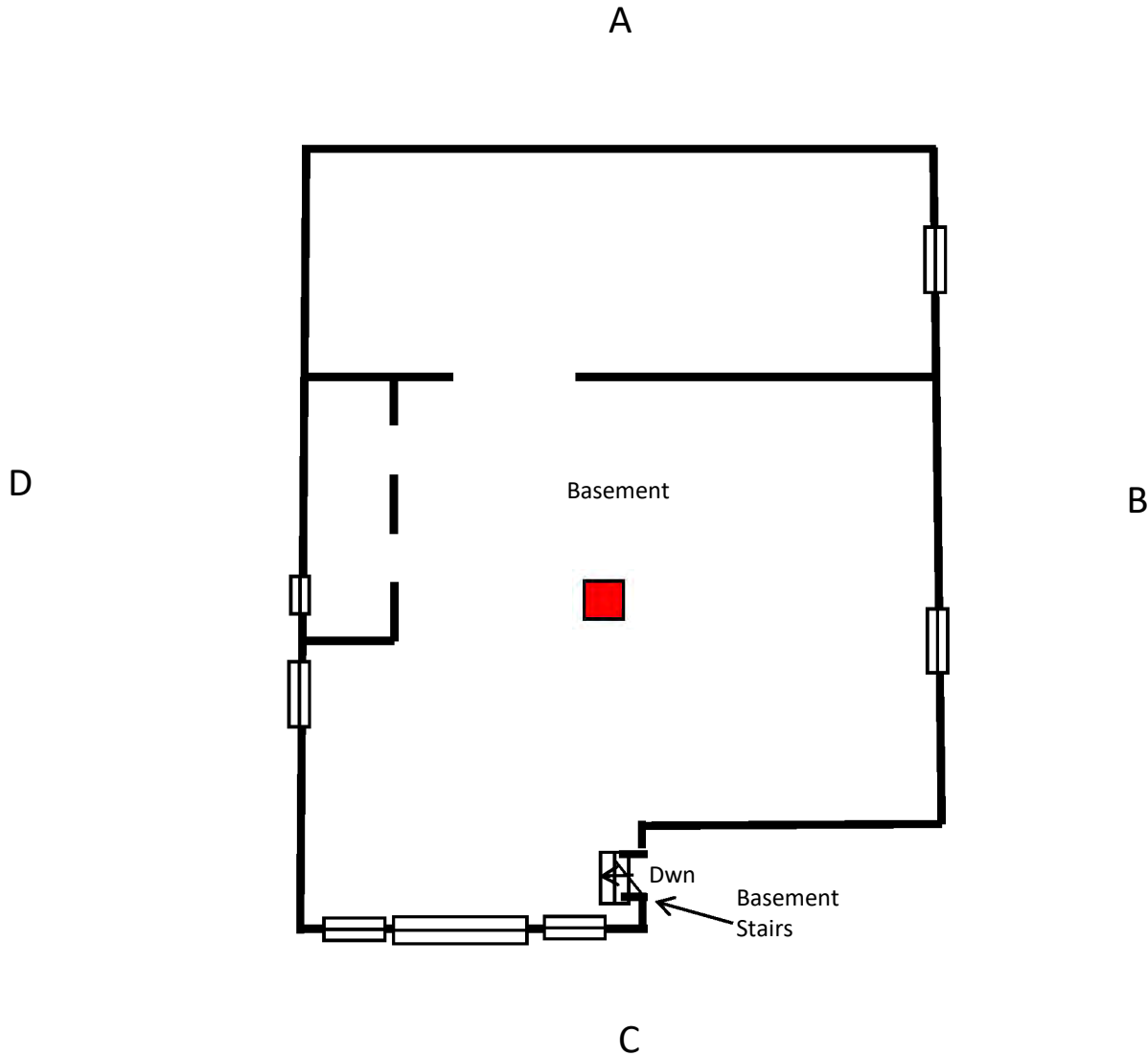


860 Hooper Road
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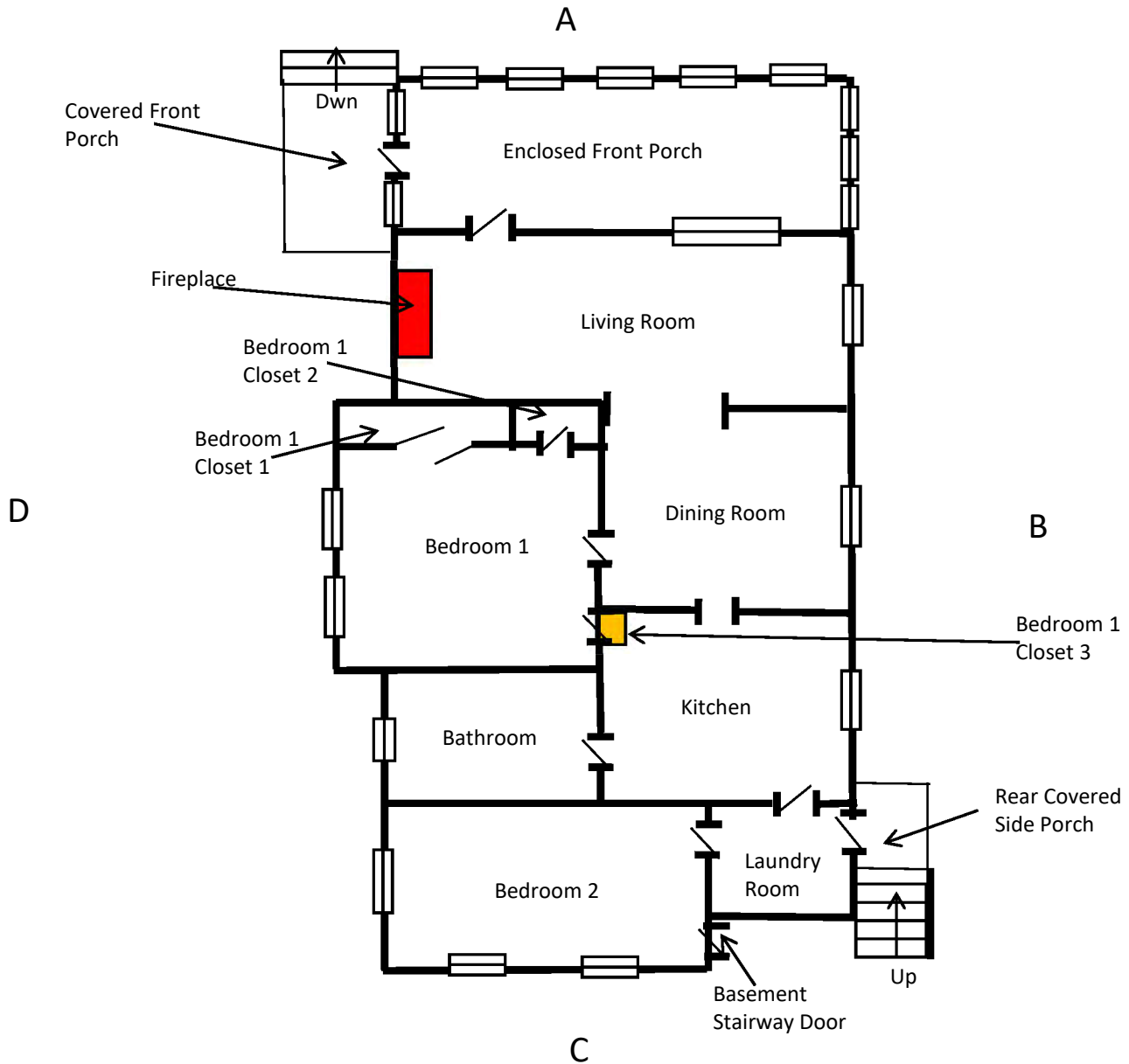
APPENDIX D

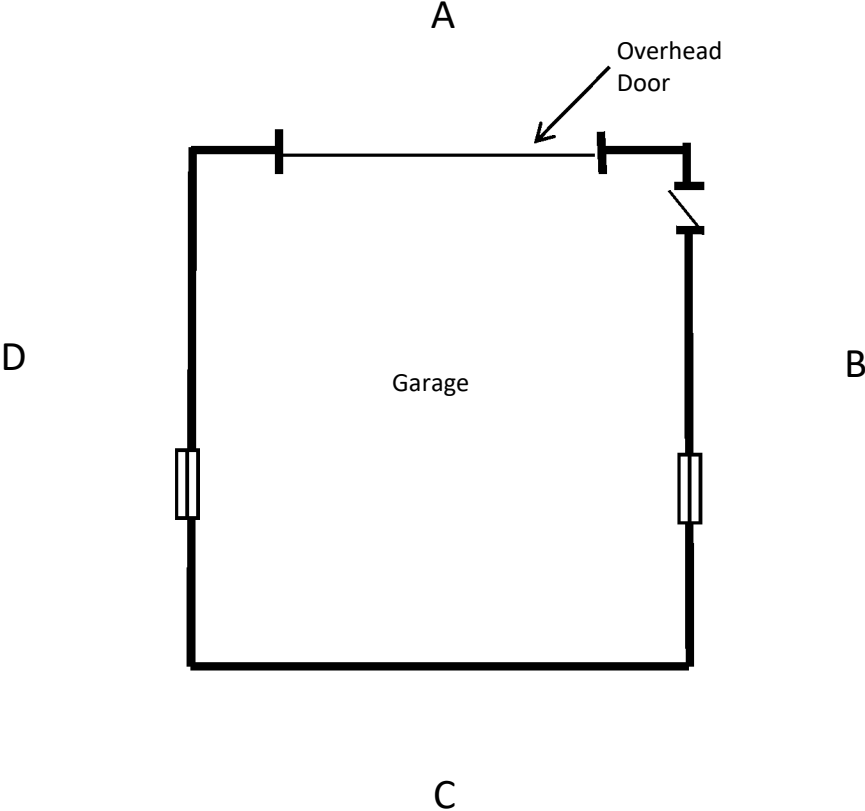
**8 Gray Street
Binghamton, NY 13904**

Drawings



8 Gray Street , 1st Floor, Binghamton, NY 13904







860 Hooper Road
Endwell, NY 13760
Tel: 607.231.6600
Fax: 607.231.6650
www.delta-eas.com

APPENDIX E

**8 Gray Street
Binghamton, NY 13904**

Heuresis Pb200i Performance Characteristic Sheet

Performance Characteristic Sheet

EFFECTIVE DATE: June 12, 2017

MANUFACTURER AND MODEL:

Make: *Heuresis*
 Models: *Model Pb200i with Internal Read -Through Adapter (RTA) Installed*
 Source: *⁵⁷Co, 5 mCi (nominal – new source)*
 Software Version: *4.0 or higher*

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Action Level mode

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm² (inclusive)

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

ACTION LEVEL MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm ²)	
		RTA Not Present (OFF)	RTA Present (ON)
Results not corrected for substrate bias on any substrate	Brick	1.0	0.9
	Concrete	1.0	0.9
	Drywall	1.0	0.9
	Metal	1.0	0.9
	Plaster	1.0	0.9
	Wood	1.0	0.9

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated using test results on building components in the HUD archive. Testing was conducted on 146 test samples in May 2017, with two separate instruments running software version 4.0 in Action Level test mode, each sample being tested both with RTA "present" (ON position) and RTA "not present" (OFF position). The actual source strength of each instrument on the day of testing was approximately 5.0 mCi; sources were new.

OPERATING PARAMETERS

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

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

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

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm² for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm² at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm². Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

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

For each substrate type (the 1.02 mg/cm² NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

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

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

EVALUATING THE QUALITY OF XRF TESTING:

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

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below. Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

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

Square the average for each testing combination.

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

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

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

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

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

Compute the average of all ten original XRF readings.

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

Find the absolute difference of the two averages.

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

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

TESTING TIMES:

In the Action Level paint test mode, the instrument takes the longest time to complete readings for lead levels close to the Federal standard of 1.0 mg/cm². The table below shows the mean and standard deviation of actual reading times by reported lead level for paint samples during the June 2017 archive testing. The tested instruments reported lead levels to one decimal place. These times apply only to instruments with a new source (5.0 mCi). Instruments with weaker (older) sources will have longer reading times than those in the table.

Mean and Standard Deviation of Reading Times in Action Level Mode by Reported Lead Level				
Reported Lead Level (mg/cm²)	Mean Reading Time (seconds)		Standard Deviation (seconds)	
	RTA ON	RTA OFF	RTA ON	RTA OFF
< 0.7	2.27	1.64	0.72	0.51
0.7 – 1.3	8.61	4.39	0.21	1.76
≥ 1.4	2.24	1.50	0.69	0.58

CLASSIFICATION OF RESULTS:

XRF results are classified as **positive** if they are **greater than or equal** to the stated threshold for the instrument (with RTA ON, 0.9 mg/cm²; with RTA OFF, 1.0 mg/cm²), and *negative* if they are *less than* the threshold.

DOCUMENTATION:

A report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008) provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. The report may be downloaded at <http://www2.epa.gov/lead/methodology-xrf-performance-characteristic-sheets-epa-747-r-95-008-september-1997>.

This XRF Performance Characteristic Sheet (PCS) was developed by QuanTech, Inc., under a contract with the XRF manufacturer.