STAFF REPORT
CONCERNING APPLICATION FOR A
CERTIFICATE OF APPROPRIATENESS

Date: January 9, 2019
Application Number: 2019-0109B
Property Location: 815 Leland Avenue
Architectural Style/Date/Architect or Builder: Gabled-ell / 1900
Property Owner: Julian and Emily Dean
Landmark or District Designation: Chapin Park Local and National Historic District, Ordinance #9574-05
Rating: *Contributing*

DESCRIPTION OF STRUCTURE/SITE: This 2 story irregular frame house sets upon a brick foundation facing east on Leland Avenue. The roof is pyramidal with gables, a simple cornice, and asphalt shingles. The porch is house-width with brick piers, railings, and a simple fascia. The windows are predominantly 1/1 vinyl double hung with molded entabulatures. An oval window with wedge-shaped brackets faces the street on the second story.

ALTERATIONS: COA 2013-0924 called for repointing "brick with lime putty; replace brick in-kind and replace wood siding in the rear." COA 2017-1002D allowed for the construction of a privacy fence around the side and rear yard.

APPLICATION ITEMS: *"Remove and replace front porch crown molding with similar product. Install double-4 vinyl siding over existing wood-lap siding on home and garage. See picture. Color TBD. Enclose all window and door trim with vinyl or aluminum. See picture. Enclose soffit and fascia, on home and garage, with aluminum soffit and fascia panel. See picture. Color TBD. Fully strip and repaint front entrance framing and jamb. Color TBD. Replace south facing entrance door and frame with a pre-hung half-lite steel door. See picture. Remove and replace window #5 with white vinyl double hung replacement window. Exterior trim to be wrapped in aluminum. See picture."*

DESCRIPTION OF PROPOSED PROJECT: The applicant (Indiana Community Action Association) seeks approval for the following lead remediation projects, to be bid out to final contractor at a later date:

1. Installation of double-4 vinyl siding over the existing wood-lap siding with a vapor barrier beneath on both the garage and the house,
    a. Rear second story gable is clad in wood shingles, this section will be replaced with the same siding as the remainder of the house,
2. Removal of original wooden decorative crown molding elements and replacement with *"similar product,"*
3. *"Enclose all lead painted trim with vinyl or aluminum ventilating soffit panels, coil stock, and field fabricated trim accessories in accordance with manufacturer's specifications,"*
4. *"Enclose soffit and fascia with aluminum soffit / fascia panels,"*
5. Enclose all window and door trim (unless specifically mentioned otherwise) with vinyl or aluminum products,
6. Remove and replace south-facing entrance door (referenced on side B) with *"Energy Star Rated pre-hung metal, insulated, half-glass entrance door system with interior casing and trim as needed,"*
    a. The exterior wood frame will be covered as above with aluminum,
7. Remove and replace window (referenced as ground floor window #5 on side C) with a *"white, vinyl, double hung, replacement style, Energy Star Rated, Argon filled, Low E coated glass, one-over-one window,"*
8. Remove and replace window components (including sills and casings), inside and out, with new wood material,
    a. Window 4 on side B,
    b. Window 11 and 16 on second story of side A,
    c. Window 12 and 13 on second story of side B,
9. Strip and repaint the following:
    a. Front entrance door,
    b. Oval second story window (referenced as window #16 in the application's supporting documents),

In addition to the above listed items, various internal remediation efforts will be initiated that are beyond the scope of the Historic Preservation Commission's purview.

All exterior surfaces were assessed by Amereco Engineering of Valparaiso, IN on August 14th, 2018. **One hundred fifty-two (152) readings were collected from the exterior of the structure and one hundred twenty-one (121 -or approximately 80%) returned a 'Positive' test for Lead Based Paint (LBP).** The highest readings of the entire site (both inside and out) were returned from the exterior of the garage, with the garage fascia returning a 23.5 mg/cm^2 reading.

PRESERVATION INSPECTOR REPORT: N/A

STANDARDS AND GUIDELINES: CHAPIN PARK

II. EXISTING STRUCTURES

A. BUILDING MATERIALS

Original exterior building materials in the district include brick, stucco, clapboard, wood shingles, and brick or stone masonry. In some instances, vinyl, composite and aluminum siding have been applied over the original material.

Required

Original exterior building materials shall be retained when possible. Deterioration of wood materials shall be prevented through repair, cleaning and painting. The existing architectural detail around windows, porches, doors and eaves shall be retained or replaced by replicas of the same design when deteriorated beyond repair.

Masonry, including brick and stucco structures, shall be maintained, and properly cleaned only when necessary to halt deterioration or to remove stains and shall be done in a method acceptable for the preservation of the surface: i.e. low-pressure water and soft natural bristle brushes. Brick or masonry mortar joints should be repointed only when there is evidence of moisture problems, or when sufficient mortar is missing to allow water to stand in the mortar joint. Existing mortar shall be duplicated in composition, color, texture, joint size, method of application and joint profile.

When repairing stucco, stucco mixture shall be used. A professional shall make a study of the old stucco, to determine the exact mixture and underlayment used in the original work. Some repair methods are not compatible with the original techniques and may cause early disintegration of the repair work and the original work.

Ample ventilation must be afforded the structure when siding is installed, in order to prevent increased deterioration of the structure from moisture and insects.

Recommended

Whenever possible, the original building materials should be restored. When maintaining or repairing original siding is not feasible, aluminum, vinyl or composite siding may be used. When used over wood surfaces, this siding should be the same size and style as the original wood. Every effort should be made to retain the original trim around windows, doors, cornices gables, eaves and other architectural features.

[…]

B. ROOFS AND ROOFING

Roof shapes in the district encompass all the various designs found in residential structures: hipped, gabled, gambrel, flat and combinations of these. Roofs are covered with a variety of materials such as asphalt, asbestos, wood and slate shingles as well as clay tiles. Residences in most cases have wood fascias with gutters and downspouts. The fascias of some vinyl- and aluminum-sided houses are covered with the same materials.

Required

The existing shape and type of materials of the roof shall be retained. All architectural features, which give the roof its essential character, shall be retained, including dormer windows, cupolas, cornices, brackets, chimneys, cresting and weather vanes.

Recommended

The original shape and materials of the roof should be restored. Particular effort should be made to retain materials such as slate, tile and other unique materials not commonly found in new construction. Roof covering which is deteriorated beyond repair should be replaced with new material that matches as closely as possible the original in composition, size, shape, color and texture. Gutters and downspouts are often a necessary adjunct in order to prevent deterioration of the structure; they should be maintained whenever possible or replaced with a style comparable and suitable to the architectural period.

Prohibited

Nothing shall be done to change the essential character of the roof as viewed from a street by adding architectural features or large unsightly fixtures, or by using materials inappropriate to the style of the house. The roof shall not be stripped of architectural features important to its character.

Not Recommended

Overhanging eaves, soffit, brackets and gables should not be covered or enclosed when adding siding to a building.

C. WINDOWS AND DOORS

Window and door frames are in most cases wood and vary depending upon the style of the home. Many are double-hung windows with wood trim and sills. Brick structures have stone sills and brick lintels. In some cases where aluminum siding has been applied, the window and door trim has been covered. About half of the structures in the district have aluminum storm windows; the other half have wood storm windows.

Required

Original windows and doors shall be retained including sashes, lintels, sills, shutters, decorative glass, pediments, hoods and hardware. When deteriorated beyond repair, they shall be replaced with units and trim resembling the original.

Recommended

Wood storm windows and doors painted or finished to match the original should be used but should not damage existing frames. If new sashes or doors are installed, the existing or original materials, design and hardware should be used. When metal storm doors are used, they should be painted, anodized or coated to match the existing. When awnings are used, they should be of canvas material.

D. ENTRANCES, PORCHES AND STEPS

Most houses in the district have either an open or enclosed porch across the front. Most porches have either hip or gabled roofs or are covered by the main roof of the house.

Required

When deteriorated beyond repair, existing or original porches, stoops, patios and steps, including handrails, balusters, columns, brackets, tiles and roof decorations, shall be retained or replaced by replicas of the same design or by a design more in keeping with the historic period of the structure.

Porches and additions reflecting later architectural styles and which are important to the building's historical integrity shall be retained.

Recommended

When enclosing porches for heat conservation or for other reasons, it should be done in a manner that does not alter the architectural or historical character of the building.

Not Recommended

Original porch details should not be replaced with materials representing a different period or style from the original.

[…]

VI. ENFORCEMENT PROCEDURES

[…]

This ordinance, however, does not prevent the ordinary maintenance and repair of any building or structure which does not involve a change in any exterior feature, nor does it prevent the reconstruction, alteration, demolition or moving of any building or structure which the Building Commissioner or other official has determined to be a hazard to public safety.

[…]

In making its determination, the Historic Preservation Commission shall consider three factors: first, the appropriateness of the proposed work to the preservation of the building and district; second, the detriment to the public welfare if the proposed work is permitted even though it is not deemed appropriate; third, the potential hardship that the denial of the Certificate of Appropriateness would cause the applicant.

STAFF RECOMMENDATION: The Chapin Park Standards and Guidelines allow for the installation of vinyl siding over original siding material when the latter has been determined to be *deteriorated beyond repair.* The exterior cladding of the house – although recently painted – returned evidence of elevated levels of ***Lead Based Paint*** in 80% of the tested areas. Bearing this in mind, encapsulation is an accepted form of remediation for Lead Based Paint hazards, and will afford the homeowner (at least) twenty-five years of safe environment to raise their children in.

Based upon the willingness of the contractor (and the homeowner) to retain and remediate specific character-defining features of the house, as well as the overwhelming majority of the windows having already been replaced with vinyl windows, Staff recommends approval of this project with the condition that – upon the bid being awarded by Indiana Community Action Association – the contractor executing the work return to the Historic Preservation Staff with specific product information for the installed products.

Written by
Adam Toering
Historic Preservation Specialist

Approved by
Elicia Feasel
Historic Preservation Administrator

Sanborn and Satellite Imagery

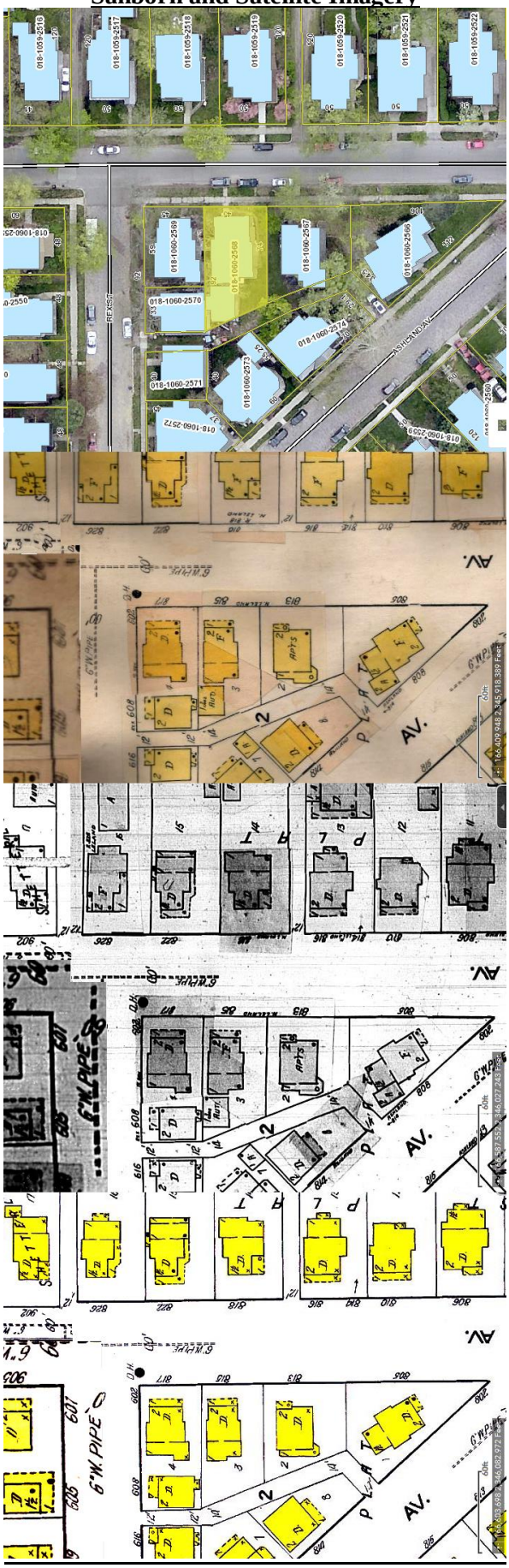


Diagram 1 - Sanborn imagery from 1917, 1945, 1960, and satellite imagery from 2017

815 Leland, Front / Side A

815 Leland - South Side / Side B

815 Leland - West Side / Side C.
Window #5 at right.

815 Leland - North Side / Side D

815 Leland - North Side / Side D

815 Leland - Side A, second story, Window 16

Garage at rear of property

817 Leland - Clad in vinyl siding and exhibiting compromised exterior details around oval window.

HISTORIC PRESERVATION COMMISSION

OF SOUTH BEND AND ST. JOSEPH COUNTY

County—City Building, South Bend, IN 46601
http://www.southbendin.gov/government/department/community-investment
Phone: 574/235.9371 Fax: 574/235.9021
Email: **hpcsbsjc@southbendin.gov**

A Certified Local Government of the National Park Service

Elicia Feasel, Historic Preservation Administrator

APPLICATION FOR A — CERTIFICATE OF APPROPRIATENESS

*OFFICE USE ONLY>>>>>>*DO NOT COMPLETE ANY ENTRIES CONTAINED IN THIS BOX*<<<<<<OFFICE USE ONLY*

Date Received: 1-7-2019 **Application Number:** _____

Past Reviews: ☐ **YES** *(Date of Last Review)* _____ ☐ **NO**

Staff Approval authorized by: _____ **Title:** _____

Historic Preservation Commission Review Date: _____

☐ **Local Landmark** ☐ **Local Historic District** *(Name)* Chapin Park

☐ **National Landmark** ☐ **National Register District** *(Name)* Chapin Park

Certificate Of Appropriateness:
☐ **Denied** ☐ **Tabled** ☐ **Sent To Committee** ☐ **Approved and issued:** _____

Address of Property for proposed work: 815 Leland Ave. South Bend, IN 46616
(Street Number—Street Name—City—Zip)

Name of Property Owner(s): Emily and Julian Dean **Phone #:** 856-904-4485

Address of Property Owner(s): 815 Leland Ave. South Bend, IN 46616
(Street Number—Street Name—City—Zip)

Name of Contractor(s): Justin Tyrrell **Phone #:** 800-382-9895

Contractor Company Name: Indiana Community Action Association

Address of Contractor Company: 1845 W 18th St. Indianapolis, IN 46220
(Street Number—Street Name—City—Zip)

Current Use of Building: Single Family
(Single Family—Multi-Family—Commercial—Government—Industrial—Vacant—etc.)

Type of Building Construction: Wood Frame
(Wood Frame—Brick—Stone—Steel—Concrete—Other)

Proposed Work: *(more than one box may be checked)* ☐ **Landscape** ☐ **New** ☒ **Replacement** *(not in-kind)* ☐ **Demolition**

Description of Proposed Work: Remove and replace front porch crown molding with similar product.
Install double-4 vinyl siding over existing wood-lap siding on home and garage. See picture. Color TBD. Enclose all window and door trim with vinyl or aluminum. See picture.
Enclose soffit and fascia, on home and garage, with aluminum soffit and fascia panel. See picture. Color TBD. Fully strip and repaint front entrance framing and jamb. Color TBD. Replace south facing entrance door and frame with a pre-hung half-lite steel door.
See Picture. Remove and replace window # 5 with white vinyl double hung replacement window. Exterior trim to be wrapped in aluminum. See picture.

Owner e-mail: emily.k.holloway@gmail.com **and/or Contractor e-mail:** jtyrrell@incap.org

X _____ **and/or** X _____
Signature of Owner **Signature of Contractor**

By signing this application I agree to abide by all local regulations related to project and to obtain a Building Department Permit, if applicable.

—APPLICATION REQUIREMENTS ARE LISTED ON REVERSE SIDE—

Windows

White, vinyl, double hung, replacement style, Energy Star Rated, Argon filled, Low E coated glass, one-over-one window. This will include a insect screen, interior stop and exterior trim wrapped with aluminum.

Product to be used- Pella 250 series OR similar product

Doors

White Energy Star Rated pre-hung metal, insulated, half-glass, entrance door system with interior casing and trim as needed. Supply and install one entrance and one mortised deadbolt - keyed alike and a wide angle peep sight. Provide an appropriate finish for all new material, wrap exterior wood frame with aluminum.

Product to be used- Therma-Tru Benchmark Doors Half Lite Simulated Divided Light OR similar product

Siding

Apply a nonwoven vapor barrier with taped seams and opening flashing to enclose the lead paint or apply 1/4" permeable rigid or fanfold insulation as a paint barrier and substrate for siding materials. Install double-4 vinyl siding, owner selection of standard colors. Enclose all lead painted trim with vinyl or aluminum ventilating soffit panels, coil stock and field-fabricated trim accessories in accordance with manufacturer's specifications. Caulk all joints and seams of lead painted trim with 25-year caulk.

Product to be used- Georgia Pacific Vision Double 4’ Siding OR similar product

Soffit, Fascia, and trim

Enclose soffit and fascia with aluminum soffit / fascia panels, color selected by owner. Back caulk all seams with siliconized acrylic to create a weathertight seal.

Product to be used- Durabuilt Triple 4” Aluminum Soffit and Smooth Fascia and trim Trim Coil OR similar product

East Elevation (Side A)

South West Elevation (Side B)

West Elevation (Side C)

North East Elevation (Side D)

Garage

Dear Historic Preservation Commission, 1/13/2019

Please accept this brief letter to accompany the application you are currently considering for several projects at my home at 815 Leland Avenue. My husband and I are raising our two sons, Finn age 4, Declan age 2, here, and we feel so fortunate to have landed in a charming neighborhood. This past August a Lead Risk Assessment performed at our home revealed that we had a substantial amount of lead hazards both on the interior and exterior of our home. This was very alarming. My children are currently within the age range where exposure to lead, even at very low levels, can have a profound effect on their physical, emotional, and intellectual development which will inturn have a profound impact on the course of their lives. Naturally, we sought help in dealing with this issue. Due to the pervasiveness of lead in our home, we were so grateful to qualify for funds through the Lead Protection Program grants.

The funds offered through this grant would be transformative for the way my family can interact with our home. It would allow us to address hazardous areas in and around our home all at one time, and alleviate worries of lead exposure while our children are still at these vulnerable ages. Otherwise, the scale of this project would take us years to afford by doing piecemeal projects and would increase our children's exposure to this toxic chemical.

We love our historic home; we love our neighborhood, but we need to make it safe for our children. Unfortunately, our beautiful home was built at a time in our nation's past when toxic materials were routinely used to decorate the interior and exterior of people's most personal spaces. Our home was built in 1901 to be beautiful and unwittingly toxic. So here we are, in 2019, learning how to adapt what is precious about our homes to safety standards current research recommends.

I understand that some aspects of the project proposal seem to be pushing the boundaries of what are customarily approved by the Commission, and I hope you will take our children's safety and our financial limitations into consideration. I look forward to discussing how we can find common ground between preserving an aesthetic and ensuring the safety of my children and any children who live in this house in years to come and ultimately, how we can take another step towards making this a safe, historic district.

Best Regards,

Emily Dean
815 Leland Avanue
South Bend, IN 46616
P - 856.904.4485
M - emily.k.holloway@gmail.com

SPECS BY LOCATION/TRADE with Costs

12/17/2018

Pre-Bid Site Visit: _____ **Case Number:** _____

Bidding Open Date: _____ **Project Manager:** _____

Bidding Close Date: _____ **Phone:** _____

Initial: _____

Address: 815 Leland Avenue **Unit: Unit 01**

Location: 1 - General Requirements Approx. Wall SF: 0 Ceiling/Floor SF: 0

Spec #	Spec	Quantity	Units	Unit Price	Total Price
Trade: 219	**Lead Abatement - INCAA Program**				
LBPGC01	**CONSTRUCTION PERFORMANCE STANDARDS** It is the Bidding Contractor's responsibility to have all bids comply with the Programs Residential Construction Performance Standards and to include in every bid all items associated with the written scope item (i.e. Scope written as stabilize paint, it is the contractor's responsibility to include needed items such as plastic, tape, HEPA vacuum, scrapers, paint, etc.).	1.00	AL	n/a	n/a
LBPGC02	**LEAD-SPECIFIC LAWS, RULES, REGULATIONS & GUIDELINES** The execution of this work shall comply with all applicable federal, state and local laws, rules, regulations and guidelines for lead dust environments, including but not limited to: 29 CFR 1926.62 - Lead Construction Standard; 29 CFR1910.1200 - Hazard Communication Standard; 40 CFR Part 745 - Lead-Based Paint Poisoning Prevention in Certain Residential Structures (EPA Regulations); 24 CFR Part 35 - HUD's Lead Safe Housing Rule.	1.00	GR	n/a	n/a
LBPGC03	**PAINT COLOR** Owner's choice of color or match existing paint color as close as possible when applicable.	1.00	AL	n/a	n/a
LBPGC04	**NOTIFICATION REQUIREMENTS** Make applicable notifications to state or local agencies, create occupant protection plan, post job signs and secure lead hazard reduction sites. If project includes Lead Abatement, Contractor will be responsible for ISDH Notification and applicable fees.	1.00	EA	$100.00	$100.00
LBPGC05	**WORKER TRAINING AND SUPERVISION - ABATEMENT** All workers conducting "abatement" lead hazard reduction activities must be trained and certified as lead abatement workers and provide proof of valid state or EPA-approved licenses or certificates. All persons acting as supervisors during "abatement" lead hazard reduction activities must be trained and certified as lead abatement supervisors and provide proof of valid state or EPA-approved licenses or certificates.	1.00	AL	n/a	n/a
LBPGC06	**OCCUPANT PROTECTION** Unit is occupied. Treatment of the dwelling unit interior is to be completed within 5 calendar days, the work site will be contained as to prevent the release of leaded dust and debris into nonwork areas, treatment will not create other safety, health or environmental hazards; and, at the end of the work on each day, the work site and the area within at least 10 feet of the containment area will be cleaned to remove any visible dust and debris, and occupants will have safe access to sleeping areas,	1.00	EA	$500.00	$500.00

Spec #	Spec	Quantity	Units	Unit Price	Total Price
Trade: 219	**Lead Abatement - INCAA Program**				
	a bathroom and kitchen facilities. Occupants will not be permitted to enter the work site during the lead hazard reduction activities until after the lead abatement project has been completed and clearance is achieved. Contractor is responsible for ensuring occupant protection is completed in accordance with HUD rules and regulations.				
LBPGC07	**QUANTITY VERIFICATION** The quantities herein expressed within the specification are for informational purposes only. Contractors shall be responsible for obtaining their own quantity schedule. INCAA shall not be held liable for any difference in estimated and actual quantities; therefore, change orders will not be approved for differences in quantities. Contractors shall immediately notify the INCAA during the bidding process if field measurements vary significantly from those estimated within this specification. Contractor's bid shall be reflective of completing specified work to eliminate lead hazards at the project site.	1.00	AL	n/a	n/a
LBPGC08	**CLEAN TO CLEARANCE** After completion of all lead hazard reduction activities, all work areas shall be cleaned for clearance. Typical work practices include, but are not limited to: wet mist, fold and remove all containment polyethylene sheeting; HEPA vacuum all visible surfaces including walls, floors, ceilings and window troughs from the top down; detergent scrub all horizontal surfaces in small sections using a 3-bucket system, changing rinse water every 250 SF; completely rinse with clean water and new equipment. After surfaces are dry, HEPA vacuum all visible surfaces except ceiling.	1.00	RM	$110.00	$110.00
LBPGC09	**WALL NAMING PROTOCOLS** Walls and attached components shall be identified with the letters A, B, C & D. Wall A is always the wall that is closest to the address elevation or the "street side" of the house. Moving clockwise, the walls are then B, C, D. Windows are provided a numerical number, which is reflected on the site plans included in the Lead Inspection & Risk Assessment Report.	1.00	EA	n/a	n/a
LBPGC10	**BUILDING PERMIT REQUIRED** The contractor is responsible for submitting this owner-prepared work write up to the building department, applying for, paying for and receiving a building permit(s) prior to starting any work.	1.00	EA	$250.00	$250.00
LBPGC11	**OWNER RESPONIBILITIES** The owner shall provide: 1. Utilities and sanitary facilities. 2. Remove all personnel items from work area. 3. All full and complete access to work areas. 4. Allow site access during normal work areas.	1.00	DU	n/a	n/a

Location Total: $960.00

Address: 815 Leland Avenue **Unit: Unit 01**

Location: 2 - Exterior Approx. Wall SF: 0 Ceiling/Floor SF: 0

Spec #	Spec	Quantity	Units	Unit Price	Total Price
Trade: 9	**Environmental Rehab**				
LBPPR01	**REMOVE PAINT- CHEMICAL** Prepare area and protect adjacent areas not being stripped in accordance with manufacturer's directions. Provide adequate worker protection. Apply chemical stripper and any recommended cover sheet in accordance with manufacturer's specifications. Neutralize and rinse surface in accordance with manufacturer's directions. Collect residue and rinse water in 55 gal drums. Provide disposal of drums. Chemical must be pre-approved by Project Manager. Following paint removal, the Project Manager must inspect to verify completion. Upon approval by Project Manager, prime and apply coat of paint to owner's selection of standard paint colors. If repainting occurs prior to Project Manager approval, Contractor shall remove all paint again. Door Jamb & Casing - Side A	20.00	SF	$25.80	$516.00
Trade: 219	**Lead Abatement - INCAA Program**				
LBPDUST	**CLEAN TO CLEARANCE** After completion of all lead hazard reduction activities, wet mist, fold and remove all containment polyethylene sheeting. HEPA vacuum all visible surfaces including walls, floors, ceilings and window troughs from the top down. Detergent scrub all horizontal surfaces in small sections using a 3-bucket system, changing rinse water every 250 SF. Completely rinse with clean water and new equipment. After surfaces are dry, HEPA vacuum all visible surfaces except ceiling. Clean All Window Troughs Clean Front Porch - Elevated Lead Dust Levels	1.00	EA	$950.00	$950.00
LBPE01	**DISPOSE & REPLACE EXT. COMPONENT** After establishing any required ground containment with polyethylene sheeting, wet mist, remove, package in polyethylene and dispose of lead-painted exterior component. Install new exterior component of similar design and nature. Install product must be properly designed and rated for exterior use. Building materials must be installed in accordance with manufacturer requirements, and in accordance with local, state and federal rules and regulations. Front Porch - Side A - Crown Molding Remove and Replace. If damage to paint of surrounding components occur, replace components damaged.	1.00	EA	$300.00	$300.00
LBPSID01	**EXTERIOR-- INSTALL VAPOR BARRIOR &VINYL SIDING** After establishing any required ground containment with polyethylene sheeting, mark or stencil lead painted siding with "Lead Paint" 4' in all directions. Apply a nonwoven vapor barrier with taped seams and opening flashing to enclose the lead paint or apply 1/4" permeable rigid or fanfold insulation as a paint barrier and substrate for siding materials. Install double-4 vinyl siding, owner selection of standard colors. Wrap all windows with aluminum. All LBP components must be adequately enclosed with siding or trim. Caulk all joints and seams of lead painted trim with 25 year caulk. HEPA vacuum any visible paint chips, dust and debris. (Owner's choice of siding pattern, color	27.00	SQ	$450.00	$12,150.00

Location: 2 - Exterior Approx. Wall SF: 0 Ceiling/Floor SF: 0

Spec #	Spec	Quantity	Units	Unit Price	Total Price
Trade: 219	**Lead Abatement - INCAA Program**				
	and embossing.) All Sides. Siding, trim and window casings.				
LBPSOF2	**ENCLOSE SOFFIT/FASCIA-- ALUM** After establishing any required ground containment with polyethylene sheeting, mark "Lead Paint" every 10 linear feet. Enclose soffit and fasica with aluminum soffit / fascia panels, color selected by owner. Back caulk all seams with siliconized acrylic to create a weathertight seal. HEPA vacuum all visible paint chips, dust and debris. Soffit and Fascia has deteriorated lead-based paint. Containment Required per 24 CFR 35.1345 All Sides & Elevations	190.00	LF	$10.35	$1,966.50

Location Total: **$15,882.50**

Address: 815 Leland Avenue **Unit:** Unit 01

Location: 3 - Room 01 - Entry Approx. Wall SF: 0 Ceiling/Floor SF: 0

Spec #	Spec	Quantity	Units	Unit Price	Total Price
Trade: 219	**Lead Abatement - INCAA Program**				
LBPD02	**INTERIOR DOOR - REPLACE HOLLOW CORE** After establishing any required floor containment with polyethylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of all LBP containing door components, including jamb and trim. Detergent wash, rinse, allow to dry and HEPA vacuum any paint chips, dust and debris. Install a like-in-kind door to match remaining doors in residence. Provide brass finish lockset. Spot prime bare wood and top coat entire assembly with premium acrylic latex or stain to match. Side C	2.00	EA	$350.00	$700.00
LBPENCA	**ELASTOMERIC - SMALL COMPONENTS** After establishing any required floor containment with polyethylene sheeting, prepare surface by degreasing and deglossing. Apply any recommended primer and roll out a liquid, polymer, elastomeric encapsulant to create a continuous seal over the surface in accordance with manufacturer's specifications. Product must be pre-approved prior to installation. Use the required number of coats and coverage rate of elastomeric to guarantee a minimum 20-year manufacturer's warranty. Side A & B Door Casing	20.00	SF	$20.25	$405.00

Location Total: $1,105.00

Address: 815 Leland Avenue **Unit:** Unit 01

Location: 4 - Room 03 - Living Room Approx. Wall SF: 0 Ceiling/Floor SF: 0

Spec #	Spec	Quantity	Units	Unit Price	Total Price
Trade: 219	**Lead Abatement - INCAA Program**				
LBPD01	**EXTERIOR DOOR--REPLACE WITH METAL PREHUNG** After establishing any required floor containment with polyethylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of existing door and frame. Install an Energy Star Rated pre-hung metal, insulated, half-glass entrance door system with interior casing and trim as needed. Supply and install one entrance and one mortised deadbolt - keyed alike and a wide angle peep sight. Provide an appropriate finish for all new material, wrap exterior wood frame with aluminum Exterior Door and components contain deteriorated lead-based paint. Containment Required per 24 CFR 35.1345 Side B	1.00	EA	$654.61	$654.61

Location Total: $654.61

Address: 815 Leland Avenue **Unit:** Unit 01

Location: 5 - Room 04 - Office Approx. Wall SF: 0 Ceiling/Floor SF: 0

Spec #	Spec	Quantity	Units	Unit Price	Total Price
Trade: 9	**Environmental Rehab**				
LBPWT01	**WINDOW-- REMOVE / REPLACE COMPONENTS** After establishing any required floor containment with polyethylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of window components as described below. Wash with detergent solution, rinse, allow to dry and HEPA vacuum all visible paint chips, dust, and debris. Install new window components to match existing. Prime bare wood. Top coat with premium acrylic latex. Window Casing & Sill Window 4 - Wall B	1.00	EA	$231.67	$231.67
Trade: 219	**Lead Abatement - INCAA Program**				
LBPT01	**TRIM-- REPLACE WITH NEAREST SIMILAR STOCK** After establishing any required floor containment with polyethylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of trim. Detergent wash, rinse, allow to dry and HEPA vacuum any paint chips, dust and debris. Replace with nearest available/similar stock trim components. Fully prime and apply a single top coat of premium acrylic latex paint (color choice of owner). Baseboard	50.00	LF	$4.11	$205.50
LBPW01	**WINDOW ABATEMENT** Field measure, order and install a white, vinyl, double hung, replacement style, Energy Star Rated, Argon filled, Low E coated glass, one-over-one window. This will include a insect screen, interior stop and exterior trim wrapped with aluminum. Weight wall cavities, if applicable, are to be insulated with expanding foam or blown-in cellulose. Interior window components to be stabilized and encapsulated utilizing a lead encapsulant. Owner to be supplied with 5-year warranty. Windows and components have deteriorated lead-based paint. Containment Required per 24 CFR 35.1345 Wall C - Window 5 Includes replacement of casing and sill.	1.00	EA	$630.00	$630.00

Location Total: $1,067.17

Address: 815 Leland Avenue **Unit:** Unit 01

Location: 6 - Room 06 - Kitchen Approx. Wall SF: 0 Ceiling/Floor SF: 0

Spec #	Spec	Quantity	Units	Unit Price	Total Price
Trade: 219	**Lead Abatement - INCAA Program**				
LBPD02	**INTERIOR DOOR - REPLACE HOLLOW CORE** After establishing any required floor containment with polyethylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of all LBP containing door components, including jamb and trim. Detergent wash, rinse, allow to dry and HEPA vacuum any paint chips, dust and debris. Install a like-in-kind door to match remaining doors in residence. Provide brass finish lockset. Spot prime bare wood and top coat entire assembly with premium acrylic latex or stain to match. Side B & C (to Room 18 only) Replace with similar stock door and trim. All casework to be replaced.	2.00	EA	$350.00	$700.00
LBPT01	**TRIM-- REPLACE WITH NEAREST SIMILAR STOCK** After establishing any required floor containment with polyethylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of trim. Detergent wash, rinse, allow to dry and HEPA vacuum any paint chips, dust and debris. Replace with nearest available/similar stock trim components. Fully prime and apply a single top coat of premium acrylic latex paint (color choice of owner). Baseboard Door Jamb - Wall A (If casing paint is disturbed, replace casing as well) Door Casing on Room 7 Side of Doorway is detiorated and must be replaced.	100.00	LF	$5.11	$511.00

Location Total: $1,211.00

Address: 815 Leland Avenue **Unit:** Unit 01

Location: 7 - Room 07 - Dining Room Approx. Wall SF: 0 Ceiling/Floor SF: 0

Spec #	Spec	Quantity	Units	Unit Price	Total Price
Trade: 219	**Lead Abatement - INCAA Program**				
Custom	**DOOR REPLACEMENT - CUSTOM** Remove and Replace "closet" doors on side A. Doors shall be primed and painted, with appropriate hardware to ensure operation. If casing paint is disturbed replace casing and paint to match.	1.00	EA	$250.00	$250.00
LBPT01	**TRIM-- REPLACE WITH NEAREST SIMILAR STOCK** After establishing any required floor containment with polyethylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of trim. Detergent wash, rinse, allow to dry and HEPA vacuum any paint chips, dust and debris. Replace with nearest available/similar stock trim components. Fully prime and apply a single top coat of premium acrylic latex paint (color choice of owner). Door Casing - Side B - Stain or Paint per homeowner request.	20.00	LF	$4.11	$82.20
LBPVSG	**FLOOR ENCLOSURE - UNDERLAYMENT& VINYL SHEETGOODS** Mark "Lead Paint" at 4' intervals. HEPA vacuum any visible paint chips, dust and debris. Install 5/16" underlayment grade plywood, using adhesive and 7d crew shank or cement coated nails, 6" on center in all directions. Install .07" thick, backed vinyl sheet goods, with minimum seams, per manufacturer's recommendations. Install metal edge strips in openings, and shoe molding or vinyl base around perimeter. (Owner's choice of in stock color/pattern.) Closet Floor - Side A of Room	25.00	SF	$9.33	$233.25

Location Total: $565.45

Address: 815 Leland Avenue **Unit: Unit 01**

Location: 8 - Room 08 - 2nd Floor Stairwell Approx. Wall SF: 0 Ceiling/Floor SF: 0

Spec #	Spec	Quantity	Units	Unit Price	Total Price
Trade: 9	**Environmental Rehab**				
LBPPR01	**REMOVE PAINT- CHEMICAL** Prepare area and protect adjacent areas not being stripped in accordance with manufacturer's directions. Provide adequate worker protection. Apply chemical stripper and any recommended cover sheet in accordance with manufacturer's specifications. Neutralize and rinse surface in accordance with manufacturer's directions. Collect residue and rinse water in 55 gal drums. Provide disposal of drums. Chemical must be pre-approved by Project Manager. Following paint removal, the Project Manager must inspect to verify completion. Upon approval by Project Manager, prime and apply coat of paint to owner's selection of standard paint colors. If repainting occurs prior to Project Manager approval, Contractor shall remove all paint again. Stair Stringers	50.00	SF	$23.50	$1,175.00
Trade: 219	**Lead Abatement - INCAA Program**				
LBPST03	**REPLACE RAIL AND BALUSTERS** Wet mist, remove, wrap in polyethylene sheeting and dispose of the lead-painted railing system. HEPA vacuum any paint chips, dust and debris. Construct stairway railing system using stock morgan newel posts, handrails and birch balusters to match existing as closely as possible. Prime and top coat with premium acrylic latex or stain and apply 2 coats of polyurethane. (Owner's choice of in-stock colors.) Rail and Newel Post may remain, be re-used.	12.00	LF	$43.00	$516.00
LBPT01	**TRIM-- REPLACE WITH NEAREST SIMILAR STOCK** After establishing any required floor containment with polyethylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of trim. Detergent wash, rinse, allow to dry and HEPA vacuum any paint chips, dust and debris. Replace with nearest available/similar stock trim components. Fully prime and apply a single top coat of premium acrylic latex paint (color choice of owner). Ceiling - Molding - Side A	8.00	LF	$4.11	$32.88

Location Total: $1,723.88

Address: 815 Leland Avenue **Unit:** Unit 01

Location: 9 - Room 09 - Basement Stairwell Approx. Wall SF: 0 Ceiling/Floor SF: 0

Spec #	Spec	Quantity	Units	Unit Price	Total Price
Trade: 219	**Lead Abatement - INCAA Program**				
LBPWB02	**INSTALL PLYWOOD WAINSCOT** After establishing any required floor containment with polythylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of lead-containing ranch or ogee base molding. Mark "Lead Paint" at 4' intervals. Hang 1/4" BCX plywood with finish screws and adhesive beans 16" on center. Run continuous 1/4" beads of adhesive at perimeter. Trim all top edges with chair rail, bottom with ogee and exterior corners with 1" corner. HEPA vacuum any visible chips, dust and debris. Paint (owner to choose color). Wrap Floor Joist Side D	10.00	SF	$4.07	$40.70

Location Total: $40.70

Address: 815 Leland Avenue **Unit:** Unit 01

Location: 10 - Room 10 - Bedroom 1 Approx. Wall SF: 0 Ceiling/Floor SF: 0

Spec #	Spec	Quantity	Units	Unit Price	Total Price
Trade: 9	**Environmental Rehab**				
LBPWT01	**WINDOW-- REMOVE / REPLACE COMPONENTS** After establishing any required floor containment with polyethylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of window components as described below. Wash with detergent solution, rinse, allow to dry and HEPA vacuum all visible paint chips, dust, and debris. Install new window components to match existing. Prime bare wood. Top coat with premium acrylic latex. Windows 11, 12 & 16 Replacement of Sills and Casings	3.00	EA	$231.67	$695.01
Trade: 219	**Lead Abatement - INCAA Program**				
LBPD02	**INTERIOR DOOR - REPLACE HOLLOW CORE** After establishing any required floor containment with polyethylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of all LBP containing door components, including jamb and trim. Detergent wash, rinse, allow to dry and HEPA vacuum any paint chips, dust and debris. Install a like-in-kind door to match remaining doors in residence. Provide brass finish lockset. Spot prime bare wood and top coat entire assembly with premium acrylic latex or stain to match. Side D Closet & to Rm 14. Replace Casing too.	2.00	EA	$350.00	$700.00
LBPP01	**LAMINATE WITH 1/2" GYPSUM** After establishing any required floor containment with polythylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of any lead-based paint moldings. Mark "Lead Paint" at 4' intervals on wall/ceiling. Hang, tape and three coat finish 1/2" gypsum over surface using screws 8" on center and adhesive beads 16" on center. Run gypsum horizontally. Caulk all penetrations and butt seams at casing and base molding with siliconized acrylic, as applicable. Install 3/8" ogee at baseboard. Prime with gypsum primer and apply a premium acrylic latex top coat. HEPA vacuum any visible paint chips, dust and debris. Wall B	50.00	SF	$2.56	$128.00
LBPT01	**TRIM-- REPLACE WITH NEAREST SIMILAR STOCK** After establishing any required floor containment with polyethylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of trim. Detergent wash, rinse, allow to dry and HEPA vacuum any paint chips, dust and debris. Replace with nearest available/similar stock trim components. Fully prime and apply a single top coat of premium acrylic latex paint (color choice of owner). Baseboard	160.00	LF	$4.11	$657.60

Location Total: $2,180.61

Address: 815 Leland Avenue **Unit:** Unit 01

Location: 11 - Room 11 - Bedroom 2 (Child) Approx. Wall SF: 0 Ceiling/Floor SF: 0

Spec #	Spec	Quantity	Units	Unit Price	Total Price
Trade: 9	**Environmental Rehab**				
LBPWT01	**WINDOW-- REMOVE / REPLACE COMPONENTS** After establishing any required floor containment with polyethylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of window components as described below. Wash with detergent solution, rinse, allow to dry and HEPA vacuum all visible paint chips, dust, and debris. Install new window components to match existing. Prime bare wood. Top coat with premium acrylic latex. Window 13 - Sill & Casing	1.00	EA	$231.67	$231.67
Trade: 219	**Lead Abatement - INCAA Program**				
LBPD02	**INTERIOR DOOR - REPLACE HOLLOW CORE** After establishing any required floor containment with polyethylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of all LBP containing door components, including jamb and trim. Detergent wash, rinse, allow to dry and HEPA vacuum any paint chips, dust and debris. Install a like-in-kind door to match remaining doors in residence. Provide brass finish lockset. Spot prime bare wood and top coat entire assembly with premium acrylic latex or stain to match. Side D. Replacement any damaged or removed casing.	1.00	EA	$350.00	$350.00
LBPT01	**TRIM-- REPLACE WITH NEAREST SIMILAR STOCK** After establishing any required floor containment with polyethylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of trim. Detergent wash, rinse, allow to dry and HEPA vacuum any paint chips, dust and debris. Replace with nearest available/similar stock trim components. Fully prime and apply a single top coat of premium acrylic latex paint (color choice of owner). Baseboard	70.00	LF	$4.11	$287.70
LBPVSG	**FLOOR ENCLOSURE - UNDERLAYMENT& VINYL SHEETGOODS** Mark "Lead Paint" at 4' intervals. HEPA vacuum any visible paint chips, dust and debris. Install 5/16" underlayment grade plywood, using adhesive and 7d crew shank or cement coated nails, 6" on center in all directions. Install .07" thick, backed vinyl sheet goods, with minimum seams, per manufacturer's recommendations. Install metal edge strips in openings, and shoe molding or vinyl base around perimeter. (Owner's choice of in stock color/pattern.) Closet Floor	20.00	SF	$9.33	$186.60

Location Total: $1,055.97

Address: 815 Leland Avenue **Unit:** Unit 01

Location: 12 - Room 13 - Bedroom 3 (Child) Approx. Wall SF: 0 Ceiling/Floor SF: 0

Spec #	Spec	Quantity	Units	Unit Price	Total Price
Trade: 219	**Lead Abatement - INCAA Program**				
LBPD02	**INTERIOR DOOR - REPLACE HOLLOW CORE** After establishing any required floor containment with polyethylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of all LBP containing door components, including jamb and trim. Detergent wash, rinse, allow to dry and HEPA vacuum any paint chips, dust and debris. Install a like-in-kind door to match remaining doors in residence. Provide brass finish lockset. Spot prime bare wood and top coat entire assembly with premium acrylic latex or stain to match. Side B & C. Replace trim if removed or paint damaged.	2.00	EA	$350.00	$700.00

Location Total: $700.00

Address: 815 Leland Avenue **Unit:** Unit 01

Location: 13 - Room 14 - Hallway Approx. Wall SF: 0 Ceiling/Floor SF: 0

Spec #	Spec	Quantity	Units	Unit Price	Total Price
Trade: 219	**Lead Abatement - INCAA Program**				
LBPD02	**INTERIOR DOOR - REPLACE HOLLOW CORE** After establishing any required floor containment with polyethylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of all LBP containing door components, including jamb and trim. Detergent wash, rinse, allow to dry and HEPA vacuum any paint chips, dust and debris. Install a like-in-kind door to match remaining doors in residence. Provide brass finish lockset. Spot prime bare wood and top coat entire assembly with premium acrylic latex or stain to match. Side C - to Room 12. Replace trim if removed or paint damaged on either side.	1.00	EA	$350.00	$350.00
LBPD04	**Attic Door - REPLACE** After establishing any required floor containment with polyethylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of door unit. Detergent wash, rinse, allow to dry and HEPA vacuum any paint chips, dust and debris. Install a new attic hatch in like kind. Provide in like kind hardware (if present). Spot prime bare wood and top coat entire assembly with premium acrylic latex. Door and Casing	1.00	EA	$275.00	$275.00
LBPT01	**TRIM-- REPLACE WITH NEAREST SIMILAR STOCK** After establishing any required floor containment with polyethylene sheeting, wet mist, remove, wrap in polyethylene sheeting and dispose of trim. Detergent wash, rinse, allow to dry and HEPA vacuum any paint chips, dust and debris. Replace with nearest available/similar stock trim components. Fully prime and apply a single top coat of premium acrylic latex paint (color choice of owner). Baseboard	150.00	LF	$4.11	$616.50

Location Total: $1,241.50

Address: 815 Leland Avenue **Unit:** Unit 01

Location: 14 - Room 15 - Laundry Room Approx. Wall SF: 0 Ceiling/Floor SF: 0

Spec #	Spec	Quantity	Units	Unit Price	Total Price
Trade: 219	**Lead Abatement - INCAA Program**				
LBPDUST	**CLEAN TO CLEARANCE** After completion of all lead hazard reduction activities, wet mist, fold and remove all containment polyethylene sheeting. HEPA vacuum all visible surfaces including walls, floors, ceilings and window troughs from the top down. Detergent scrub all horizontal surfaces in small sections using a 3-bucket system, changing rinse water every 250 SF. Completely rinse with clean water and new equipment. After surfaces are dry, HEPA vacuum all visible surfaces except ceiling. Elevated Lead Dust on Floor	1.00	RM	$150.00	$150.00

Location Total: $150.00

Address: 815 Leland Avenue **Unit:** Unit 01

Location: 15 - Room 18 - Rear Porch Approx. Wall SF: 0 Ceiling/Floor SF: 0

Spec #	Spec	Quantity	Units	Unit Price	Total Price
Trade: 219	**Lead Abatement - INCAA Program**				
LBPDUST	**CLEAN TO CLEARANCE** After completion of all lead hazard reduction activities, wet mist, fold and remove all containment polyethylene sheeting. HEPA vacuum all visible surfaces including walls, floors, ceilings and window troughs from the top down. Detergent scrub all horizontal surfaces in small sections using a 3-bucket system, changing rinse water every 250 SF. Completely rinse with clean water and new equipment. After surfaces are dry, HEPA vacuum all visible surfaces except ceiling. Dust on Floor	1.00	RM	$150.00	$150.00
LBPSID01	**EXTERIOR-- INSTALL VAPOR BARRIOR &VINYL SIDING** After establishing any required ground containment with polyethylene sheeting, mark or stencil lead painted siding with "Lead Paint" 4' in all directions. Apply a nonwoven vapor barrier with taped seams and opening flashing to enclose the lead paint or apply 1/4" permeable rigid or fanfold insulation as a paint barrier and substrate for siding materials. Install double-4 vinyl siding, owner selection of standard colors. Enclose all lead painted trim with vinyl or aluminum ventilating soffit panels, coil stock and field-fabricated trim accessories in accordance with manufacturer's specifications. Caulk all joints and seams of lead painted trim with 25 year caulk. HEPA vacuum any visible paint chips, dust and debris. (Owner's choice of siding pattern, color and embossing.) Side A & D	2.00	SQ	$450.00	$900.00

Location Total: **$1,050.00**

Address: 815 Leland Avenue **Unit:** Unit 01

Location: 16 - Exterior Garage Approx. Wall SF: 0 Ceiling/Floor SF: 0

Spec #	Spec	Quantity	Units	Unit Price	Total Price
Trade: 219	**Lead Abatement - INCAA Program**				
LBPSID01	**EXTERIOR-- INSTALL VAPOR BARRIOR &VINYL SIDING** After establishing any required ground containment with polyethylene sheeting, mark or stencil lead painted siding with "Lead Paint" 4' in all directions. Apply a nonwoven vapor barrier with taped seams and opening flashing to enclose the lead paint or apply 1/4" permeable rigid or fanfold insulation as a paint barrier and substrate for siding materials. Install double-4 vinyl siding, owner selection of standard colors. Enclose all lead painted trim with vinyl or aluminum ventilating soffit panels, coil stock and field-fabricated trim accessories in accordance with manufacturer's specifications. Caulk all joints and seams of lead painted trim with 25 year caulk. HEPA vacuum any visible paint chips, dust and debris. (Owner's choice of siding pattern, color and embossing.) Sides A, C & D Side Over Former Widow Openings - Unused. Ensure Windows are sealed with plywood on inside and inaccessible.	5.00	SQ	$450.00	$2,250.00
LBPSOF2	**ENCLOSE SOFFIT/FASCIA-- ALUM** After establishing any required ground containment with polyethylene sheeting, mark "Lead Paint" every 10 linear feet. Enclose soffit and fasica with aluminum soffit / fascia panels, color selected by owner. Back caulk all seams with siliconized acrylic to create a weathertight seal. HEPA vacuum all visible paint chips, dust and debris. Soffit and Fascia has deteriorated lead-based paint. Containment Required per 24 CFR 35.1345 All sides	100.00	LF	$10.35	$1,035.00

Location Total: $3,285.00

Address: 815 Leland Avenue **Unit:** Unit 01

Location: 17 - Health & Safety Approx. Wall SF: 0 Ceiling/Floor SF: 0

Spec #	Spec	Quantity	Units	Unit Price	Total Price
Trade: 23	**Electric**				
LBPSMOK	**SMOKE DETECTOR - 10 YEAR BATTERY POWERED** Install a ceiling mounted 10 year battery Smoke Detector such as the First Alert Smoke Alarm SA305CN3.Install smoke alarms inside each bedroom, outside each sleeping area and on every level of the home, including the basement. On levels without bedrooms, install alarms in the living room (or den or family room) or near the stairway to the upper level, or in both locations. Smoke alarms installed in the basement should be installed on the ceiling at the bottom of the stairs leading to the next level. Mount smoke alarms high on walls or ceilings . Wall-mounted alarms should be installed not more than 12 inches away from the ceiling (to the top of the alarm). Don't install smoke alarms near windows, doors, or ducts where drafts might interfere with their operation. Provide Owner with manufacturer's instructions.	3.00	EA	$35.00	$105.00
Trade: 27	**Fire Protection**				
LBPCARB	**CARBON MONOXIDE DETECTOR** Install a hard wired or plug-in carbon monoxide detector with battery back up and with a digital display capable of showing both peak CO level recorded by the alarm since it was last reset or unplugged, and the present level of carbon monoxide the unit is sensing.	3.00	EA	$75.00	$225.00

Location Total: **$330.00**

Unit Total for 815 Leland Avenue, Unit Unit 01:	**$33,203.39**
Address Grand Total for 815 Leland Avenue:	**$33,203.39**

Bidder: _____

Lead-Based Paint Inspection and Lead Hazard Risk Assessment Report

Performed at:

Emily and Julian Dean Residence
815 Leland Avenue
South Bend, IN 46616

Prepared For:

Indiana Community Action Association
1845 W. 18th Street
Indianapolis, IN 46202
(317) 638-4232

Prepared By:

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383
(219) 531-0531 (Phone)
(219) 464-9166 (Fax)

Project No. 18.3404

AMERECO, INC.

[redacted]

Consulting ▫ Engineering ▫ Project Management
54 Michigan Avenue
Valparaiso, IN 46383
(219) 531-0531
Fax: (219) 464-9166

September 20, 2018

Mr. Justin Tyrrell
Indiana Community Action Association
1845 W. 18th Street
Indianapolis, IN 46202

Re: 815 Leland Avenue
South Bend, IN 46616
Project No. 18.3404

Dear Mr. Tyrrell:

The lead-based paint inspection and lead hazard risk assessment were performed to identify paint that contains lead above allowable levels. The risk assessment identifies housing conditions called lead-based paint hazards that could result in harm to residents, workers and especially to young children. This report can help Owners develop a plan for eliminating any lead-based paint hazards that were found and aid in establishing an ongoing lead-based paint maintenance and re-evaluation program, if needed.

Attached please find the XRF lead-based paint test results, lead-based paint inspection and lead hazard risk assessment for the house at the above location. Lead paint and lead dust hazards were identified on August 16, 2018.

A summary of the lead-based paint and lead-based paint hazards are found in the Executive Summary on Page 1 of the report.

Sincerely,

Devyn Unger, Risk Assessor
License No. IND001416
Expiration Date: 05/19/2019

Attachments

c: Emily and Julian Dean

NOTE: A copy of this report must be provided to new lessees (tenants) and purchasers of this property under federal law (24 CFR part 35 and 40 CFR part 745) before they become obligated under a lease or sales contract. The complete report also must be provided to new purchasers and it must be made available to new tenants. Landlords (lessors) and sellers also are required to distribute an educational pamphlet approved by the United States Environmental Protection Agency and include standard warning language in their leases or sale contracts to ensure that parents have the information they need to protect children from lead-based paint hazards.

TABLE OF CONTENTS

Executive Summary
Identifying Information and Purpose of Lead-Based Paint Inspection and Lead Hazard Risk Assessment
Identified Lead Hazards
Excluded Components
Ongoing Monitoring
Disclosure Regulations
Conditions and Limitations
Site Information and Field Testing
- Resident Questionnaire
- Building Conditions Survey
- Paint Condition Survey
- Paint Sampling and Testing
- XRF Lead-Based Paint Testing Results
- Interior Dust Sampling
- Soil Sampling and Laboratory Information

Lead-Based Paint Hazard Control Options
Health & Safety Evaluation

Appendices

Appendix A	Dust Wipe and Soil Analytical Data
Appendix B	Site and Floor Plan
Appendix C	Photographic Documentation
Appendix D	Copy of Risk Assessor's License/Certification
Appendix E	Copy of Firm's Lead Activity License/Certification
Appendix F	Copy of XRF Training Certificate and XRF Performance Characteristic Sheet
Appendix G	"Lead Speak:" A Brief Glossary
Appendix H	Additional Lead and Lead Safety Resource Data
Appendix I	Resources for additional information on lead-based paint and lead-based paint hazards
Appendix J	Homeowner/Occupant Documentation
Appendix K	Visual Assessment Survey
Appendix L	Health & Safety Evaluation

1. Executive Summary

As a result of the lead-based paint inspection and lead hazard risk assessment (to be referred to as "Assessment") conducted on August 16, 2018, it was found that lead-based paint and lead-based paint hazards were present on the subject property as of the date of the Assessment. The following tables depict the lead-based paint (LBP) and LBP hazards, as defined by EPA and/or HUD standards (which have been summarized in Table 1.4). Please note that the room numbers correlate to the numbers depicted on the site/floor plans identified in Appendix B. Additionally, the numbers found in the notes section correlate to the window numbers found on the same plans.

Table 1.1
Lead-Based Paint

Room	Component	Side	Substrate	Condition	Color	Notes
1	Baseboard	C	Wood	Intact	White	
1	Door Casing	A	Wood	Intact	White	
1	**Door Jamb**	**A**	**Wood**	**Deteriorated**	**White**	
1	Door Casing	B	Wood	Intact	White	
1	**Door Jamb**	**B**	**Wood**	**Deteriorated**	**White**	
1	Door Casing	C	Wood	Intact	White	
1	**Door Jamb**	**C**	**Wood**	**Deteriorated**	**White**	
3	**Door Jamb**	**B**	**Wood**	**Deteriorated**	**White**	
3	**Door**	**B**	**Wood**	**Deteriorated**	**White**	
4	**Baseboard**	**C**	**Wood**	**Deteriorated**	**White**	
4	**Window Casing**	**B**	**Wood**	**Deteriorated**	**White**	**4**
4	**Window Sill**	**B**	**Wood**	**Deteriorated**	**White**	**4**
4	**Window Casing**	**C**	**Wood**	**Deteriorated**	**White**	**5**
4	Window Sash	C	Wood	Intact	White	5
4	Window Sill	C	Wood	Intact	White	5
4	Door Casing	A	Wood	Intact	White	
4	Door Casing	D	Wood	Intact	White	
4	Door Jamb	D	Wood	Intact	White	
6	**Door Jamb**	**A**	**Wood**	**Deteriorated**	**White**	
6	**Door Casing**	**B**	**Wood**	**Deteriorated**	**White**	
6	**Door Jamb**	**B**	**Wood**	**Deteriorated**	**White**	
6	**Door Casing**	**C**	**Wood**	**Deteriorated**	**White**	
6	**Door Jamb**	**C**	**Wood**	**Deteriorated**	**White**	
6	**Baseboard**	**C**	**Wood**	**Deteriorated**	**White**	
7	Window Casing	D	Wood	Intact	White	8
7	Window Sill	D	Wood	Intact	White	8
7	Window Casing	A	Wood	Intact	White	9
7	Window Sill	A	Wood	Intact	White	9
7	Door Casing	A	Wood	Intact	White	
7	**Floor**	**Floor**	**Wood**	**Deteriorated**	**Tan**	**Closet**
7	**Door**	**A**	**Wood**	**Deteriorated**	**Green**	**Closet**

Table 1.1 Lead-Based Paint						
Room	Component	Side	Substrate	Condition	Color	Notes
7	Baseboard	B	Wood	Intact	White	
7	Door Casing	A	Wood	Intact	White	
7	**Door Jamb**	**A**	**Wood**	**Deteriorated**	**White**	
7	Vertical Trim	A	Wood	Intact	White	
7	**Door Casing**	**B**	**Wood**	**Deteriorated**	**Natural**	
7	**Door Casing**	**C**	**Wood**	**Deteriorated**	**White**	
7	**Door Jamb**	**C**	**Wood**	**Deteriorated**	**White**	
8	**Crown Molding**	**A**	**Wood**	**Deteriorated**	**Gray**	
8	Window Casing	D	Wood	Intact	White	10
8	Window Sill	D	Wood	Intact	White	10
8	**Baluster**	**A**	**Wood**	**Deteriorated**	**White**	
8	**Baluster**	**B**	**Wood**	**Deteriorated**	**White**	
8	**Stair Stringer**	**C**	**Wood**	**Deteriorated**	**White**	
8	**Stair Stringer**	**D**	**Wood**	**Deteriorated**	**White**	
10	**Window Casing**	**A**	**Wood**	**Deteriorated**	**White**	**11**
10	Window Sill	A	Wood	Intact	White	11
10	**Window Casing**	**B**	**Wood**	**Deteriorated**	**White**	**12**
10	Window Sill	B	Wood	Intact	White	12
10	Door Casing	D	Wood	Intact	White	
10	**Door Jamb**	**D**	**Wood**	**Deteriorated**	**White**	
10	**Door**	**D**	**Wood**	**Deteriorated**	**White**	**Closet**
10	Door Casing	D	Wood	Intact	White	Closet
10	**Door Jamb**	**D**	**Wood**	**Deteriorated**	**White**	**Closet**
10	Wall	A	Drywall	Intact	Pink	Closet
10	**Wall**	**B**	**Drywall**	**Deteriorated**	**Pink**	**Closet**
10	**Window Casing**	**A**	**Wood**	**Deteriorated**	**White**	**16**
10	**Window Sill**	**A**	**Wood**	**Deteriorated**	**White**	**16**
10	**Door Knob**	**D**	**Metal**	**Deteriorated**	**White**	**Closet**
10	**Baseboard**	**A**	**Wood**	**Deteriorated**	**White**	**Closet**
10	**Baseboard**	**B**	**Wood**	**Deteriorated**	**White**	
11	Window Casing	B	Wood	Intact	White	13
11	**Window Casing**	**B**	**Wood**	**Deteriorated**	**White**	**13**
11	**Window Sill**	**B**	**Wood**	**Deteriorated**	**White**	**13**
11	Door	C	Wood	Intact	White	
11	Door Casing	C	Wood	Intact	White	
11	Door Jamb	C	Wood	Intact	White	
11	**Floor**	**Floor**	**Wood**	**Deteriorated**	**Gray**	**Closet**
11	Door Casing	D	Wood	Intact	White	
11	**Door Jamb**	**D**	**Wood**	**Deteriorated**	**White**	

Table 1.1 Lead-Based Paint						
Room	Component	Side	Substrate	Condition	Color	Notes
11	**Baseboard**	**D**	**Wood**	**Deteriorated**	**White**	
12	Door	A	Wood	Intact	White	
12	Door Casing	A	Wood	Intact	White	
12	**Door Jamb**	**A**	**Wood**	**Deteriorated**	**White**	
13	Window Casing	D	Wood	Intact	White	15
13	Window Sill	D	Wood	Intact	White	15
13	**Door**	**B**	**Wood**	**Deteriorated**	**White**	
13	Door Casing	B	Wood	Intact	White	
13	**Door Jamb**	**B**	**Wood**	**Deteriorated**	**White**	
13	Door	C	Wood	Intact	White	
13	Door Casing	C	Wood	Intact	White	
13	**Door Jamb**	**C**	**Wood**	**Deteriorated**	**White**	
13	Baseboard	B	Wood	Intact	White	
14	**Door**	**Ceiling**	**Wood**	**Deteriorated**	**Gray**	
14	**Door Casing**	**Ceiling**	**Wood**	**Deteriorated**	**Gray**	
14	Door Casing	B	Wood	Intact	Gray	
14	**Door Jamb**	**B**	**Wood**	**Deteriorated**	**Gray**	
14	**Door**	**B**	**Wood**	**Deteriorated**	**White**	**To Rm. 11**
14	Door Casing	B	Wood	Intact	White	To Rm. 11
14	**Door Jamb**	**B**	**Wood**	**Deteriorated**	**White**	**To Rm. 11**
14	Door	C	Wood	Intact	White	
14	Door Casing	C	Wood	Intact	White	
14	**Door Jamb**	**C**	**Wood**	**Deteriorated**	**White**	
14	**Door**	**D**	**Wood**	**Deteriorated**	**White**	
14	Door Casing	D	Wood	Intact	White	
14	**Door Jamb**	**D**	**Wood**	**Deteriorated**	**White**	
14	**Baseboard**	**D**	**Wood**	**Deteriorated**	**White**	
14	Corner Trim	D	Wood	Intact	White	
9	**Floor Joist**	**D**	**Wood**	**Deteriorated**	**White**	
2	Floor	Floor	Wood	Intact	Natural	
Exterior House	**Siding**	**B**	**Wood**	**Deteriorated**	**Tan**	
Exterior House	**Siding**	**C**	**Wood**	**Deteriorated**	**Tan**	
18	**Siding**	**A**	**Wood**	**Deteriorated**	**White**	
18	**Siding**	**D**	**Wood**	**Deteriorated**	**White**	
Exterior Garage	**Siding**	**A**	**Wood**	**Deteriorated**	**Tan**	
Exterior House	**Siding**	**D**	**Wood**	**Deteriorated**	**Tan**	
Exterior Garage	**Siding**	**C**	**Wood**	**Deteriorated**	**Tan**	
Exterior Garage	Window Casing	C	Wood	Intact	White	
Exterior Garage	**Window Sash**	**C**	**Wood**	**Deteriorated**	**White**	

Table 1.1 Lead-Based Paint						
Room	Component	Side	Substrate	Condition	Color	Notes
Exterior Garage	Window Sill	C	Wood	Deteriorated	White	
Exterior Garage	Corner Trim	C	Wood	Deteriorated	White	
Exterior Garage	Corner Trim	D	Wood	Deteriorated	White	
Exterior Garage	Siding	D	Wood	Deteriorated	White	
Exterior Garage	Window Board	D	Wood	Intact	White	
Exterior Garage	Window Casing	D	Wood	Deteriorated	Tan	
Exterior House	Corner Trim	C	Wood	Deteriorated	White	
Exterior House	Corner Trim	D	Wood	Deteriorated	White	
Exterior House	Window Casing	D	Wood	Deteriorated	White	7
Exterior House	Window Casing	D	Wood	Deteriorated	White	8
Exterior House	Window Casing	D	Wood	Deteriorated	White	9
Exterior House	Window Casing	D	Wood	Deteriorated	White	10
Exterior House	Beam	A	Wood	Intact	White	frt. porch
Exterior House	Beam	D	Wood	Intact	White	frt. porch
Exterior House	Door Casing	A	Wood	Deteriorated	Natural	frt. porch
Exterior House	Door Jamb	A	Wood	Deteriorated	Natural	frt. porch
Exterior House	Crown Molding	A	Wood	Deteriorated	White	frt. porch
Exterior House	Crown Molding	B	Wood	Intact	White	frt. porch
Exterior House	Crown Molding	C	Wood	Intact	White	frt. porch
Exterior House	Corner Trim	A	Wood	Intact	White	frt. porch
Exterior House	Window Casing	B	Wood	Deteriorated	White	2
Exterior House	Window Casing	B	Wood	Deteriorated	White	3
Exterior House	Window Casing	B	Wood	Deteriorated	White	4
Exterior House	Window Casing	B	Wood	Deteriorated	White	i1
Exterior House	Window Casing	C	Wood	Deteriorated	White	6
Exterior House	Window Casing	C	Wood	Deteriorated	White	5
Exterior House	Window Sash	C	Wood	Deteriorated	White	5
Exterior House	Window Casing	A	Wood	Deteriorated	White	16
Exterior House	Window Casing	A	Wood	Deteriorated	White	11
Exterior House	Window Casing	A	Wood	Deteriorated	White	Attic
Exterior House	Window Casing	B	Wood	Deteriorated	White	12
Exterior House	Window Casing	B	Wood	Deteriorated	White	13
Exterior House	Window Casing	C	Wood	Deteriorated	White	14
Exterior House	Soffit	C	Wood	Deteriorated	Tan	
Exterior House	Soffit	B	Wood	Deteriorated	Tan	
Exterior House	Fascia	B	Wood	Deteriorated	White	
Exterior House	Fascia	B	Wood	Deteriorated	White	
Exterior House	Crown Molding	B	Wood	Deteriorated	White	
Exterior House	Crown Molding	C	Wood	Deteriorated	White	

Table 1.1 Lead-Based Paint						
Room	**Component**	**Side**	**Substrate**	**Condition**	**Color**	**Notes**
Exterior Garage	**Soffit**	**B**	**Wood**	**Deteriorated**	**Tan**	
Exterior Garage	**Fascia**	**B**	**Wood**	**Deteriorated**	**Tan**	
Exterior Garage	**Fascia**	**A**	**Wood**	**Deteriorated**	**Tan**	
Exterior Garage	**Soffit**	**A**	**Wood**	**Deteriorated**	**Tan**	
Exterior Garage	**Soffit**	**D**	**Wood**	**Deteriorated**	**Tan**	
Exterior Garage	**Fascia**	**D**	**Wood**	**Deteriorated**	**Tan**	
Exterior Garage	**Fascia**	**C**	**Wood**	**Deteriorated**	**Tan**	
Exterior Garage	**Fascia**	**C**	**Wood**	**Deteriorated**	**Tan**	
Exterior House	**Window Casing**	**D**	**Wood**	**Deteriorated**	**White**	**15**
Exterior House	**Soffit**	**D**	**Wood**	**Deteriorated**	**Tan**	
Exterior House	**Soffit**	**A**	**Wood**	**Deteriorated**	**Tan**	
Exterior House	**Fascia**	**A**	**Wood**	**Deteriorated**	**White**	
Exterior House	**Fascia**	**D**	**Wood**	**Deteriorated**	**White**	
Exterior House	**Crown Molding**	**D**	**Wood**	**Deteriorated**	**White**	
Exterior House	**Crown Molding**	**A**	**Wood**	**Deteriorated**	**White**	
Exterior House	**Door**	**B**	**Wood**	**Deteriorated**	**White**	**To Int.**
Exterior House	**Door Casing**	**B**	**Wood**	**Deteriorated**	**White**	**To Int.**
Exterior House	**Door Jamb**	**B**	**Wood**	**Deteriorated**	**White**	**To Int.**

NOTE – None.

Table 1.2 Lead Dust Hazards					
Sample ID	**Type**	**Location**	**Component**	**Sample Location**	**Test Results ($\mu g/ft^2$)**
815-W03	Dust Wipe	Room 2	Window Trough	Window 1 –Side A	150
815-W07	Dust Wipe	Room 18	Floor	Porch – Side C	65
815-W08	Dust Wipe	Room 15	Floor	Laundry – Side A	660
815-W10	Dust Wipe	Room 10	Window Trough	Window 11-Side A	900
815-W15	Dust Wipe	Front Porch	Floor	Front Porch Floor	110

Table 1.3 Lead Soil Hazards				
Sample ID	**Type**	**Location**	**Comments**	**Test Results (mg/Kg)**
No Lead Soil Hazards Identified.				

Table 1.4 Summary of HUD, EPA & Program Regulatory Limits	
Hazard	**Hazard Level**
Lead-Based Paint Hazard	1.0 mg/cm^2 and deteriorate paint
Lead Dust Hazard	
Floor	10 µg/ft^2
Window Sill	100 µg/ft^2
Window Trough (Clearance Only)	100 µg/ft^2
Porch Floor (Clearance Only)	40 µg/ft^2
Lead Soil Hazard	
Bare Soil – Play Area	400 ppm
Bare Soil – Average	1,200 ppm
Bare Soil – Abatement Required	5,000 ppm

Please remember that all identified LBP and LBP hazards should always be properly addressed by professionally certified lead workers.

Below, please find a summary of hazard control options. Table 1.5 includes a list of the hazards identified and interim and abatement (long-term) options available to control the hazards.

Table 1.5 Hazard Control Options		
Hazard Control Identified	**Interim Control Option**	**Long-Term Control Option**
Door	Stabilize Paint, Adjust, Plane, Rehang	Remove Paint, Replace or Encapsulate
Door Jamb	Stabilize Paint, Adjust and/or Plane Door, Wrap with Aluminum	Remove Paint, Replace or Enclose
Door Casing	Stabilize Paint, Paint and/or Cover	Remove Paint, Replace or Encapsulate
Window Sill	Stabilize Paint, Paint and/or Cover	Remove Paint, Replace, Enclose or Encapsulate
Window Casing	Stabilize Paint and Paint	Remove Paint, Replace, Enclose or Encapsulate
Wall	Stabilize Paint, Paint, Cover, Install chair Rail or Corner Guides	Remove, Replace, Enclose or Encapsulate
Baseboard	Stabilize Paint and Paint	Remove Paint, Replace or Encapsulate
Crown Molding and Trim	Stabilize Paint and Paint	Remove Paint, Replace or Encapsulate
Baluster	Stabilize Paint, Paint or Protect with Impact Resistant Materials	Remove/Replace Component, Remove Paint or Enclose
Stair Stringer	Stabilize Paint and Paint	Replace Component, Remove Paint or Enclose
Exterior Siding	Stabilize Paint and Paint Using Quality Latex Paint	Remove/Replace Component, Remove Paint, Encapsulate or Enclose
Exterior Trim	Stabilize Paint and Paint	Remove/Replace Component, Remove Paint, Encapsulate or Enclose
Exterior Window Casing	Stabilize Paint and Paint Using Quality Latex Paint	Remove Paint, replace, Enclose or Encapsulate
Exterior Window Sill	Stabilize Paint and Paint Using Quality Latex Paint	Remove Paint, Replace, Enclose or Encapsulate

Table 1.5 Hazard Control Options		
Hazard Control Identified	**Interim Control Option**	**Long-Term Control Option**
Exterior Window Sash	Stabilize Paint, Adjust, Plane, Rehang	Scrape, Paint & Enclose or Remove/Replace
Floor Joist	Stabilize Paint and Paint	Remove/Replace, Remove Paint or Enclose or Encapsulate
Door Knob	Stabilize Paint, Encapsulate or Remove	Remove Component, Remove Paint, Replace or Encapsulate
Exterior Door Jamb	Stabilize Paint, Adjust and/or Plane Door and Limit Impact Surfaces	Remove Paint, Replace or Enclose
Exterior Door Casing	Stabilize Paint and Paint	Remove Paint, Replace or Encapsulate
Exterior Door	Stabilize Paint, Adjust, Plane, Rehang, and Paint	Remove Paint, Replace or Encapsulate
Fascia	Stabilize Paint and Paint Using Quality Latex Paint	Remove/Replace Component, Remove Paint, Encapsulate or Enclose
Soffit	Stabilize Paint and Paint Using Quality Latex Paint	Remove/Replace Component, Remove Paint, Encapsulate or Enclose
Elevated Lead Dust – Window	Clean, Cover Porous Surfaces with a Smooth Cleanable Surface or Paint/Seal	Clean, Remove/Replace Component, Enclose or Encapsulate
Elevated Lead Dust – Floor	Remove Carpeting and/or Clean Carpeting or Flooring	Clean, Enclose or Encapsulate

2. Identifying Information and Purpose of Risk Assessment

The Assessment was conducted at 815 Leland Avenue, South Bend, IN 46616, on August 16, 2018. The Assessment was conducted by Amereco Engineering, 54 Michigan Avenue, Valparaiso, IN 46383, by Devyn Unger, an Indiana Certified Risk Assessor, License No. License No. IND001416. The purpose of the Assessment was to identify the presence of lead-based paint and lead hazards on surfaces inside and outside the residence. The LBP hazards identified in this report will remain valid for up to one year unless conditions change within the structure.

Based upon details provided by the Owner, it is unknown if a previous risk assessment has been performed.

As part of the Assessment, a visual survey of the property and structure was conducted, dust wipe sampling was performed on interior surfaces, and soil samples were collected. In addition, on-site paint testing using an X-ray fluorescence (XRF) analyzer was performed.

The Assessment was contracted by the Indiana Community Action Association, 1845 W. 18th Street, Indianapolis, IN. Further information concerning this project can be obtained from this contracting agency.

3. Identified Lead-Based Paint Hazards

The XRF results from the paint that was tested showed that LBP exists, as defined in the Residential LBP Hazard Reduction Act of 1992 (Title X) and as defined by the Environmental Protection Agency (EPA) regulation published in the January 5, 2001, Federal Register. The XRF results indicate that lead levels above EPA and/or US Department of Housing and Urban Development (HUD) criteria exist in the following locations:

Existing Lead-Based Paint and Lead Hazards Identified

Deteriorated Lead-Based Paint (LBP), that currently presents existing lead-based paint hazards, has been identified.

Refer to the following tables found in the Executive Summary of this report for the lead hazards:

Lead-Based Paint Hazards (Shaded & Bolded) – Table 1.1
Lead Dust Hazards – Table 1.2
Lead Soil Hazards – Table 1.3

A listing of environmental sampling locations and their associated lead contamination levels can be found in the sections addressing the analytical laboratory results for paint, dust, and soil.

Hazard control options for the components identified as containing LBP and that represent current LBP hazards are included in the Executive Summary. In an effort to aid in the interpretation of the listed findings a glossary of terms and a list of publications and resources, addressing lead hazards and their health effects are included at the end of this report.

4. Excluded Components

The following table lists those components and areas, which the Risk Assessor was not able to test and the reason for which it was not tested. It is recommended that these components and areas be made accessible and be tested so as to determine the presence of lead-based paint as soon as possible for the safety of the occupants of this unit. The listed components are not eligible to be defined, as present Lead-Based Paint Hazards due to the inability to complete inspection required testing by the Risk Assessor. It is highly recommended that any future disturbance of these component surface coatings should be treated with caution and safety measures taken. Lead Safe Work Practices are always recommended.

AREA/LOCATION	COMPONENT	REASON NOT TESTED
N/A		

KEY:
UNC – UNCOATED
INA – INACCESSIBLE
ENCL – ENCLOSED
NA – NOT APPLICABLE

5. Ongoing Monitoring

On-going monitoring of the Property will be necessary since lead-based paint (LBP) is present. When LBP is present, the potential exists for LBP hazards to develop. Hazards can develop by means such as, but not limited to: the failure of lead hazard control measures; previously intact LBP becoming deteriorated; dangerous levels of lead-in-dust (dust lead) re-accumulating through friction, impact, and deterioration of paint; or, through the introduction of contaminated exterior dust and soil into the interior of the structure. Ongoing monitoring typically includes two different activities: reevaluation and annual visual assessments. A reevaluation is a risk assessment that includes limited soil and dust sampling and a visual evaluation of paint films and any existing lead hazard controls. Reevaluations are supplemented with visual assessments by the property owner, which should be conducted at least once a year, when the property owner or its management agent (if the housing is rented in the future) receives complaints from residents about deteriorated paint or other potential lead hazards, when the residence (or if, in the future, the house will have more than one dwelling unit, any unit that turns over or becomes vacant), or when significant damage occurs that could affect the integrity of hazard control treatments (e.g., flooding, vandalism, fire). The visual assessment should cover the dwelling unit (if, in the future, the housing will have more than one dwelling unit, each unit and each common area used by residents), exterior painted surfaces, and ground cover (if control of soil-lead hazards is required or recommended). Visual assessments should confirm that all paint with known LBP is not deteriorating, that lead hazard control methods have not failed, and that structural problems do not threaten the integrity of any remaining known or suspected LBP.

Visual assessments do not replace the need for professional reevaluations by a certified risk assessor. The reevaluation should include:

1. A review of prior reports to determine where lead-based paint and lead-based paint hazards have been found, what controls were done, and when these findings and controls happened;
2. A visual assessment to identify deteriorated paint, failures of previous hazard controls, visible dust and debris, and bare soil;
3. Environmental testing for lead in dust, newly deteriorated paint, and newly bare soil; and
4. A report describing the findings of the reevaluation, including the location of any lead-based paint hazards, the location of any failures of previous hazard controls, and, as needed, acceptable options for the control of hazards, the repair of previous controls, and modification of monitoring and maintenance practices.

The first reevaluation should be conducted no later than two years after completion of hazard controls, or, if specific controls or treatments are not conducted, two years from the beginning of ongoing lead-based paint monitoring and maintenance activities. Subsequent reevaluations should be conducted at intervals of two years, plus or minus 60 days. If two consecutive reevaluations are conducted two years apart without finding a lead-based paint hazard, reevaluation may be discontinued.

Please refer to your community development agency, housing authority, or other applicable agency for additional local/regional regulations and guidelines governing reevaluation activities.

6. Disclosure Regulations

A copy of this complete report must be made available to new lessees (tenants) and must be provided to purchasers of this property under Federal law before they become obligated under any future lease or sales contract transactions (Section 1018 of Title X – found in 24 CFR Part 35 and 40 CFR Part 745), until the demolition of this property. Landlords (Lessors) and/or sellers are also required to distribute an educational pamphlet developed by the EPA entitled *"Protect Your Family From Lead in Your Home"* and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from LBP hazards.

7. Conditions and Limitations

Staff at Amereco Engineering has performed the Assessment as requested by the client in a thorough and professional manner consistent with commonly accepted standard industry practices, using state-of-the-art practices and best available known technology, as of the date of the assessment. Amereco Engineering cannot guarantee and does not warrant that this Assessment has identified all adverse environmental factors and/or conditions affecting the subject property on the date of the Assessment. Amereco Engineering cannot and will not warrant that the Assessment that was requested by the client will satisfy the dictates of, or provide a legal defense in connection with, any environmental laws or regulations. It is the responsibility of the client to know and abide by all applicable laws, regulations, and standards, including EPA's Renovation, Repair and Painting regulation.

The results reported and conclusions reached by Amereco Engineering are solely for the benefit of the client. The results and opinions in this report, based solely upon the conditions found on the property as of the date of the Assessment, will be valid only as of the date of the Assessment. Amereco Engineering assumes no obligation to advise the client of any changes in any real or potential lead hazards at this residence that may or may not be later brought to our attention. Further conditions and limitations to this contracted report are included in the general terms and conditions supplied to the client with the contract for services.

8. Site Information and Field Testing

8.1. Resident Questionnaire

A resident questionnaire was completed as part of the Assessment, to help the Client identify particular use patterns of the unit that would contribute to LBP Hazards. The answers to the questionnaire were obtained from Emily and Julian Dean. Following is a summary of the information obtained at the time of the assessment:

Table 8.1
Resident Questionnaire

Children in the Household:	2
Children's bedroom locations:	Upstairs
Children's eating locations:	Room 7 – Dining Room
Primary interior play area(s):	Rooms 1-7
Primary exterior play area(s):	Backyard – Side C
Toy Storage:	Living Rooms – Rooms 2 & 3
Pets:	No
Children's blood lead testing history: Yes or NO Children Present has had an elevated blood lead test	Yes No
Observed chewed surfaces:	No
Women of childbearing age:	Yes
Previous lead testing: YES or NO	No
Most frequently used entrances:	Front and Side Doors -
Most frequently opened windows:	Bedrooms, Dining Room, TV Room
Structure cooling method:	Central Air, Ceiling Fans and Box Fans
Gardening – type and location(s):	Flower Beds Near House
Plans for landscaping:	NA
Cleaning regiment:	Whole downstairs, kitchen, bathrooms, upstairs hallway, bedrooms, stairwell, office, basement.
Cleaning methods:	Wet Mop, Broom, Wed Dust, Vacuum.
Recently completed renovations:	Dining Room was painted, no scraping or sanding
Demolition debris on site:	NA
Resident(s) with work lead exposure: Yes or NO Residents have a work lead exposure that could contribute to lead hazards within the home or exterior structures	No
Planned renovations:	Not Specified

Table 8.2 Building Conditions Survey	
Date of Construction:	1902
Apparent Building Use:	Residential
Setting:	Urban
Front Entry Faces:	East
Design: Ranch/Bi-Level/Two-Story/Cape Cod/Other	Two-Story w/Basement
Construction Type:	Stick Built
Lot Type:	Residential
Roof:	Asphalt
Foundation:	Brick
Front Lawn Condition:	Fair
Back Lawn Condition:	Fair – Bare Soil in Sandbox
Drip Line Condition:	Poor – Bare Soil Sides A, B, C & D
Site Evaluation:	Fair
Exterior Structural Condition:	Fair
Interior Structural Condition:	Fair
Overall Building/Site Condition:	Fair

8.2. Paint Condition Survey

The purpose of the visual assessment element of the risk assessment is to locate potential lead-based paint hazards, both exterior and interior. Within a dwelling unit, the visual assessment should be conducted in all rooms. The risk assessor should also examine exterior painted surfaces, including fences and outbuildings that are part of the residential property (such as garages, fences and storage sheds) as well as buildings with living spaces. Also, the risk assessor should examine the grounds to identify bare soil. The result should be a complete inventory of the location and approximate size of each lead-based paint hazard.

Please Note: EPA and HUD have provided a specific definition for the term "deteriorated paint." Deteriorated paint is defined as "any interior or exterior paint or other coating that is peeling, chipping, chalking or cracking, or any paint or coating located on an interior or exterior surface or fixture that is otherwise damaged or separated from the substrate." This definition is most typically associated with surface conditions only. Usage of this term in describing conditions other than those associated with surface coatings are not known to be defined by EPA or HUD.

Property address: 815 Leland Avenue, South Bend, IN 46616
Name of property owner: Emily and Julian Dean
Name of risk assessor: Devyn Unger
Date of Assessment: 08/16/2018

A COPY OF THE VISUAL SURVEY CAN BE FOUND IN APPENDIX K.

8.3. Paint Sampling and Testing

LBP testing, conforming to the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing and the OHHLHC Lead-Based Paint Hazard Control Program guidelines was completed at this residence. No paint chip samples were taken. On 08/16/2018, a total of 418 tests (assays) were taken on surfaces inside and outside of the residence using an X-ray fluorescence analyzer. Lead concentrations that meet or exceed the HUD published levels identified as being potentially dangerous (e.g., greater than or equal to 1.0 milligrams per centimeter square [$\geq$ 1.0 mg/cm^2]) were encountered.

Refer to Table 1.1 – All Lead-Based Paint in the Executive Summary of this report.

Some of the remaining test locations exhibited lead levels below the EPA/HUD limits, but in great enough quantities to be detectable by our XRF analyzer. It should be noted that lead concentrations (in the paint)

that are less than the levels that identify a surface coating as LBP still have the potential of causing lead poisoning. Should these LBP painted components and/or surfaces be disturbed in any manner that generates dust, extreme care must be taken to limit its spread. Lead Safe Work Practices are always recommended.

Testing was performed by Devyn Unger, a State of Indiana certified Risk Assessor, using the Heuresis Corp., Pb200i Lead Paint Analyzer (SERIAL No. 1114, State of Indiana License No. XF700555). Please refer to the appendices for the detailed XRF, dust and soil sampling analytical reports. XRF data in **boldface and highlighted** indicates concentrations of lead equal to or greater than the EPA regulatory limit that was published on January 5, 2001.

8.4. XRF Lead-Based Paint Testing Results

(This page intentionally left blank.)

XRF Results
815 Leland Avenue
South Bend, IN 46616

Reading #	mg/cm2	Result	Date Time	Room	Component	Side	Substrate	Condition	Color	Notes
1483	0.9	Negative	8/16/2018 10:07:11	Calibrate						1.0Front
1484	0.9	Negative	8/16/2018 10:07:27	Calibrate						1.0Front
1485	0.9	Negative	8/16/2018 10:07:48	Calibrate						1.0Back
1486	0.3	Negative	8/16/2018 10:15:37	1	Wall	A	Drywall	Deteriorated	Gray	
1487	0.3	Negative	8/16/2018 10:15:56	1	Wall	B	Drywall	Intact	Gray	
1488	0.2	Negative	8/16/2018 10:16:25	1	Wall	C	Drywall	Intact	Gray	
1489	0.1	Negative	8/16/2018 10:16:37	1	Wall	D	Drywall	Intact	Gray	
1490	0.1	Negative	8/16/2018 10:17:53	1	Ceiling	Ceiling	Drywall	Intact	Gray	
1491	**10.6**	**Positive**	**8/16/2018 10:18:31**	**1**	**Baseboard**	**C**	**Wood**	**Intact**	**White**	
1492	-0.2	Negative	8/16/2018 10:23:14	1	Door	A	Wood	Intact	Natural	
1493	**10.7**	**Positive**	**8/16/2018 10:23:37**	**1**	**Door Casing**	**A**	**Wood**	**Intact**	**White**	
1494	**17.8**	**Positive**	**8/16/2018 10:24:02**	**1**	**Door Jamb**	**A**	**Wood**	**Deteriorated**	**White**	
1495	0.2	Negative	8/16/2018 10:24:17	1	Door Threshold	A	Wood	Deteriorated	White	
1496	0.2	Negative	8/16/2018 10:26:39	1	Door Threshold	A	Wood	Deteriorated	White	
1497	**10.5**	**Positive**	**8/16/2018 10:27:15**	**1**	**Door Casing**	**B**	**Wood**	**Intact**	**White**	
1498	**9.5**	**Positive**	**8/16/2018 10:27:34**	**1**	**Door Jamb**	**B**	**Wood**	**Deteriorated**	**White**	
1499	0.1	Negative	8/16/2018 10:30:09	1	Door Threshold	B	Wood	Intact	Natural	
1500	0	Negative	8/16/2018 10:30:34	1	Door	B	Wood	Deteriorated	White	
1501	0.2	Negative	8/16/2018 10:31:36	1	Door	C	Wood	Intact	White	
1502	0.2	Negative	8/16/2018 10:31:44	1	Door	C	Wood	Intact	White	
1503	**9.8**	**Positive**	**8/16/2018 10:32:00**	**1**	**Door Casing**	**C**	**Wood**	**Intact**	**White**	
1504	**7.9**	**Positive**	**8/16/2018 10:32:23**	**1**	**Door Jamb**	**C**	**Wood**	**Deteriorated**	**White**	
1505	0.3	Negative	8/16/2018 10:33:15	2	Wall	A	Wood	Intact	Gray	
1506	0.3	Negative	8/16/2018 10:33:28	2	Wall	B	Wood	Intact	Gray	
1507	0.1	Negative	8/16/2018 10:33:46	2	Wall	C	Wood	Deteriorated	Gray	
1508	0.3	Negative	8/16/2018 10:34:09	2	Wall	D	Wood	Intact	Gray	
1509	0	Negative	8/16/2018 10:34:46	2	Baseboard	C	Wood	Intact	Natural	
1510	0.1	Negative	8/16/2018 10:35:46	2	Window Casing	A	Wood	Intact	Natural	1
1511	0.2	Negative	8/16/2018 10:35:59	2	Window Sill	A	Wood	Intact	Natural	1
1512	0	Negative	8/16/2018 10:36:16	2	Window Casing	A	Wood	Intact	White	1
1513	0.2	Negative	8/16/2018 10:36:56	2	Window Casing	B	Wood	Intact	Natural	2

Make: Heuresis
Model: Pb200i
Source: ^{57}Co
Serial Number: 1114

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383

XRF Results
815 Leland Avenue
South Bend, IN 46616

Reading #	mg/cm2	Result	Date Time	Room	Component	Side	Substrate	Condition	Color	Notes
1514	0	Negative	8/16/2018 10:37:15	2	Window Casing	B	Wood	Intact	White	2
1515	0.1	Negative	8/16/2018 10:37:44	2	Window Sill	B	Wood	Intact	Natural	2
1516	0	Negative	8/16/2018 10:38:17	2	Column	C	Wood	Intact	Natural	
1517	0.1	Negative	8/16/2018 10:38:36	2	Door Casing	C	Wood	Intact	Natural	
1518	0.1	Negative	8/16/2018 10:39:28	2	Door	D	Wood	Intact	White	
1519	0.2	Negative	8/16/2018 10:43:23	2	Ceiling	Ceiling	Drywall	Deteriorated	Gray	
1520	0.2	Negative	8/16/2018 10:43:48	3	Ceiling	Ceiling	Drywall	Deteriorated	Gray	
1521	0.2	Negative	8/16/2018 10:45:15	3	Wall	A	Drywall	Deteriorated	Gray	
1522	0.3	Negative	8/16/2018 10:47:15	3	Wall	B	Drywall	Intact	Gray	
1523	0.1	Negative	8/16/2018 10:47:28	3	Wall	C	Drywall	Intact	Gray	
1524	0.2	Negative	8/16/2018 10:47:41	3	Wall	D	Drywall	Intact	Gray	
1525	0	Negative	8/16/2018 10:48:17	3	Door Casing	A	Wood	Intact	Natural	
1526	-0.2	Negative	8/16/2018 10:48:37	3	Baseboard	A	Wood	Intact	Natural	
1527	0.1	Negative	8/16/2018 10:48:56	3	Door Casing	B	Wood	Intact	Natural	
1528	**18.6**	**Positive**	**8/16/2018 10:49:38**	**3**	**Door Jamb**	**B**	**Wood**	**Deteriorated**	**White**	
1529	**1.3**	**Positive**	**8/16/2018 10:50:12**	**3**	**Door**	**B**	**Wood**	**Deteriorated**	**White**	
1530	0.1	Negative	8/16/2018 10:50:35	3	Window Casing	B	Wood	Intact	Natural	3
1531	0.2	Negative	8/16/2018 10:51:40	3	Window Sill	B	Wood	Intact	Natural	3
1532	0	Negative	8/16/2018 10:52:56	3	Window Casing	B	Wood	Intact	White	3
1533	-0.1	Negative	8/16/2018 10:53:21	3	Door	C	Wood	Intact	Natural	
1534	0.1	Negative	8/16/2018 10:53:31	3	Door Casing	C	Wood	Intact	Natural	
1535	0.1	Negative	8/16/2018 10:53:55	3	Door Jamb	C	Wood	Intact	White	
1536	-0.1	Negative	8/16/2018 10:54:20	3	Door	D	Wood	Intact	Natural	
1537	0.1	Negative	8/16/2018 10:54:31	3	Door Casing	D	Wood	Intact	Natural	
1538	0.2	Negative	8/16/2018 10:54:51	3	Door Jamb	D	Wood	Intact	White	
1539	0.3	Negative	8/16/2018 10:55:31	4	Wall	A	Drywall	Intact	Gray	
1540	0.3	Negative	8/16/2018 10:55:44	4	Wall	B	Drywall	Intact	Gray	
1541	0.3	Negative	8/16/2018 10:55:57	4	Wall	C	Drywall	Intact	Gray	
1542	0.1	Negative	8/16/2018 10:56:12	4	Wall	D	Drywall	Deteriorated	Gray	
1543	0.1	Negative	8/16/2018 10:56:46	4	Ceiling	Ceiling	Drywall	Deteriorated	White	
1544	**3.8**	**Positive**	**8/16/2018 10:58:04**	**4**	**Baseboard**	**C**	**Wood**	**Deteriorated**	**White**	

Make: Heuresis
Model: Pb200i
Source: ^{57}Co
Serial Number: 1114

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383

XRF Results
815 Leland Avenue
South Bend, IN 46616

Reading #	mg/cm2	Result	Date Time	Room	Component	Side	Substrate	Condition	Color	Notes
1545	**4.4**	**Positive**	**8/16/2018 10:58:41**	**4**	**Window Casing**	**B**	**Wood**	**Deteriorated**	**White**	**4**
1546	**6.9**	**Positive**	**8/16/2018 10:59:08**	**4**	**Window Sill**	**B**	**Wood**	**Deteriorated**	**White**	**4**
1547	**4.9**	**Positive**	**8/16/2018 10:59:37**	**4**	**Window Casing**	**C**	**Wood**	**Deteriorated**	**White**	**5**
1548	**11.7**	**Positive**	**8/16/2018 11:00:06**	**4**	**Window Sash**	**C**	**Wood**	**Intact**	**White**	**5**
1549	**4.1**	**Positive**	**8/16/2018 11:00:23**	**4**	**Window Sill**	**C**	**Wood**	**Intact**	**White**	**5**
1550	-0.1	Negative	8/16/2018 11:01:09	4	Door	A	Wood	Intact	Natural	
1551	**2.7**	**Positive**	**8/16/2018 11:01:24**	**4**	**Door Casing**	**A**	**Wood**	**Intact**	**White**	
1552	0.4	Negative	8/16/2018 11:01:37	4	Door Jamb	A	Wood	Intact	White	
1553	0	Negative	8/16/2018 11:03:48	4	Door	D	Wood	Intact	White	
1554	**3.6**	**Positive**	**8/16/2018 11:04:00**	**4**	**Door Casing**	**D**	**Wood**	**Intact**	**White**	
1555	**2**	**Positive**	**8/16/2018 11:04:36**	**4**	**Door Jamb**	**D**	**Wood**	**Intact**	**White**	
1556	0.1	Negative	8/16/2018 11:05:28	5	Wall	A	Drywall	Intact	White	
1557	0.1	Negative	8/16/2018 11:05:40	5	Wall	B	Drywall	Intact	White	
1558	0.1	Negative	8/16/2018 11:05:52	5	Wall	C	Drywall	Intact	White	
1559	0.2	Negative	8/16/2018 11:06:05	5	Wall	D	Drywall	Intact	White	
1560	0.8	Negative	8/16/2018 11:06:47	5	Ceiling	Ceiling	Drywall	Intact	White	
1561	0.5	Negative	8/16/2018 11:07:31	5	Window Casing	C	Wood	Intact	White	6
1562	0.1	Negative	8/16/2018 11:07:44	5	Window Sill	C	Wood	Intact	White	6
1563	0.5	Negative	8/16/2018 11:08:04	5	Window Casing	C	Wood	Intact	White	6
1564	0	Negative	8/16/2018 11:08:21	5	Baseboard	A	Wood	Intact	White	
1565	0	Negative	8/16/2018 11:08:47	5	Door	A	Wood	Deteriorated	White	
1566	0.1	Negative	8/16/2018 11:09:00	5	Door Casing	A	Wood	Deteriorated	White	
1567	0.1	Negative	8/16/2018 11:09:12	5	Door Jamb	A	Wood	Deteriorated	White	
1568	0.1	Negative	8/16/2018 11:10:10	5	Box	C	Wood	Intact	White	
1569	0.1	Negative	8/16/2018 11:10:42	5	Cabinet	B	Wood	Deteriorated	White	
1570	0.3	Negative	8/16/2018 11:11:23	6	Wall	A	Drywall	Intact	Red	
1571	0.1	Negative	8/16/2018 11:11:37	6	Wall	B	Drywall	Intact	Red	
1572	0.1	Negative	8/16/2018 11:11:55	6	Wall	C	Drywall	Intact	Red	
1573	0.1	Negative	8/16/2018 11:12:09	6	Wall	D	Drywall	Intact	Red	
1574	0	Negative	8/16/2018 11:12:47	6	Ceiling	D	Drywall	Intact	White	
1575	-0.1	Negative	8/16/2018 11:13:34	6	Window Casing	D	Wood	Intact	White	7

Make: Heuresis
Model: Pb200i
Source: ^{57}Co
Serial Number: 1114

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383

XRF Results
815 Leland Avenue
South Bend, IN 46616

Reading #	mg/cm2	Result	Date Time	Room	Component	Side	Substrate	Condition	Color	Notes
1576	0.2	Negative	8/16/2018 11:13:48	6	Window Sill	D	Wood	Intact	White	7
1577	0	Negative	8/16/2018 11:14:14	6	Door Casing	A	Wood	Intact	White	
1578	**3.9**	**Positive**	**8/16/2018 11:14:32**	**6**	**Door Jamb**	**A**	**Wood**	**Deteriorated**	**White**	
1579	0.1	Negative	8/16/2018 11:15:12	6	Door Casing	A	Wood	Intact	White	
1580	0	Negative	8/16/2018 11:15:37	6	Door	B	Wood	Deteriorated	White	
1581	**6.2**	**Positive**	**8/16/2018 11:15:50**	**6**	**Door Casing**	**B**	**Wood**	**Deteriorated**	**White**	
1582	**6.2**	**Positive**	**8/16/2018 11:16:07**	**6**	**Door Jamb**	**B**	**Wood**	**Deteriorated**	**White**	
1583	0.1	Negative	8/16/2018 11:16:55	6	Door	C	Wood	Intact	White	
1584	**6.9**	**Positive**	**8/16/2018 11:17:14**	**6**	**Door Casing**	**C**	**Wood**	**Deteriorated**	**White**	
1585	**10.1**	**Positive**	**8/16/2018 11:18:05**	**6**	**Door Jamb**	**C**	**Wood**	**Deteriorated**	**White**	
1586	0.1	Negative	8/16/2018 11:18:29	6	Door Threshold	C	Wood	Deteriorated	Red	
1587	-0.1	Negative	8/16/2018 11:19:09	6	Door	C	Wood	Intact	Red	
1588	0	Negative	8/16/2018 11:19:29	6	Door Casing	C	Wood	Intact	White	
1589	0.1	Negative	8/16/2018 11:19:46	6	Door Jamb	C	Wood	Deteriorated	White	
1590	0	Negative	8/16/2018 11:20:18	6	Baseboard	C	Wood	Deteriorated	White	
1591	**7.6**	**Positive**	**8/16/2018 11:20:36**	**6**	**Baseboard**	**C**	**Wood**	**Deteriorated**	**White**	
1592	-0.5	Negative	8/16/2018 11:21:29	7	Wall	A	Drywall	Intact	Green	
1593	0.1	Negative	8/16/2018 11:21:46	7	Wall	B	Drywall	Intact	Green	
1594	0.3	Negative	8/16/2018 11:21:57	7	Wall	C	Drywall	Intact	Green	
1595	0.1	Negative	8/16/2018 11:22:09	7	Wall	D	Drywall	Intact	Green	
1596	0.1	Negative	8/16/2018 11:22:33	7	Ceiling	Ceiling	Drywall	Intact	White	
1597	0.4	Negative	8/16/2018 11:23:05	7	Vent Cover	D	Metal	Intact	Black	
1598	**2.1**	**Positive**	**8/16/2018 11:23:41**	**7**	**Window Casing**	**D**	**Wood**	**Intact**	**White**	**8**
1599	**2**	**Positive**	**8/16/2018 11:24:00**	**7**	**Window Sill**	**D**	**Wood**	**Intact**	**White**	**8**
1600	**1.9**	**Positive**	**8/16/2018 11:24:31**	**7**	**Window Casing**	**A**	**Wood**	**Intact**	**White**	**9**
1601	**2.5**	**Positive**	**8/16/2018 11:24:42**	**7**	**Window Sill**	**A**	**Wood**	**Intact**	**White**	**9**
1602	**1.9**	**Positive**	**8/16/2018 11:27:55**	**7**	**Door Casing**	**A**	**Wood**	**Intact**	**White**	
1603	0.9	Negative	8/16/2018 11:28:35	7	Door Jamb	A	Wood	Intact	White	
1604	**14.4**	**Positive**	**8/16/2018 11:29:37**	**7**	**Floor**	**Floor**	**Wood**	**Deteriorated**	**Tan**	**Closet**
1605	**1.5**	**Positive**	**8/16/2018 11:30:49**	**7**	**Door**	**A**	**Wood**	**Deteriorated**	**Green**	**Closet**
1606	0	Negative	8/16/2018 11:31:22	7	Door	A	Wood	Deteriorated	White	Closet

Make: Heuresis
Model: Pb200i
Source: ^{57}Co
Serial Number: 1114

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383

XRF Results
815 Leland Avenue
South Bend, IN 46616

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Notes
1607	0.2	Negative	8/16/2018	11:32:15	7	Door Knob	A	Wood	Deteriorated	White	
1608	0.2	Negative	8/16/2018	11:32:42	7	Door Hinge	A	Metal	Deteriorated	White	
1609	0	Negative	8/16/2018	11:32:53	7	Door Hinge	A	Metal	Deteriorated	White	
1610	0.3	Negative	8/16/2018	11:33:06	7	Door Hinge	A	Metal	Deteriorated	White	
1611	**1.8**	**Positive**	**8/16/2018**	**11:33:48**	**7**	**Baseboard**	**B**	**Wood**	**Intact**	**White**	
1612	**2.1**	**Positive**	**8/16/2018**	**11:34:14**	**7**	**Door Casing**	**A**	**Wood**	**Intact**	**White**	
1613	**11.5**	**Positive**	**8/16/2018**	**11:34:37**	**7**	**Door Jamb**	**A**	**Wood**	**Deteriorated**	**White**	
1614	**16.4**	**Positive**	**8/16/2018**	**11:35:25**	**7**	**Vertical Trim**	**A**	**Wood**	**Intact**	**White**	
1615	0	Negative	8/16/2018	11:36:01	7	Door	B	Wood	Intact	Natural	
1616	**1.8**	**Positive**	**8/16/2018**	**11:36:19**	**7**	**Door Casing**	**B**	**Wood**	**Deteriorated**	**Natural**	
1617	0.2	Negative	8/16/2018	11:36:31	7	Door Jamb	B	Wood	Deteriorated	Natural	
1618	**1.9**	**Positive**	**8/16/2018**	**11:36:57**	**7**	**Door Casing**	**C**	**Wood**	**Deteriorated**	**White**	
1619	**1.9**	**Positive**	**8/16/2018**	**11:37:13**	**7**	**Door Jamb**	**C**	**Wood**	**Deteriorated**	**White**	
1620	0.2	Negative	8/16/2018	11:37:39	7	Vent Cover	B	Metal	Deteriorated	Black	
1621	0	Negative	8/16/2018	11:38:18	7	Crown Molding	C	Wood	Deteriorated	White	
1622	0.1	Negative	8/16/2018	11:39:32	7	Outlet Cover	A	Plastic	Deteriorated	Green	
1623	0	Negative	8/16/2018	11:39:45	7	Outlet Cover	B	Plastic	Deteriorated	Green	
1624	0.4	Negative	8/16/2018	11:40:52	1	Ceiling	Ceiling	Drywall	Deteriorated	Gray	Stairs
1625	0.4	Negative	8/16/2018	11:42:18	8	Wall	A	Drywall	Intact	Gray	
1626	-0.4	Negative	8/16/2018	11:42:32	8	Wall	B	Drywall	Intact	Gray	
1627	0.4	Negative	8/16/2018	11:42:44	8	Wall	C	Drywall	Intact	Gray	
1628	-0.1	Negative	8/16/2018	11:42:57	8	Wall	D	Drywall	Intact	Gray	
1629	**8**	**Positive**	**8/16/2018**	**11:43:32**	**8**	**Crown Molding**	**A**	**Wood**	**Deteriorated**	**Gray**	
1630	0.3	Negative	8/16/2018	11:44:09	8	Ceiling	Ceiling	Drywall	Deteriorated	Gray	
1631	**9.3**	**Positive**	**8/16/2018**	**11:44:51**	**8**	**Window Casing**	**D**	**Wood**	**Intact**	**White**	**10**
1632	**10.5**	**Positive**	**8/16/2018**	**11:45:11**	**8**	**Window Sill**	**D**	**Wood**	**Intact**	**White**	**10**
1633	0.1	Negative	8/16/2018	11:45:40	8	Railing	A	Wood	Deteriorated	White	
1634	0.2	Negative	8/16/2018	11:45:48	8	Railing	A	Wood	Deteriorated	White	
1635	**11.7**	**Positive**	**8/16/2018**	**11:46:16**	**8**	**Baluster**	**A**	**Wood**	**Deteriorated**	**White**	
1636	0.1	Negative	8/16/2018	11:46:34	8	Rail Cap	A	Wood	Deteriorated	White	
1637	0	Negative	8/16/2018	11:46:48	8	Rail Cap	B	Wood	Deteriorated	White	

Make: Heuresis
Model: Pb200i
Source: ^{57}Co
Serial Number: 1114

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383

XRF Results
815 Leland Avenue
South Bend, IN 46616

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Notes
1638	11.6	Positive	8/16/2018	11:47:09	8	Baluster	B	Wood	Deteriorated	White	
1639	0	Negative	8/16/2018	11:47:36	8	Railing	B	Wood	Deteriorated	White	
1640	0.1	Negative	8/16/2018	11:48:24	8	Newel Post	B	Wood	Deteriorated	White	
1641	0.2	Negative	8/16/2018	11:49:07	8	Stair Tread	C	Wood	Deteriorated	White	
1642	0.1	Negative	8/16/2018	11:49:17	8	Stair Tread	C	Wood	Deteriorated	White	
1643	7.6	Positive	8/16/2018	11:49:34	8	Stair Stringer	C	Wood	Deteriorated	White	
1644	9.8	Positive	8/16/2018	11:49:50	8	Stair Stringer	D	Wood	Deteriorated	White	
1645	0.2	Negative	8/16/2018	11:52:25	10	Wall	A	Drywall	Intact	Gray	
1646	0.2	Negative	8/16/2018	11:52:37	10	Wall	B	Drywall	Intact	Gray	
1647	0.3	Negative	8/16/2018	11:52:52	10	Wall	C	Drywall	Intact	Gray	
1648	-0.2	Negative	8/16/2018	11:53:03	10	Wall	D	Drywall	Intact	Gray	
1649	0.2	Negative	8/16/2018	11:53:31	10	Ceiling	Ceiling	Drywall	Intact	White	
1650	10	Positive	8/16/2018	11:54:36	10	Window Casing	A	Wood	Deteriorated	White	11
1651	9	Positive	8/16/2018	11:54:50	10	Window Sill	A	Wood	Intact	White	11
1652	13	Positive	8/16/2018	11:55:23	10	Window Casing	B	Wood	Deteriorated	White	12
1653	16.7	Positive	8/16/2018	11:55:37	10	Window Sill	B	Wood	Intact	White	12
1654	0.2	Negative	8/16/2018	11:56:10	10	Door	D	Wood	Intact	White	
1655	10.4	Positive	8/16/2018	11:56:31	10	Door Casing	D	Wood	Intact	White	
1656	7.8	Positive	8/16/2018	11:56:57	10	Door Jamb	D	Wood	Deteriorated	White	
1657	9.8	Positive	8/16/2018	11:58:05	10	Door	D	Wood	Deteriorated	White	Closet
1658	9.9	Positive	8/16/2018	11:58:24	10	Door Casing	D	Wood	Intact	White	Closet
1659	10.1	Positive	8/16/2018	11:58:49	10	Door Jamb	D	Wood	Deteriorated	White	Closet
1660	1	Positive	8/16/2018	12:00:05	10	Wall	A	Drywall	Intact	Pink	Closet
1661	0.8	Negative	8/16/2018	12:00:38	10	Wall	B	Drywall	Deteriorated	Pink	Closet
1662	1.2	Positive	8/16/2018	12:00:54	10	Wall	B	Drywall	Deteriorated	Pink	Closet
1663	0.8	Negative	8/16/2018	12:01:36	10	Wall	C	Drywall	Intact	Pink	Closet
1664	0.9	Negative	8/16/2018	12:02:00	10	Wall	D	Drywall	Intact	Pink	Closet
1665	7.5	Positive	8/16/2018	12:02:36	10	Window Casing	A	Wood	Deteriorated	White	16
1666	8.6	Positive	8/16/2018	12:02:47	10	Window Sill	A	Wood	Deteriorated	White	16
1667	7.3	Positive	8/16/2018	12:03:19	10	Door Knob	D	Metal	Deteriorated	White	Closet
1668	9.7	Positive	8/16/2018	12:04:15	10	Baseboard	A	Wood	Deteriorated	White	Closet

Make: Heuresis
Model: Pb200i
Source: ^{57}Co
Serial Number: 1114

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383

XRF Results
815 Leland Avenue
South Bend, IN 46616

Reading #	mg/cm2	Result	Date Time	Room	Component	Side	Substrate	Condition	Color	Notes
1669	**9.7**	**Positive**	**8/16/2018 12:04:53**	**10**	**Baseboard**	**B**	**Wood**	**Deteriorated**	**White**	
1670	0.1	Negative	8/16/2018 12:06:25	10	Ceiling	Ceiling	Drywall	Intact	White	
1671	0.2	Negative	8/16/2018 12:08:09	11	Wall	A	Drywall	Intact	Gray	
1672	0.3	Negative	8/16/2018 12:08:23	11	Wall	B	Drywall	Intact	Gray	
1673	0.4	Negative	8/16/2018 12:08:35	11	Wall	C	Drywall	Intact	Gray	
1674	0.3	Negative	8/16/2018 12:08:48	11	Wall	D	Drywall	Intact	Gray	
1675	0.2	Negative	8/16/2018 12:09:58	11	Ceiling	Ceiling	Drywall	Intact	Gray	
1676	**9.5**	**Positive**	**8/16/2018 12:10:26**	**11**	**Window Casing**	**B**	**Wood**	**Intact**	**White**	**13**
1677	**11.3**	**Positive**	**8/16/2018 12:10:45**	**11**	**Window Casing**	**B**	**Wood**	**Deteriorated**	**White**	**13**
1678	**12**	**Positive**	**8/16/2018 12:10:59**	**11**	**Window Sill**	**B**	**Wood**	**Deteriorated**	**White**	**13**
1679	**11.2**	**Positive**	**8/16/2018 12:17:24**	**11**	**Door**	**C**	**Wood**	**Intact**	**White**	
1680	**15.6**	**Positive**	**8/16/2018 12:17:38**	**11**	**Door Casing**	**C**	**Wood**	**Intact**	**White**	
1681	**8.9**	**Positive**	**8/16/2018 12:18:04**	**11**	**Door Jamb**	**C**	**Wood**	**Intact**	**White**	
1682	**9.3**	**Positive**	**8/16/2018 12:18:48**	**11**	**Floor**	**Floor**	**Wood**	**Deteriorated**	**Gray**	**Closet**
1683	0.6	Negative	8/16/2018 12:19:28	11	Wall	A	Drywall	Intact	White	Closet
1684	0.5	Negative	8/16/2018 12:19:44	11	Wall	B	Drywall	Intact	White	Closet
1685	0.2	Negative	8/16/2018 12:19:57	11	Wall	C	Drywall	Intact	White	Closet
1686	0.5	Negative	8/16/2018 12:20:16	11	Wall	D	Drywall	Intact	White	Closet
1687	0.5	Negative	8/16/2018 12:20:32	11	Ceiling	Ceiling	Drywall	Intact	White	Closet
1688	0	Negative	8/16/2018 12:21:02	11	Door	D	Wood	Intact	White	Closet
1689	0.9	Negative	8/16/2018 12:21:55	11	Door	D	Wood	Intact	White	
1690	**9.4**	**Positive**	**8/16/2018 12:22:19**	**11**	**Door Casing**	**D**	**Wood**	**Intact**	**White**	
1691	**9.9**	**Positive**	**8/16/2018 12:22:36**	**11**	**Door Jamb**	**D**	**Wood**	**Deteriorated**	**White**	
1692	**13.6**	**Positive**	**8/16/2018 12:23:07**	**11**	**Baseboard**	**D**	**Wood**	**Deteriorated**	**White**	
1693	0.2	Negative	8/16/2018 12:24:08	12	Wall	A	Drywall	Intact	White	
1694	0.1	Negative	8/16/2018 12:24:20	12	Wall	B	Drywall	Intact	White	
1695	0.2	Negative	8/16/2018 12:24:38	12	Wall	C	Drywall	Intact	White	
1696	0.1	Negative	8/16/2018 12:24:56	12	Wall	D	Drywall	Deteriorated	White	
1697	0.2	Negative	8/16/2018 12:25:44	12	Wall	A	Drywall	Deteriorated	Off-White	
1698	0.1	Negative	8/16/2018 12:26:14	12	Ceiling	Ceiling	Drywall	Deteriorated	Off-White	
1699	-0.1	Negative	8/16/2018 12:26:57	12	Baseboard	A	Wood	Intact	Off-White	

Make: Heuresis
Model: Pb200i
Source: ^{57}Co
Serial Number: 1114

XRF Results
815 Leland Avenue
South Bend, IN 46616

Reading #	mg/cm2	Result	Date Time	Room	Component	Side	Substrate	Condition	Color	Notes
1700	**1.6**	**Positive**	**8/16/2018 12:27:23**	**12**	**Door**	**A**	**Wood**	**Intact**	**White**	
1701	**3.7**	**Positive**	**8/16/2018 12:27:39**	**12**	**Door Casing**	**A**	**Wood**	**Intact**	**White**	
1702	**3.5**	**Positive**	**8/16/2018 12:27:55**	**12**	**Door Jamb**	**A**	**Wood**	**Deteriorated**	**White**	
1703	0.4	Negative	8/16/2018 12:28:26	12	Vent Cover	A	Metal	Deteriorated	White	
1704	0.1	Negative	8/16/2018 12:29:13	13	Wall	A	Drywall	Intact	Gray	
1705	-0.1	Negative	8/16/2018 12:29:25	13	Wall	B	Drywall	Intact	Gray	
1706	0.3	Negative	8/16/2018 12:29:40	13	Wall	C	Drywall	Intact	Gray	
1707	0.3	Negative	8/16/2018 12:29:51	13	Wall	D	Drywall	Intact	Gray	
1708	0.3	Negative	8/16/2018 12:30:17	13	Ceiling	Ceiling	Drywall	Deteriorated	White	
1709	**15.7**	**Positive**	**8/16/2018 12:30:48**	**13**	**Window Casing**	**D**	**Wood**	**Intact**	**White**	**15**
1710	**19.5**	**Positive**	**8/16/2018 12:31:00**	**13**	**Window Sill**	**D**	**Wood**	**Intact**	**White**	**15**
1711	**16**	**Positive**	**8/16/2018 12:31:34**	**13**	**Door**	**B**	**Wood**	**Deteriorated**	**White**	
1712	**16**	**Positive**	**8/16/2018 12:31:53**	**13**	**Door Casing**	**B**	**Wood**	**Intact**	**White**	
1713	**5.3**	**Positive**	**8/16/2018 12:32:08**	**13**	**Door Jamb**	**B**	**Wood**	**Deteriorated**	**White**	
1714	**13**	**Positive**	**8/16/2018 12:32:53**	**13**	**Door**	**C**	**Wood**	**Intact**	**White**	
1715	**7.6**	**Positive**	**8/16/2018 12:33:07**	**13**	**Door Casing**	**C**	**Wood**	**Intact**	**White**	
1716	**9.1**	**Positive**	**8/16/2018 12:33:21**	**13**	**Door Jamb**	**C**	**Wood**	**Deteriorated**	**White**	
1717	0.6	Negative	8/16/2018 12:33:57	13	Ceiling	Ceiling	Drywall	Deteriorated	White	Closet
1718	0.7	Negative	8/16/2018 12:34:14	13	Wall	B	Drywall	Deteriorated	White	Closet
1719	0.1	Negative	8/16/2018 12:34:56	13	Wall	C	Drywall	Deteriorated	White	Closet
1720	0.5	Negative	8/16/2018 12:35:09	13	Wall	D	Drywall	Deteriorated	White	Closet
1721	0.3	Negative	8/16/2018 12:35:38	13	Shelf	C	Wood	Intact	White	Closet
1722	**16.7**	**Positive**	**8/16/2018 12:36:23**	**13**	**Baseboard**	**B**	**Wood**	**Intact**	**White**	
1723	0.3	Negative	8/16/2018 12:37:07	13	Vent Cover	B	Metal	Deteriorated	White	
1724	0.2	Negative	8/16/2018 12:37:55	14	Wall	A	Drywall	Intact	White	
1725	0.2	Negative	8/16/2018 12:38:53	14	Wall	B	Drywall	Intact	Gray	
1726	0.1	Negative	8/16/2018 12:39:06	14	Wall	C	Drywall	Intact	Gray	
1727	0.2	Negative	8/16/2018 12:39:18	14	Wall	D	Drywall	Intact	Gray	
1728	**11.7**	**Positive**	**8/16/2018 12:39:50**	**14**	**Door**	**Ceiling**	**Wood**	**Deteriorated**	**Gray**	
1729	**10.7**	**Positive**	**8/16/2018 12:40:06**	**14**	**Door Casing**	**Ceiling**	**Wood**	**Deteriorated**	**Gray**	
1730	0	Negative	8/16/2018 12:41:22	14	Door	B	Wood	Intact	Gray	

Make: Heuresis
Model: Pb200i
Source: ^{57}Co
Serial Number: 1114

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383

XRF Results
815 Leland Avenue
South Bend, IN 46616

Reading #	mg/cm2	Result	Date Time	Room	Component	Side	Substrate	Condition	Color	Notes
1731	**12.7**	**Positive**	**8/16/2018 12:41:34**	**14**	**Door Casing**	**B**	**Wood**	**Intact**	**Gray**	
1732	**10.7**	**Positive**	**8/16/2018 12:41:50**	**14**	**Door Jamb**	**B**	**Wood**	**Deteriorated**	**Gray**	
1733	**5.9**	**Positive**	**8/16/2018 12:44:14**	**14**	**Door**	**B**	**Wood**	**Deteriorated**	**White**	**To Rm. 11**
1734	**5.8**	**Positive**	**8/16/2018 12:44:34**	**14**	**Door Casing**	**B**	**Wood**	**Intact**	**White**	**To Rm. 11**
1735	**5.2**	**Positive**	**8/16/2018 12:44:52**	**14**	**Door Jamb**	**B**	**Wood**	**Deteriorated**	**White**	**To Rm. 11**
1736	**2**	**Positive**	**8/16/2018 12:45:41**	**14**	**Door**	**C**	**Wood**	**Intact**	**White**	
1737	0.8	Negative	8/16/2018 12:46:02	14	Door Hinger	C	Metal	Deteriorated	White	
1738	**14.9**	**Positive**	**8/16/2018 12:46:32**	**14**	**Door Casing**	**C**	**Wood**	**Intact**	**White**	
1739	**6.1**	**Positive**	**8/16/2018 12:46:50**	**14**	**Door Jamb**	**C**	**Wood**	**Deteriorated**	**White**	
1740	**14.4**	**Positive**	**8/16/2018 12:47:20**	**14**	**Door**	**D**	**Wood**	**Deteriorated**	**White**	
1741	**5.5**	**Positive**	**8/16/2018 12:47:37**	**14**	**Door Casing**	**D**	**Wood**	**Intact**	**White**	
1742	**4.7**	**Positive**	**8/16/2018 12:47:51**	**14**	**Door Jamb**	**D**	**Wood**	**Deteriorated**	**White**	
1743	**11.7**	**Positive**	**8/16/2018 12:48:24**	**14**	**Baseboard**	**D**	**Wood**	**Deteriorated**	**White**	
1744	**13.2**	**Positive**	**8/16/2018 12:49:07**	**14**	**Corner Trim**	**D**	**Wood**	**Intact**	**White**	
1745	0.1	Negative	8/16/2018 12:50:47	9	Wall	A	Drywall	Deteriorated	Blue	
1746	0.2	Negative	8/16/2018 12:51:00	9	Wall	B	Drywall	Deteriorated	Blue	
1747	0.1	Negative	8/16/2018 12:51:14	9	Wall	C	Drywall	Deteriorated	Blue	
1748	0.4	Negative	8/16/2018 12:51:27	9	Wall	D	Drywall	Deteriorated	Blue	
1749	0.3	Negative	8/16/2018 12:52:22	9	Ceiling	Ceiling	Drywall	Deteriorated	Blue	
1750	0	Negative	8/16/2018 12:53:17	9	Door	D	Wood	Deteriorated	Blue	
1751	0	Negative	8/16/2018 12:53:40	9	Door Casing	D	Wood	Deteriorated	Blue	
1752	0.5	Negative	8/16/2018 12:53:51	9	Door Jamb	D	Wood	Deteriorated	Blue	
1753	0	Negative	8/16/2018 12:54:26	9	Stair Riser	C	Wood	Deteriorated	Lt-Green	
1754	0.1	Negative	8/16/2018 12:54:42	9	Stair Stringer	D	Wood	Deteriorated	Lt-Green	
1755	-0.1	Negative	8/16/2018 12:55:02	9	Stair Tread	Floor	Wood	Deteriorated	Lt-Green	
1756	0.4	Negative	8/16/2018 12:56:13	9	Floor Joist	B	Wood	Deteriorated	White	
1757	0	Negative	8/16/2018 12:56:21	9	Floor Joist	C	Wood	Deteriorated	White	
1758	**5.5**	**Positive**	**8/16/2018 12:56:36**	**9**	**Floor Joist**	**D**	**Wood**	**Deteriorated**	**White**	
1759	0	Negative	8/16/2018 12:57:18	9	Wall	B	Brick	Intact	Gray	
1760	-0.1	Negative	8/16/2018 12:57:30	9	Wall	D	Brick	Intact	Gray	
1761	0.1	Negative	8/16/2018 12:58:14	9	Floor	D	Concrete	Intact	Gray	Und. Stair

Make: Heuresis
Model: Pb200i
Source: ^{57}Co
Serial Number: 1114

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383

XRF Results
815 Leland Avenue
South Bend, IN 46616

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Notes
1762	0.2	Negative	8/16/2018	13:04:20	15	Floor	Floor	Concrete	Intact	White	
1763	0.2	Negative	8/16/2018	13:04:51	15	Wall	A	Cinder Block	Intact	White	
1764	0.1	Negative	8/16/2018	13:05:06	15	Wall	B	Cinder Block	Intact	White	
1765	0.1	Negative	8/16/2018	13:05:22	15	Wall	C	Cinder Block	Intact	White	
1766	0.1	Negative	8/16/2018	13:05:35	15	Wall	D	Cinder Block	Intact	White	
1767	0.3	Negative	8/16/2018	13:06:25	15	Ductwork	D	Metal	Intact	Silver	
1768	0	Negative	8/16/2018	13:06:43	15	Ductwork	D	Wood	Intact	Silver	
1769	0	Negative	8/16/2018	13:07:31	15	Floor Joist	C	Wood	Deteriorated	Silver	
1770	0	Negative	8/16/2018	13:07:39	15	Floor Joist	C	Wood	Deteriorated	Silver	
1771	0.1	Negative	8/16/2018	13:08:31	15	Window Casing	B	Wood	Deteriorated	Gray	19
1772	0	Negative	8/16/2018	13:08:47	15	Window Sash	B	Wood	Deteriorated	Gray	19
1773	0.1	Negative	8/16/2018	13:09:37	15	Window Board	D	Wood	Intact	White	18
1774	-0.1	Negative	8/16/2018	13:10:13	16	Wall	A	Brick	Deteriorated	White	
1775	0.8	Negative	8/16/2018	13:10:27	16	Wall	B	Brick	Deteriorated	White	
1776	-0.1	Negative	8/16/2018	13:10:40	16	Wall	B	Brick	Deteriorated	White	
1777	0	Negative	8/16/2018	13:10:47	16	Wall	B	Brick	Deteriorated	White	
1778	0.1	Negative	8/16/2018	13:11:06	16	Wall	C	Brick	Deteriorated	White	
1779	0	Negative	8/16/2018	13:11:17	16	Wall	D	Brick	Deteriorated	White	
1780	0	Negative	8/16/2018	13:11:48	16	Column	D	Wood	Deteriorated	Gray	
1781	0	Negative	8/16/2018	13:12:19	16	Window Casing	C	Wood	Deteriorated	Gray	17
1782	0	Negative	8/16/2018	13:12:30	16	Window Casing	C	Wood	Deteriorated	Gray	17
1783	0.1	Negative	8/16/2018	13:12:40	16	Window Casing	C	Wood	Deteriorated	Gray	17
1784	-0.4	Negative	8/16/2018	13:13:53	17	Wall	A	Brick	Deteriorated	White	
1785	0	Negative	8/16/2018	13:14:25	17	Wall	B	Brick	Deteriorated	White	
1786	0.1	Negative	8/16/2018	13:14:37	17	Wall	C	Brick	Deteriorated	White	
1787	0	Negative	8/16/2018	13:15:11	17	Wall	D	Brick	Deteriorated	White	
1788	-0.2	Negative	8/16/2018	13:15:33	17	Door Casing	A	Wood	Deteriorated	White	
1789	0.4	Negative	8/16/2018	13:17:05	1	Floor	Floor	Wood	Intact	Natural	
1790	**1**	**Positive**	**8/16/2018**	**13:17:17**	**2**	**Floor**	**Floor**	**Wood**	**Intact**	**Natural**	
1791	0.6	Negative	8/16/2018	13:17:42	3	Floor	Floor	Wood	Intact	Natural	
1792	0.7	Negative	8/16/2018	13:18:00	4	Floor	Floor	Wood	Intact	Natural	

Make: Heuresis
Model: Pb200i
Source: ^{57}Co
Serial Number: 1114

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383

XRF Results
815 Leland Avenue
South Bend, IN 46616

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Notes
1793	0.1	Negative	8/16/2018	13:18:27	7	Floor	Floor	Wood	Intact	Natural	
1794	0.4	Negative	8/16/2018	13:34:34	Exterior House	Siding	A	Wood	Intact	Tan	
1795	**1.5**	**Positive**	**8/16/2018**	**13:35:11**	**Exterior House**	**Siding**	**B**	**Wood**	**Deteriorated**	**Tan**	
1796	**16.1**	**Positive**	**8/16/2018**	**13:35:53**	**Exterior House**	**Siding**	**C**	**Wood**	**Deteriorated**	**Tan**	
1797	0.2	Negative	8/16/2018	13:36:42	Exterior House	Siding	C	Metal	Intact	Tan	Porch
1798	0.1	Negative	8/16/2018	13:37:10	Exterior House	Siding	B	Wood	Intact	Tan	Porch
1799	**20.8**	**Positive**	**8/16/2018**	**13:38:01**	**18**	**Siding**	**A**	**Wood**	**Deteriorated**	**White**	
1800	0	Negative	8/16/2018	13:38:18	18	Siding	B	Wood	Deteriorated	White	
1801	**22.4**	**Positive**	**8/16/2018**	**13:38:38**	**18**	**Siding**	**D**	**Wood**	**Deteriorated**	**White**	
1802	0.1	Negative	8/16/2018	13:38:53	18	Wall	C	Wood	Deteriorated	White	
1803	-0.3	Negative	8/16/2018	13:39:22	18	Door Casing	C	Wood	Intact	White	
1804	-0.1	Negative	8/16/2018	13:39:32	18	Door Jamb	C	Wood	Intact	White	
1805	**10.5**	**Positive**	**8/16/2018**	**13:40:25**	**Exterior Garage**	**Siding**	**A**	**Wood**	**Deteriorated**	**Tan**	
1806	0.1	Negative	8/16/2018	13:40:42	Exterior Garage	Siding	B	Wood	Deteriorated	Tan	
1807	0	Negative	8/16/2018	13:40:53	Exterior Garage	Siding	B	Wood	Deteriorated	Tan	
1808	0	Negative	8/16/2018	13:41:01	Exterior Garage	Siding	B	Wood	Deteriorated	Tan	
1809	-0.1	Negative	8/16/2018	13:42:04	Exterior Garage	Door Casing	B	Wood	Intact	White	Overhead
1810	0	Negative	8/16/2018	13:44:36	Exterior House	Window Casing	B	Wood	Deteriorated	White	16
1811	0.2	Negative	8/16/2018	13:45:04	Exterior House	Window Sash	B	Wood	Deteriorated	White	19
1812	0.1	Negative	8/16/2018	13:45:43	Exterior House	Window Sash	B	Wood	Deteriorated	White	17
1813	0.2	Negative	8/16/2018	13:45:57	Exterior House	Window Casing	B	Wood	Deteriorated	White	17
1814	**24**	**Positive**	**8/16/2018**	**13:47:13**	**Exterior House**	**Siding**	**D**	**Wood**	**Deteriorated**	**Tan**	
1815	**4.4**	**Positive**	**8/16/2018**	**13:50:05**	**Exterior Garage**	**Siding**	**C**	**Wood**	**Deteriorated**	**Tan**	
1816	**5.7**	**Positive**	**8/16/2018**	**13:50:33**	**Exterior Garage**	**Window Casing**	**C**	**Wood**	**Intact**	**White**	
1817	**8.3**	**Positive**	**8/16/2018**	**13:51:01**	**Exterior Garage**	**Window Sash**	**C**	**Wood**	**Deteriorated**	**White**	
1818	**1.6**	**Positive**	**8/16/2018**	**13:51:14**	**Exterior Garage**	**Window Sill**	**C**	**Wood**	**Deteriorated**	**White**	
1819	**8.1**	**Positive**	**8/16/2018**	**13:52:02**	**Exterior Garage**	**Corner Trim**	**C**	**Wood**	**Deteriorated**	**White**	
1820	**10.7**	**Positive**	**8/16/2018**	**13:52:21**	**Exterior Garage**	**Corner Trim**	**D**	**Wood**	**Deteriorated**	**White**	
1821	**4.5**	**Positive**	**8/16/2018**	**13:52:39**	**Exterior Garage**	**Siding**	**D**	**Wood**	**Deteriorated**	**White**	
1822	**1**	**Positive**	**8/16/2018**	**13:53:20**	**Exterior Garage**	**Window Board**	**D**	**Wood**	**Intact**	**White**	
1823	**3.3**	**Positive**	**8/16/2018**	**13:54:00**	**Exterior Garage**	**Window Casing**	**D**	**Wood**	**Deteriorated**	**Tan**	

Make: Heuresis
Model: Pb200i
Source: ^{57}Co
Serial Number: 1114

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383

XRF Results
815 Leland Avenue
South Bend, IN 46616

Reading #	mg/cm2	Result	Date Time	Room	Component	Side	Substrate	Condition	Color	Notes
1824	0.1	Negative	8/16/2018 13:54:45	Exterior House	Downspout	C	Metal	Intact	Tan	
1825	**1.1**	**Positive**	**8/16/2018 13:55:31**	**Exterior House**	**Corner Trim**	**C**	**Wood**	**Deteriorated**	**White**	
1826	**15**	**Positive**	**8/16/2018 13:55:52**	**Exterior House**	**Corner Trim**	**D**	**Wood**	**Deteriorated**	**White**	
1827	**4.6**	**Positive**	**8/16/2018 13:56:56**	**Exterior House**	**Window Casing**	**D**	**Wood**	**Deteriorated**	**White**	**7**
1828	**15.8**	**Positive**	**8/16/2018 13:57:06**	**Exterior House**	**Window Casing**	**D**	**Wood**	**Deteriorated**	**White**	**8**
1829	**16.6**	**Positive**	**8/16/2018 13:57:12**	**Exterior House**	**Window Casing**	**D**	**Wood**	**Deteriorated**	**White**	**9**
1830	**18.3**	**Positive**	**8/16/2018 13:57:23**	**Exterior House**	**Window Casing**	**D**	**Wood**	**Deteriorated**	**White**	**10**
1831	0.1	Negative	8/16/2018 13:58:11	Exterior House	Window Casing	D	Wood	Deteriorated	White	18
1832	0	Negative	8/16/2018 13:58:18	Exterior House	Window Casing	D	Wood	Deteriorated	White	Basement
1833	0.2	Negative	8/16/2018 13:59:40	Exterior House	Ceiling	Ceiling	Wood	Intact	Natural	frt. porch
1834	**1.4**	**Positive**	**8/16/2018 14:00:12**	**Exterior House**	**Beam**	**A**	**Wood**	**Intact**	**White**	**frt. porch**
1835	0.6	Negative	8/16/2018 14:00:46	Exterior House	Beam	B	Wood	Intact	White	frt. porch
1836	0.3	Negative	8/16/2018 14:01:28	Exterior House	Column Cap	A	Concrete	Deteriorated	White	frt. porch
1837	**1**	**Positive**	**8/16/2018 14:02:41**	**Exterior House**	**Beam**	**D**	**Wood**	**Intact**	**White**	**frt. porch**
1838	-0.3	Negative	8/16/2018 14:03:34	Exterior House	Door	A	Wood	Intact	Natural	frt. porch
1839	**1.2**	**Positive**	**8/16/2018 14:03:57**	**Exterior House**	**Door Casing**	**A**	**Wood**	**Deteriorated**	**Natural**	**frt. porch**
1840	**18.4**	**Positive**	**8/16/2018 14:04:16**	**Exterior House**	**Door Jamb**	**A**	**Wood**	**Deteriorated**	**Natural**	**frt. porch**
1841	0.9	Negative	8/16/2018 14:04:32	Exterior House	Door Threshold	A	Wood	Deteriorated	Natural	frt. porch
1842	0.6	Negative	8/16/2018 14:05:05	Exterior House	Window Casing	A	Wood	Deteriorated	Natural	frt. porch
1843	**2.9**	**Positive**	**8/16/2018 14:11:18**	**Exterior House**	**Crown Molding**	**A**	**Wood**	**Deteriorated**	**White**	**frt. porch**
1844	**3.5**	**Positive**	**8/16/2018 14:11:56**	**Exterior House**	**Crown Molding**	**B**	**Wood**	**Intact**	**White**	**frt. porch**
1845	**3.4**	**Positive**	**8/16/2018 14:12:15**	**Exterior House**	**Crown Molding**	**C**	**Wood**	**Intact**	**White**	**frt. porch**
1846	0.6	Negative	8/16/2018 14:12:58	Exterior House	Corner Trim	A	Wood	Intact	White	frt. porch
1847	0.4	Negative	8/16/2018 14:13:26	Exterior House	Corner Trim	A	Wood	Intact	White	frt. porch
1848	**2.6**	**Positive**	**8/16/2018 14:13:40**	**Exterior House**	**Corner Trim**	**A**	**Wood**	**Intact**	**White**	**frt. porch**
1849	0.2	Negative	8/16/2018 14:14:57	Exterior House	Window Casing	B	Wood	Deteriorated	White	2
1850	**1.4**	**Positive**	**8/16/2018 14:17:33**	**Exterior House**	**Window Casing**	**B**	**Wood**	**Deteriorated**	**White**	**2**
1851	**15.9**	**Positive**	**8/16/2018 14:17:47**	**Exterior House**	**Window Casing**	**B**	**Wood**	**Deteriorated**	**White**	**3**
1852	**2.9**	**Positive**	**8/16/2018 14:18:01**	**Exterior House**	**Window Casing**	**B**	**Wood**	**Deteriorated**	**White**	**4**
1853	**2.9**	**Positive**	**8/16/2018 14:18:45**	**Exterior House**	**Window Casing**	**B**	**Wood**	**Deteriorated**	**White**	**i1**
1854	**7.9**	**Positive**	**8/16/2018 14:18:58**	**Exterior House**	**Window Casing**	**C**	**Wood**	**Deteriorated**	**White**	**6**

Make: Heuresis
Model: Pb200i
Source: ^{57}Co
Serial Number: 1114

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383

XRF Results
815 Leland Avenue
South Bend, IN 46616

Reading #	mg/cm2	Result	Date Time	Room	Component	Side	Substrate	Condition	Color	Notes
1855	1.7	Positive	8/16/2018 14:19:24	Exterior House	Window Casing	C	Wood	Deteriorated	White	5
1856	8.4	Positive	8/16/2018 14:19:36	Exterior House	Window Sash	C	Wood	Deteriorated	White	5
1857	0	Negative	8/16/2018 14:20:20	Exterior House	Porch Trim	C	Wood	Intact	White	
1858	0	Negative	8/16/2018 14:20:41	Exterior House	Door Casing	C	Wood	Intact	White	
1859	0.8	Negative	8/16/2018 14:21:18	Exterior House	Window Casing	C	Wood	Deteriorated	White	i2
1860	0.3	Negative	8/16/2018 14:21:30	Exterior House	Window Casing	C	Wood	Deteriorated	White	i2
1861	0.3	Negative	8/16/2018 14:21:40	Exterior House	Window Casing	C	Wood	Deteriorated	White	i2
1862	0.3	Negative	8/16/2018 14:21:51	Exterior House	Window Casing	C	Wood	Deteriorated	White	i2
1863	1.2	Positive	8/16/2018 14:30:24	Exterior House	Window Casing	A	Wood	Deteriorated	White	16
1864	0.2	Negative	8/16/2018 14:31:00	Exterior House	Window Casing	A	Wood	Deteriorated	White	11
1865	2.7	Positive	8/16/2018 14:31:16	Exterior House	Window Casing	A	Wood	Deteriorated	White	11
1866	2.3	Positive	8/16/2018 14:31:29	Exterior House	Window Casing	A	Wood	Deteriorated	White	Attic
1867	2.3	Positive	8/16/2018 14:32:18	Exterior House	Window Casing	B	Wood	Deteriorated	White	12
1868	2.3	Positive	8/16/2018 14:33:34	Exterior House	Window Casing	B	Wood	Deteriorated	White	13
1869	14.4	Positive	8/16/2018 14:34:29	Exterior House	Window Casing	C	Wood	Deteriorated	White	14
1870	18.1	Positive	8/16/2018 14:36:25	Exterior House	Soffit	C	Wood	Deteriorated	Tan	
1871	20.6	Positive	8/16/2018 14:36:56	Exterior House	Soffit	B	Wood	Deteriorated	Tan	
1872	17.8	Positive	8/16/2018 14:37:15	Exterior House	Fascia	B	Wood	Deteriorated	White	
1873	1.1	Positive	8/16/2018 14:37:23	Exterior House	Fascia	B	Wood	Deteriorated	White	
1874	19	Positive	8/16/2018 14:37:52	Exterior House	Crown Molding	B	Wood	Deteriorated	White	
1875	17	Positive	8/16/2018 14:38:11	Exterior House	Crown Molding	C	Wood	Deteriorated	White	
1876	13.9	Positive	8/16/2018 14:40:52	Exterior Garage	Soffit	B	Wood	Deteriorated	Tan	
1877	5.7	Positive	8/16/2018 14:41:09	Exterior Garage	Fascia	B	Wood	Deteriorated	Tan	
1878	14.7	Positive	8/16/2018 14:41:44	Exterior Garage	Fascia	A	Wood	Deteriorated	Tan	
1879	11.5	Positive	8/16/2018 14:41:57	Exterior Garage	Soffit	A	Wood	Deteriorated	Tan	
1880	23.1	Positive	8/16/2018 14:43:23	Exterior Garage	Soffit	D	Wood	Deteriorated	Tan	
1881	22.1	Positive	8/16/2018 14:43:35	Exterior Garage	Fascia	D	Wood	Deteriorated	Tan	
1882	23.5	Positive	8/16/2018 14:43:46	Exterior Garage	Fascia	C	Wood	Deteriorated	Tan	
1883	24	Positive	8/16/2018 14:44:04	Exterior Garage	Fascia	C	Wood	Deteriorated	Tan	
1884	12.1	Positive	8/16/2018 14:46:23	Exterior House	Window Casing	D	Wood	Deteriorated	White	15
1885	19.3	Positive	8/16/2018 14:47:12	Exterior House	Soffit	D	Wood	Deteriorated	Tan	

Make: Heuresis
Model: Pb200i
Source: ^{57}Co
Serial Number: 1114

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383

XRF Results
815 Leland Avenue
South Bend, IN 46616

Reading #	mg/cm2	Result	Date Time	Room	Component	Side	Substrate	Condition	Color	Notes
1886	**19.9**	**Positive**	**8/16/2018 14:47:25**	**Exterior House**	**Soffit**	**A**	**Wood**	**Deteriorated**	**Tan**	
1887	**21.8**	**Positive**	**8/16/2018 14:48:04**	**Exterior House**	**Fascia**	**A**	**Wood**	**Deteriorated**	**White**	
1888	**10.9**	**Positive**	**8/16/2018 14:48:16**	**Exterior House**	**Fascia**	**D**	**Wood**	**Deteriorated**	**White**	
1889	**9.1**	**Positive**	**8/16/2018 14:48:33**	**Exterior House**	**Crown Molding**	**D**	**Wood**	**Deteriorated**	**White**	
1890	**15.8**	**Positive**	**8/16/2018 14:48:46**	**Exterior House**	**Crown Molding**	**A**	**Wood**	**Deteriorated**	**White**	
1891	**1**	**Positive**	**8/16/2018 14:49:56**	**Calibrate**						**1.0Front**
1892	0.9	Negative	8/16/2018 14:50:11	Calibrate						1.0Front
1893	0.9	Negative	8/16/2018 14:50:26	Calibrate						1.0Back
1894	**6.7**	**Positive**	**8/16/2018 15:31:01**	**Exterior House**	**Door**	**B**	**Wood**	**Deteriorated**	**White**	**To Int.**
1895	**1.8**	**Positive**	**8/16/2018 15:31:12**	**Exterior House**	**Door Casing**	**B**	**Wood**	**Deteriorated**	**White**	**To Int.**
1896	**17.3**	**Positive**	**8/16/2018 15:31:22**	**Exterior House**	**Door Jamb**	**B**	**Wood**	**Deteriorated**	**White**	**To Int.**
1897	0.3	Negative	8/16/2018 15:31:33	Exterior House	Door Threshold	B	Wood	Deteriorated	White	To Int.
1898	0.9	Negative	8/16/2018 15:35:17	Calibrate						1.0Front
1899	0.9	Negative	8/16/2018 15:35:33	Calibrate						1.0Front
1900	0.9	Negative	8/16/2018 15:35:47	Calibrate						1.0Back

Make: Heuresis
Model: Pb200i
Source: ^{57}Co
Serial Number: 1114

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383

XRF Results
Positive and Deteriorated
815 Leland Avenue
South Bend, IN 46616

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Notes
1494	17.8	Positive	8/16/2018	10:24:02	1	Door Jamb	A	Wood	Deteriorated	White	
1498	9.5	Positive	8/16/2018	10:27:34	1	Door Jamb	B	Wood	Deteriorated	White	
1504	7.9	Positive	8/16/2018	10:32:23	1	Door Jamb	C	Wood	Deteriorated	White	
1528	18.6	Positive	8/16/2018	10:49:38	3	Door Jamb	B	Wood	Deteriorated	White	
1529	1.3	Positive	8/16/2018	10:50:12	3	Door	B	Wood	Deteriorated	White	
1544	3.8	Positive	8/16/2018	10:58:04	4	Baseboard	C	Wood	Deteriorated	White	
1545	4.4	Positive	8/16/2018	10:58:41	4	Window Casing	B	Wood	Deteriorated	White	4
1546	6.9	Positive	8/16/2018	10:59:08	4	Window Sill	B	Wood	Deteriorated	White	4
1547	4.9	Positive	8/16/2018	10:59:37	4	Window Casing	C	Wood	Deteriorated	White	5
1578	3.9	Positive	8/16/2018	11:14:32	6	Door Jamb	A	Wood	Deteriorated	White	
1581	6.2	Positive	8/16/2018	11:15:50	6	Door Casing	B	Wood	Deteriorated	White	
1582	6.2	Positive	8/16/2018	11:16:07	6	Door Jamb	B	Wood	Deteriorated	White	
1584	6.9	Positive	8/16/2018	11:17:14	6	Door Casing	C	Wood	Deteriorated	White	
1585	10.1	Positive	8/16/2018	11:18:05	6	Door Jamb	C	Wood	Deteriorated	White	
1591	7.6	Positive	8/16/2018	11:20:36	6	Baseboard	C	Wood	Deteriorated	White	
1604	14.4	Positive	8/16/2018	11:29:37	7	Floor	Floor	Wood	Deteriorated	Tan	Closet
1605	1.5	Positive	8/16/2018	11:30:49	7	Door	A	Wood	Deteriorated	Green	Closet
1613	11.5	Positive	8/16/2018	11:34:37	7	Door Jamb	A	Wood	Deteriorated	White	
1616	1.8	Positive	8/16/2018	11:36:19	7	Door Casing	B	Wood	Deteriorated	Natural	
1618	1.9	Positive	8/16/2018	11:36:57	7	Door Casing	C	Wood	Deteriorated	White	
1619	1.9	Positive	8/16/2018	11:37:13	7	Door Jamb	C	Wood	Deteriorated	White	
1629	8	Positive	8/16/2018	11:43:32	8	Crown Molding	A	Wood	Deteriorated	Gray	
1635	11.7	Positive	8/16/2018	11:46:16	8	Baluster	A	Wood	Deteriorated	White	
1638	11.6	Positive	8/16/2018	11:47:09	8	Baluster	B	Wood	Deteriorated	White	
1643	7.6	Positive	8/16/2018	11:49:34	8	Stair Stringer	C	Wood	Deteriorated	White	
1644	9.8	Positive	8/16/2018	11:49:50	8	Stair Stringer	D	Wood	Deteriorated	White	
1650	10	Positive	8/16/2018	11:54:36	10	Window Casing	A	Wood	Deteriorated	White	11
1652	13	Positive	8/16/2018	11:55:23	10	Window Casing	B	Wood	Deteriorated	White	12
1656	7.8	Positive	8/16/2018	11:56:57	10	Door Jamb	D	Wood	Deteriorated	White	
1657	9.8	Positive	8/16/2018	11:58:05	10	Door	D	Wood	Deteriorated	White	Closet
1659	10.1	Positive	8/16/2018	11:58:49	10	Door Jamb	D	Wood	Deteriorated	White	Closet

Make: Heuresis
Model: Pb200i
Source: ^{57}Co
Serial Number: 1114

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383

XRF Results
Positive and Deteriorated
815 Leland Avenue
South Bend, IN 46616

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Notes
1662	1.2	Positive	8/16/2018	12:00:54	10	Wall	B	Drywall	Deteriorated	Pink	Closet
1665	7.5	Positive	8/16/2018	12:02:36	10	Window Casing	A	Wood	Deteriorated	White	16
1666	8.6	Positive	8/16/2018	12:02:47	10	Window Sill	A	Wood	Deteriorated	White	16
1667	7.3	Positive	8/16/2018	12:03:19	10	Door Knob	D	Metal	Deteriorated	White	Closet
1668	9.7	Positive	8/16/2018	12:04:15	10	Baseboard	A	Wood	Deteriorated	White	Closet
1669	9.7	Positive	8/16/2018	12:04:53	10	Baseboard	B	Wood	Deteriorated	White	
1677	11.3	Positive	8/16/2018	12:10:45	11	Window Casing	B	Wood	Deteriorated	White	13
1678	12	Positive	8/16/2018	12:10:59	11	Window Sill	B	Wood	Deteriorated	White	13
1682	9.3	Positive	8/16/2018	12:18:48	11	Floor	Floor	Wood	Deteriorated	Gray	Closet
1691	9.9	Positive	8/16/2018	12:22:36	11	Door Jamb	D	Wood	Deteriorated	White	
1692	13.6	Positive	8/16/2018	12:23:07	11	Baseboard	D	Wood	Deteriorated	White	
1702	3.5	Positive	8/16/2018	12:27:55	12	Door Jamb	A	Wood	Deteriorated	White	
1711	16	Positive	8/16/2018	12:31:34	13	Door	B	Wood	Deteriorated	White	
1713	5.3	Positive	8/16/2018	12:32:08	13	Door Jamb	B	Wood	Deteriorated	White	
1716	9.1	Positive	8/16/2018	12:33:21	13	Door Jamb	C	Wood	Deteriorated	White	
1728	11.7	Positive	8/16/2018	12:39:50	14	Door	Ceiling	Wood	Deteriorated	Gray	
1729	10.7	Positive	8/16/2018	12:40:06	14	Door Casing	Ceiling	Wood	Deteriorated	Gray	
1732	10.7	Positive	8/16/2018	12:41:50	14	Door Jamb	B	Wood	Deteriorated	Gray	
1733	5.9	Positive	8/16/2018	12:44:14	14	Door	B	Wood	Deteriorated	White	To Rm. 11
1735	5.2	Positive	8/16/2018	12:44:52	14	Door Jamb	B	Wood	Deteriorated	White	To Rm. 11
1739	6.1	Positive	8/16/2018	12:46:50	14	Door Jamb	C	Wood	Deteriorated	White	
1740	14.4	Positive	8/16/2018	12:47:20	14	Door	D	Wood	Deteriorated	White	
1742	4.7	Positive	8/16/2018	12:47:51	14	Door Jamb	D	Wood	Deteriorated	White	
1743	11.7	Positive	8/16/2018	12:48:24	14	Baseboard	D	Wood	Deteriorated	White	
1758	5.5	Positive	8/16/2018	12:56:36	9	Floor Joist	D	Wood	Deteriorated	White	
1795	1.5	Positive	8/16/2018	13:35:11	Exterior House	Siding	B	Wood	Deteriorated	Tan	
1796	16.1	Positive	8/16/2018	13:35:53	Exterior House	Siding	C	Wood	Deteriorated	Tan	
1799	20.8	Positive	8/16/2018	13:38:01	18	Siding	A	Wood	Deteriorated	White	
1801	22.4	Positive	8/16/2018	13:38:38	18	Siding	D	Wood	Deteriorated	White	
1805	10.5	Positive	8/16/2018	13:40:25	Exterior Garage	Siding	A	Wood	Deteriorated	Tan	
1814	24	Positive	8/16/2018	13:47:13	Exterior House	Siding	D	Wood	Deteriorated	Tan	

Make: Heuresis
Model: Pb200i
Source: ^{57}Co
Serial Number: 1114

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383

XRF Results
Positive and Deteriorated
815 Leland Avenue
South Bend, IN 46616

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Notes
1815	4.4	Positive	8/16/2018	13:50:05	Exterior Garage	Siding	C	Wood	Deteriorated	Tan	
1817	8.3	Positive	8/16/2018	13:51:01	Exterior Garage	Window Sash	C	Wood	Deteriorated	White	
1818	1.6	Positive	8/16/2018	13:51:14	Exterior Garage	Window Sill	C	Wood	Deteriorated	White	
1819	8.1	Positive	8/16/2018	13:52:02	Exterior Garage	Corner Trim	C	Wood	Deteriorated	White	
1820	10.7	Positive	8/16/2018	13:52:21	Exterior Garage	Corner Trim	D	Wood	Deteriorated	White	
1821	4.5	Positive	8/16/2018	13:52:39	Exterior Garage	Siding	D	Wood	Deteriorated	White	
1823	3.3	Positive	8/16/2018	13:54:00	Exterior Garage	Window Casing	D	Wood	Deteriorated	Tan	
1825	1.1	Positive	8/16/2018	13:55:31	Exterior House	Corner Trim	C	Wood	Deteriorated	White	
1826	15	Positive	8/16/2018	13:55:52	Exterior House	Corner Trim	D	Wood	Deteriorated	White	
1827	4.6	Positive	8/16/2018	13:56:56	Exterior House	Window Casing	D	Wood	Deteriorated	White	7
1828	15.8	Positive	8/16/2018	13:57:06	Exterior House	Window Casing	D	Wood	Deteriorated	White	8
1829	16.6	Positive	8/16/2018	13:57:12	Exterior House	Window Casing	D	Wood	Deteriorated	White	9
1830	18.3	Positive	8/16/2018	13:57:23	Exterior House	Window Casing	D	Wood	Deteriorated	White	10
1839	1.2	Positive	8/16/2018	14:03:57	Exterior House	Door Casing	A	Wood	Deteriorated	Natural	frt. porch
1840	18.4	Positive	8/16/2018	14:04:16	Exterior House	Door Jamb	A	Wood	Deteriorated	Natural	frt. porch
1843	2.9	Positive	8/16/2018	14:11:18	Exterior House	Crown Molding	A	Wood	Deteriorated	White	frt. porch
1850	1.4	Positive	8/16/2018	14:17:33	Exterior House	Window Casing	B	Wood	Deteriorated	White	2
1851	15.9	Positive	8/16/2018	14:17:47	Exterior House	Window Casing	B	Wood	Deteriorated	White	3
1852	2.9	Positive	8/16/2018	14:18:01	Exterior House	Window Casing	B	Wood	Deteriorated	White	4
1853	2.9	Positive	8/16/2018	14:18:45	Exterior House	Window Casing	B	Wood	Deteriorated	White	i1
1854	7.9	Positive	8/16/2018	14:18:58	Exterior House	Window Casing	C	Wood	Deteriorated	White	6
1855	1.7	Positive	8/16/2018	14:19:24	Exterior House	Window Casing	C	Wood	Deteriorated	White	5
1856	8.4	Positive	8/16/2018	14:19:36	Exterior House	Window Sash	C	Wood	Deteriorated	White	5
1863	1.2	Positive	8/16/2018	14:30:24	Exterior House	Window Casing	A	Wood	Deteriorated	White	16
1865	2.7	Positive	8/16/2018	14:31:16	Exterior House	Window Casing	A	Wood	Deteriorated	White	11
1866	2.3	Positive	8/16/2018	14:31:29	Exterior House	Window Casing	A	Wood	Deteriorated	White	Attic
1867	2.3	Positive	8/16/2018	14:32:18	Exterior House	Window Casing	B	Wood	Deteriorated	White	12
1868	2.3	Positive	8/16/2018	14:33:34	Exterior House	Window Casing	B	Wood	Deteriorated	White	13
1869	14.4	Positive	8/16/2018	14:34:29	Exterior House	Window Casing	C	Wood	Deteriorated	White	14
1870	18.1	Positive	8/16/2018	14:36:25	Exterior House	Soffit	C	Wood	Deteriorated	Tan	
1871	20.6	Positive	8/16/2018	14:36:56	Exterior House	Soffit	B	Wood	Deteriorated	Tan	

Make: Heuresis
Model: Pb200i
Source: ^{57}Co
Serial Number: 1114

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383

XRF Results
Positive and Deteriorated
815 Leland Avenue
South Bend, IN 46616

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Notes
1872	17.8	Positive	8/16/2018	14:37:15	Exterior House	Fascia	B	Wood	Deteriorated	White	
1873	1.1	Positive	8/16/2018	14:37:23	Exterior House	Fascia	B	Wood	Deteriorated	White	
1874	19	Positive	8/16/2018	14:37:52	Exterior House	Crown Molding	B	Wood	Deteriorated	White	
1875	17	Positive	8/16/2018	14:38:11	Exterior House	Crown Molding	C	Wood	Deteriorated	White	
1876	13.9	Positive	8/16/2018	14:40:52	Exterior Garage	Soffit	B	Wood	Deteriorated	Tan	
1877	5.7	Positive	8/16/2018	14:41:09	Exterior Garage	Fascia	B	Wood	Deteriorated	Tan	
1878	14.7	Positive	8/16/2018	14:41:44	Exterior Garage	Fascia	A	Wood	Deteriorated	Tan	
1879	11.5	Positive	8/16/2018	14:41:57	Exterior Garage	Soffit	A	Wood	Deteriorated	Tan	
1880	23.1	Positive	8/16/2018	14:43:23	Exterior Garage	Soffit	D	Wood	Deteriorated	Tan	
1881	22.1	Positive	8/16/2018	14:43:35	Exterior Garage	Fascia	D	Wood	Deteriorated	Tan	
1882	23.5	Positive	8/16/2018	14:43:46	Exterior Garage	Fascia	C	Wood	Deteriorated	Tan	
1883	24	Positive	8/16/2018	14:44:04	Exterior Garage	Fascia	C	Wood	Deteriorated	Tan	
1884	12.1	Positive	8/16/2018	14:46:23	Exterior House	Window Casing	D	Wood	Deteriorated	White	15
1885	19.3	Positive	8/16/2018	14:47:12	Exterior House	Soffit	D	Wood	Deteriorated	Tan	
1886	19.9	Positive	8/16/2018	14:47:25	Exterior House	Soffit	A	Wood	Deteriorated	Tan	
1887	21.8	Positive	8/16/2018	14:48:04	Exterior House	Fascia	A	Wood	Deteriorated	White	
1888	10.9	Positive	8/16/2018	14:48:16	Exterior House	Fascia	D	Wood	Deteriorated	White	
1889	9.1	Positive	8/16/2018	14:48:33	Exterior House	Crown Molding	D	Wood	Deteriorated	White	
1890	15.8	Positive	8/16/2018	14:48:46	Exterior House	Crown Molding	A	Wood	Deteriorated	White	
1894	6.7	Positive	8/16/2018	15:31:01	Exterior House	Door	B	Wood	Deteriorated	White	To Int.
1895	1.8	Positive	8/16/2018	15:31:12	Exterior House	Door Casing	B	Wood	Deteriorated	White	To Int.
1896	17.3	Positive	8/16/2018	15:31:22	Exterior House	Door Jamb	B	Wood	Deteriorated	White	To Int.

Make: Heuresis
Model: Pb200i
Source: ^{57}Co
Serial Number: 1114

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383

8.5 Interior Dust Sampling

Dust samples must be collected from a window sill and floor area in all rooms of the housing unit where young children will come into contact with dust. A total of fifteen (15) dust wipe samples were collected in an effort to help to determine the levels of lead-containing dust on the interior window sills, window troughs, and floors. These samples were collected from areas most likely to be lead-contaminated if lead-in-dust is present. These samples were collected in accordance with the requirements of ASTM Standard E-1728, Standard Practice for Field Collection of Settled Dust Samples Using Wipe Sampling Methods for Lead Determination by Atomic Spectrometry Techniques. This Program has elected to use a more stringent HUD regulation to define lead dust hazards in residences: floors ≥10 μg/ft² (micrograms per square foot); interior window sills and troughs ≥100 μg/ft² and porch floors ≥40 μg/ft². Please refer to *Appendix A – Dust and Soil Laboratory Reports* for the laboratory results and to *Appendix I – Lead and Lead Safety Information and Resources* for a list of publications and resources addressing lead hazards and their health effects. As indicated below, a hazardous level of leaded dust, as defined by this program, was detected in five (5) samples. These samples were obtained from the rooms and locations listed below and constitute a dust-lead hazard in those rooms. Testing data reported below indicate dust lead levels above the EPA Hazardous Levels of Lead regulations that were published on January 5, 2001. **All dust lead levels can be found within the laboratory report, which can be found in Appendix A.**

Table 8.3
Lead Dust Hazards

Sample ID	Type	Location	Component	Sample Location	Test Results (μg/ft²)
815-W03	Dust Wipe	Room 2	Window Trough	Window 1 –Side A	150
815-W07	Dust Wipe	Room 18	Floor	Porch – Side C	65
815-W08	Dust Wipe	Room 15	Floor	Laundry – Side A	660
815-W10	Dust Wipe	Room 10	Window Trough	Window 11-Side A	900
815-W15	Dust Wipe	Front Porch	Floor	Front Porch Floor	110

Laboratory Information:

ISDH Environmental Lead Laboratory	**550 W. 16th Street Indianapolis, IN 46202**
Dust Wipe Analysis Protocol:	SOP MT-102
Dust Wipe medium used:	Lead-Wipes, ASTM E1792
Environmental Lead Laboratory Accreditation:	L2416.01

8.6 Soil Sampling and Laboratory Information

In accordance with the requirements of ASTM Standard E-1727, Standard Practice for Field Collection of Soil Samples for Lead Determination by Atomic Spectrometry Techniques soil samples are only collected when bare soil is identified. Two (2) soil samples were collected at this residence. One sample was collected from the bare soil around the exterior drip line on all Sides A – D, and the other was collected from the sandbox on Side C of the residence. As indicated below, the soil sampling results identified no soil lead levels at or above the EPA Hazardous Levels of Lead regulations that were published on January 5, 2001. Please refer to *Appendix A – Dust and Soil Laboratory Reports* for the detailed analytical report.

Table 8.4
Lead Soil Hazards

Sample ID	Type	Location	Comments	Test Results (mg/Kg-dry)
No Lead Soil Hazards Identified.				

Laboratory Information:

ISDH Environmental Lead Laboratory	**550 W. 16th Street Indianapolis, IN 46202**
Soil Analysis Method:	6010
Environmental Lead Laboratory Accreditation:	L2416.01

8.7 Lead-Based Paint Hazard Control Options

Lead abatement, interim controls, lead-safe work practices and worker/occupant protection practices complying with current EPA, HUD and OSHA standards will be necessary to safely complete all work involving the disturbance of LBP coated surfaces and components. In addition, any work considered lead hazard control will enlist the use of interim control (temporary) methods and/or abatement (permanent) methods. It should be noted that all lead hazard control activities have the potential of creating additional hazards or hazards that were not present before. Properly trained and certified persons, as well as properly licensed firms (as mandated), should accomplish all abatement/interim control activities conducted at this residence.

Details for the listed lead hazard control options and issues surrounding occupant/worker protection practices can be found in the publication entitled: *Guidelines for the Evaluation and Control of LBP Hazards in Housing* published by HUD, the Environmental Protection Agency (EPA) lead-based paint regulations, and the Occupational Safety and Health Administration (OSHA) regulations found in its Lead in Construction Industry Standard.

Interim controls, as defined by HUD, means a set of measures designed to temporarily reduce human exposure to LBP hazards and/or lead-containing materials. These activities include, but are not limited to: component and/or substrate stabilization, paint and varnish stabilization, and tilling and placement of appropriate ground cover over bare soil areas.

Abatement, as defined by HUD, means any set of measures designed to permanently eliminate LBP and/or LBP hazards. The product manufacturer and/or contractor must warrant abatement methods to last a minimum of twenty (20) years, or these methods must have a design life of at least twenty (20) years. These activities include, but are not necessarily limited to: the removal of LBP from substrates and components; the replacement of lead-based paint components; the permanent enclosure of LBP with construction materials; the encapsulation of LBP with approved products; and the removal or permanent covering (concrete or asphalt) of soil-lead hazards.

9.0 Health & Safety Evaluation

As part of the Lead Inspection and Risk Assessment, a Health and Safety Evaluation was conducted. This evaluation was conducted to: a) determine if a Walk Away situation is evident; and b) identify any issues that would cause any remediation measure to fail.

The home at 815 Leland, South Bend, IN 46616 did not exhibit conditions that would necessitate Walk Away. However, the following health and safety items were identified:

1. Foundation cracking and fissuring with evident settling.
2. Gutters need cleaning.
3. No Carbon Monoxide Detector present.

These items should be given consideration when developing the remediation specifications.

Appendices

Appendix A

Dust and Soil Laboratory Reports

ANALYTICAL REPORT

Sample Delivery Group	15171
Submitter	ISDH
Submitter's Project ID	26636
Date Received	08/20/18
Date Completed	08/27/18

Table of Contents

Lead Analysis Report 2

REPORTED

AUG 31 2018 LB

Indiana State Department of Health
Laboratory Services
Chemistry Laboratory

Approvals for the included reports

Report	Analyst	Marsha Rinehart, Supervisor	Ray Beebe, QAO
Lead Analysis Report	TM	MR	

550 West 16th Street, Indianapolis, IN 46202 (317)921-5500

Lead Analysis Report
Analytical Report

ISDH Number	: 644186	Date of Collection	: 08/14/18
ISDH SDG	: 15171	Date Received	: 08/20/18
Submitter's ID	: 01	Date Completed	: 08/27/18
Submitter's Project ID	: 26636	Matrix	: soil
Collector	: UNGER	Reviewed by	: LD
Location	: AMERECO	QC	: OK
Site	:	Sample Condition	: OK

	Report Limit	Result	Units	Prep Method	Prep Date	Analysis Method	Analysis Date
Lead	60	<60	mg/kg	MT-114	08/24/18	6010	08/27/18

Results refer only to the sample received. Results are not blank corrected. Unless otherwise noted, all QC measurements were acceptable. Questions, comments and suggestions may be sent to Marsha Rinehart, mrinehart@isdh.in.gov, 317-921-5559

550 West 16th Street, Indianapolis, IN 46202 (317)921-5500

Analytical Report

ISDH Number	: 644187	Date of Collection	: 08/14/18
ISDH SDG	: 15171	Date Received	: 08/20/18
Submitter's ID	: 02	Date Completed	: 08/27/18
Submitter's Project ID	: 26636	Matrix	: soil
Collector	: UNGER	Reviewed by	: LD
Location	: AMERECO	QC	: OK
Site	:	Sample Condition	: OK

	Report Limit	Result	Units	Prep Method	Prep Date	Analysis Method	Analysis Date
Lead	60	1120	mg/kg	MT-114	08/24/18	6010	08/27/18

Results refer only to the sample received. Results are not blank corrected. Unless otherwise noted, all QC measurements were acceptable. Questions, comments and suggestions may be sent to Marsha Rinehart, mrinehart@isdh.in.gov, 317-921-5559

550 West 16th Street, Indianapolis, IN 46202 (317)921-5500

AMERECO ENGINEERING
54 Michigan Avenue
Valparaiso, Indiana 46383

26636
SDG# 15171

Office: 219-531-0531
Fax: 219-464-9166

Chain of Custody - Soil

Contact Information

Name: Amereco Engineering
Street Address: 54 Michigan Avenue
City, State, Zip: Valparaiso, IN 46383
Phone: 219-531-0531
Fax: 219-464-9166
Email: labresults@amerecoeng.com

Project Information

Project#: 18.3404
Name of Risk Assessor: D. Unger
Date of Sample Collection: 8 / 14 / 18
Property Address: 815 Leland Ave
South Bend, IN

Type of Area Sampled	Sample Number	Location of Composite Sample(s)	Approximate Area of Bare Soil Represented by Composite Sample (ft.^{2})	Laboratory Result (ppm or µg/g)
Bare Soil in Play Areas	815-501	~~Exterior House Dripline~~		
		Sand box - Side C		
		Lab #: 644186		
Bare Soil in Non-Play Areas in Dripline/ Foundation Area	815-502	Exterior House Dripline within 3 ft		
		from House. All sides A-D.		
		7 aliquots		
		Lab #: 644187		
Bare Soil in Non-Play Areas in the Rest of the Yard				

Analysis Requested: Lead
Total Number of Samples on this Page: 2
Relinquished By (Signature): Mike Unger
Date & Time: 8 / 17 / 18 5:00 am (pm)
Received By (Signature):
Date & Time: 8 / 20 / 18 11:00 (am) pm

Eric J. Holcomb
Governor

Pam Pontones, MA
Deputy State Health Commissioner
State Epidemiologist

Indiana State Department of Health

An Equal Opportunity Employer

Indiana State Department of Health Laboratories
Lead Analysis Report

ISDH Sample Set No.	**15170** **Study No. 26635**
Submitter	**AMERECO**
Collected by	**UNGER**
No. wipe samples	**15**
No. paint samples	**0**
Date Received	**8/20/2018**
Date Analyzed	**8/23/2018**
Date of Report	**8/23/2018**
Dust Wipe Method	**SOP MT-102**
Reporting Limit (wipe)	**5 ug/sample**
Paint Method	**SOP MT-106**
Reporting Limit (paint)	**0.010 %**
Condition of Samples	**OK ☒ Not OK ☐ Other**
Quality Control	**OK ☒ Not OK ☐**
Analyst	**Mike Oberthur** MO
Quality Assurance Coordinator	**Raymond Beebe** RB | Mail
Comment	

REPORTED
AUG 27 2018
MO
Indiana State Department of Health
Laboratory Services
Chemistry Laboratory

See attached submission forms for analysis results. Results apply only to items tested. Results not corrected for blanks. All QC results are acceptable unless otherwise noted. Indiana State Department of Health Laboratories is an AIHA accredited ELLAP laboratory. Questions, comments and suggestions should be directed to Marsha Rinehart, mrinehart@isdh.in.gov, 317-921-5569.

Laboratories • 550 West 16th Street • Indianapolis, Indiana 46202 • 317.921.5500 • *http://www.statehealth.IN.gov*

ISDH STUDY: 26635

INDIANA STATE DEPARTMENT OF HEALTH
ENVIRONMENTAL LEAD LABORATORY – DUST WIPE SUBMISSION

Your Contact Information		*Sampling Information*	
Organization: *	Amereco, Inc.	Date Sampled: *	8/16/18
Address (1):	54 Michigan Avenue	Property Address (1):*	815 Leland Ave
Address (2):		Property Address (2):	
City, Zip Code:	Valparaiso, 46383	City, Zip Code:	South Bend, 46616
Phone:	219.531.0531	Collected By:*	D. Unger
Email for Results:*	labresults@amerecoeng.com	Assessor License #:	INP001416
Email for Results:		Clearance:	Yes ○ No ☑

*Required Fields

Project # 18.3404

YOUR SAMPLE ID	SAMPLE MATERIAL	SAMPLE DESCRIPTION AREA OR LOCATION	AREA SAMPLED (INCHES) e.g., 12 x 12	LEAD MICROGRAM PER SQ. FT.	SAMPLE RPT LIMIT	Lab Sub Number	
815-W01	Wipe	Room 1 - Entry - Floor	12x24	<2.5	2.5	1	
815-W02	Wipe	Room 2 - Sitting Rm Floor	12x24	<2.5	2.5	2	
815-W03	Wipe	Room 2 - Window 1 - Trough	24x3.2	150.	9.4	3	✓
815-W04	Wipe	Room 3 - L. Room - Floor	12x24	<2.5	2.5	4	
815-W05	Wipe	Room 6 - Kitchen - Floor	12x24	<2.5	2.5	5	
815-W06	Wipe	Room 5 - Bath 1 - Floor	12x24	<2.5 MD	2.5	6	
815-W07	Wipe	Room 18 - Porch Side - Floor	12x24	130. 8/24/18	2.5	7	✓
815-W08	Wipe	Room 15 - Laundry - Floor	12x24	660.	2.5	8	✓
819-W09	Wipe	Room 7 - Dining - Sill	25x3.12	<9.2	9.2	9	
819-W10	Wipe	Room 10 - Bedroom 1 - Trough A	15"x3"	900.	16.	10	✓

Brand of alcohol-free wipes used: Ghost Wipes Lot#: _____

The Consumer Product Safety Commission has banned residential paint and other similar surface coating materials containing more than 0.06% lead.

DUST WIPE TEST RESULTS LIMITS

For HUD Grantees:
Interior Floors: < 10 µg/ft2 ; Porch Floors: < 40 µg/ft2 ; Window Sills: < 100 µg/ft2 ; Window Troughs: < 100 µg/ft2
Per Indiana Administrative Code 32:
Interior Floors: < 40 µg/ft2 ; Window Sills: < 250 µg/ft2 ; Window Troughs: < 400 µg/ft2

For questions, please contact: The Indiana Childhood Lead Poisoning Prevention Program @ 317-233-1250 or 1-800-761-1271 or The Indiana State Department of Health Laboratory @ 317-921-5500

Use of this form constitutes a contract between the submitter and the ISDH Laboratories. The Laboratory will test samples according to its EPA National Lead Laboratory Accreditation Program scope.

Please mail samples with this form to: **ISDH Environmental Lead Laboratory**
550 W 16th Street
Indianapolis, IN 46202

Custody Signature: Relinquished By: _____ Date/Time: 8/17/18 5:00pm
Custody Signature: Received By: _____ Date/Time: 8/20/18 11:00am

ISDH STUDY: 26635

INDIANA STATE DEPARTMENT OF HEALTH
ENVIRONMENTAL LEAD LABORATORY – DUST WIPE SUBMISSION

Your Contact Information		*Sampling Information*	
Organization: *	Amereco, Inc.	Date Sampled: *	8/16/18
Address (1):	54 Michigan Avenue	Property Address (1):*	815 Leland Ave
Address (2):		Property Address (2):	
City, Zip Code:	Valparaiso, 46383	City, Zip Code:	South Bend, 46616
Phone:	219.531.0531	Collected By:*	D. Unger
Email for Results:*	labresults@amerecoeng.com	Assessor License #:	IND001416
Email for Results:		Clearance:	Yes ○ No ✓

*Required Fields

Project # 18.3404

YOUR SAMPLE ID	SAMPLE MATERIAL	SAMPLE DESCRIPTION AREA OR LOCATION	AREA SAMPLED (INCHES) e.g., 12 x 12	LEAD MICROGRAM PER SQ. FT.	SAMPLE RPT LIMIT	Lab Sub Number
815-W11	Wipe	Room 10 - Bedroom 1 - Floor	12"x24"	<2.5	2.5	11
815-W12	Wipe	Room 12 - Bathroom - Floor	12"x24"	<2.5	2.5	12
815-W13	Wipe	Rom 13 - Bedroom 3 - Floor	12"X24"	<2.5	2.5	13
815-W14	Wipe	Room 13 - Bedroom 3 - Sill P	21.25 x 3.25	<10.	10.	14
815-W15	Wipe	Front Porch - Floor	12"x24"	110.	2.5	15 ✓
[illegible]	Wipe	[illegible]	[illegible]			
	Wipe					
	Wipe					
	Wipe					
	Wipe					

Brand of alcohol-free wipes used: Ghost Wipes Lot#: _____

The Consumer Product Safety Commission has banned residential paint and other similar surface coating materials containing more than 0.06% lead.

DUST WIPE TEST RESULTS LIMITS

For HUD Grantees:
Interior Floors: < 10 µg/ft2 ; Porch Floors: < 40 µg/ft2 ; Window Sills: < 100 µg/ft2 ; Window Troughs: < 100 µg/ft2
Per Indiana Administrative Code 32:
Interior Floors: < 40 µg/ft2 ; Window Sills: < 250 µg/ft2 ; Window Troughs: < 400 µg/ft2

For questions, please contact: The Indiana Childhood Lead Poisoning Prevention Program @ 317-233-1250 or 1-800-761-1271 or The Indiana State Department of Health Laboratory @ 317-921-5500

Use of this form constitutes a contract between the submitter and the ISDH Laboratories. The Laboratory will test samples according to its EPA National Lead Laboratory Accreditation Program scope.

Please mail samples with this form to: **ISDH Environmental Lead Laboratory**
550 W 16th Street
Indianapolis, IN 46202

Custody Signature: Relinquished By: _____ Date/Time: 8/17/18 / 5:00pm
Custody Signature: Received By: _____ Date/Time: 8/20/18 11:00am

Appendix B

Site and Floor Plan

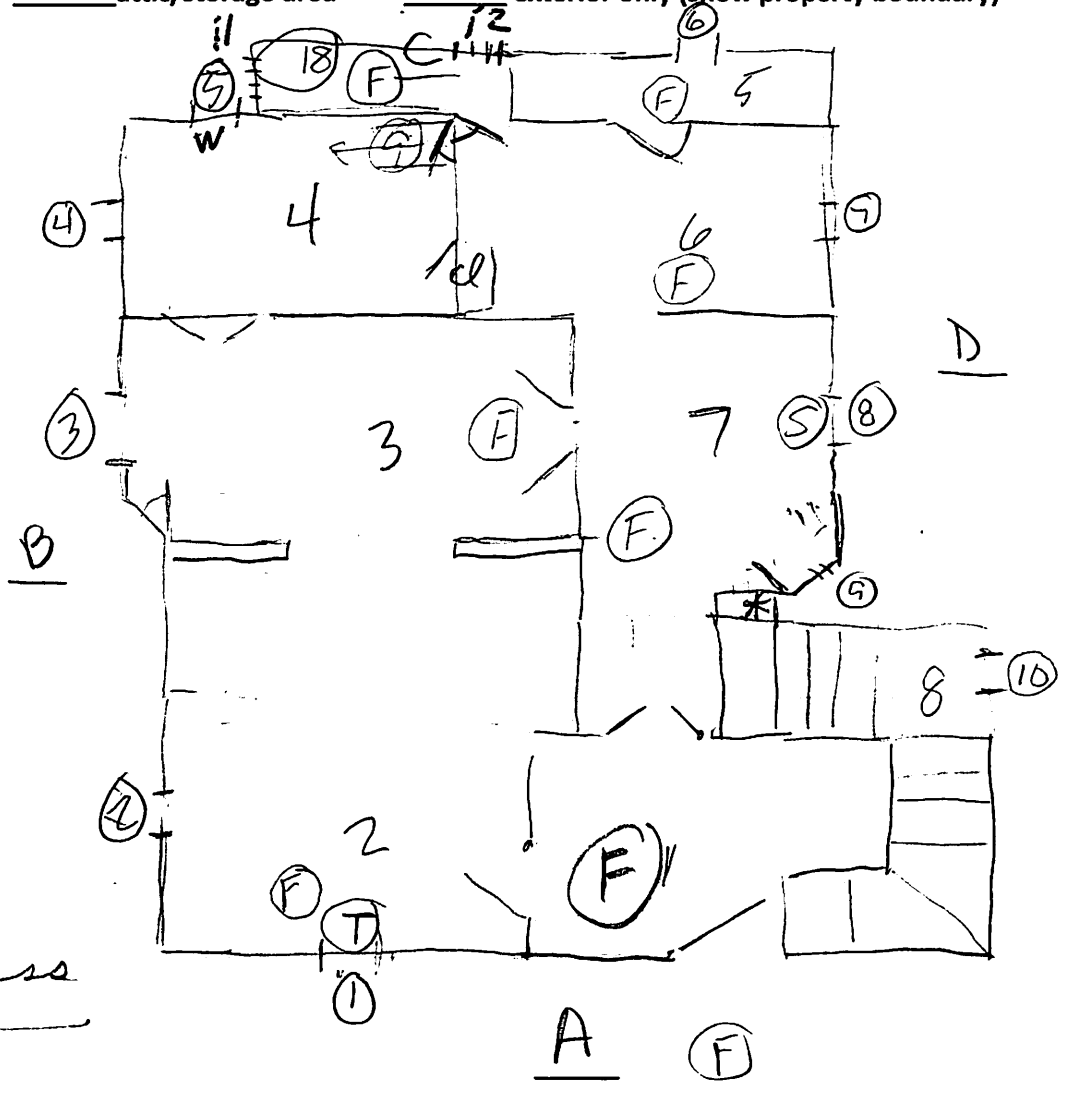
LEAD RISK ASSESSMENT SITE DESCRIPTION

Site 815 LELAND, S. BEND, IN. Date 8/16/18 Assessor D. Ungers

Area diagrammed: 1st floor _____ basement _____ attic/storage area _____ exterior only (show property boundary)

Room No. and Description

[1] ENTRY
[2] SITTING ROOM
[3] LIVING ROOM
[4] OFFICE
[5] BATHROOM
[6] KITCHEN
[7] DINING ROOM
[8] STAIRS (up)
[9] STAIRS (DOWN) BASEMENT
[*] under stair storage



Site Notes: all windows vinyl unless noted. #5 is wood. (IN0)

18 PORCH - SIDE C

W = wood

Amereco Engineering
54 Michigan Avenue, Valparaiso, IN 46383
www.AmerecoEng.com

SIDING

8.2 ft
3 ft
20 ft
18.3
5
12.2
23
23
4
8

GARAGE

15 ft A wall

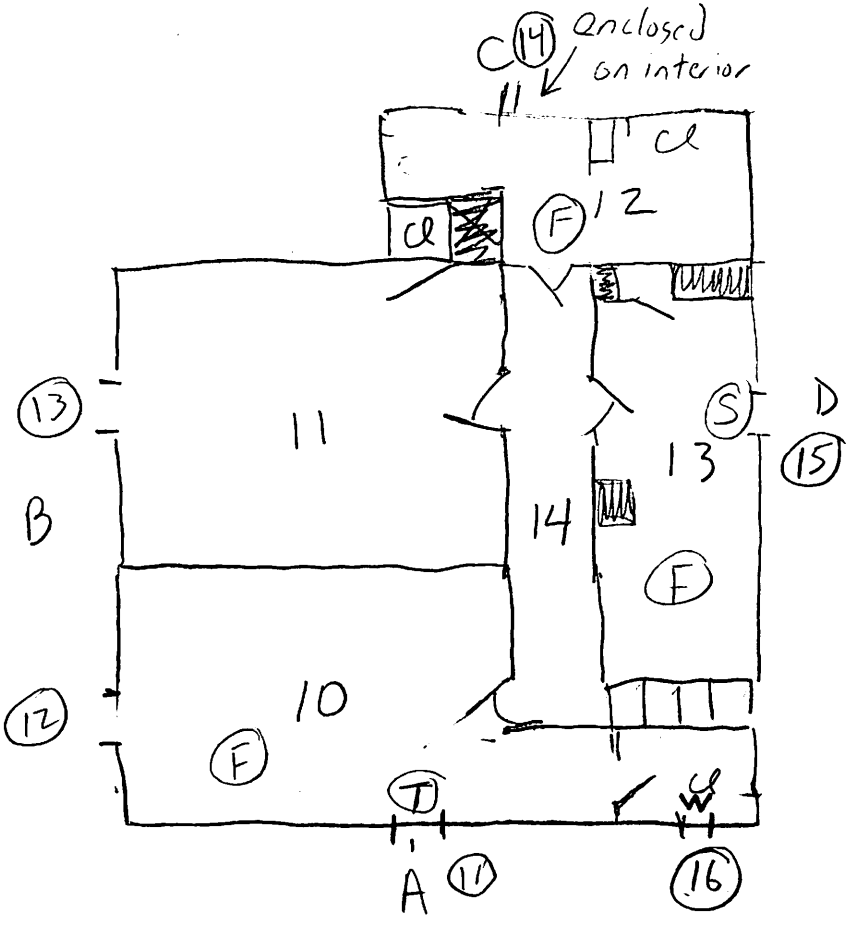
LEAD RISK ASSESSMENT SITE DESCRIPTION

Site 815 LeLand, S. Bend, In. **Date** 8/16/18 **Assessor** D. Vasek

Area diagrammed: 2 **floor** _____ **basement** _____ **attic/storage area** _____ **exterior only (show property boundary)**

Room No. and Description

[10] BEDROOM 1
[11] BedRoom 2
[12] BATHROOM 2
[13] BedRoom 3
[14] HALLWAY
[ ]
[ ]
[ ]
[ ]
[ ]



Site Notes: #15 window IND, blocked off

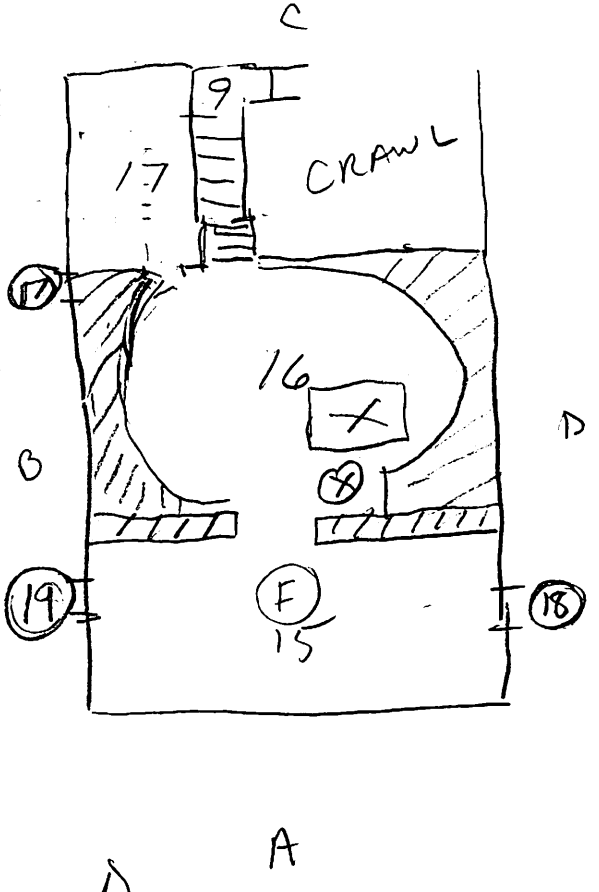
LEAD RISK ASSESSMENT SITE DESCRIPTION

Site 815 Leland St., S. Bend, In. Date 8/16/18 Assessor D. Ungen

Area diagrammed: _____ floor X basement _____ attic/storage area _____ exterior only (show property boundary)

Room No. and Description

[15] LAUNDRY
[16] UTILITY Room
[17] STORAGE
[9] STAIRS
[ ]
[ ]
[ ]
[ ]
[ ]
[ ]



Site Notes: all windows IND (Basement)

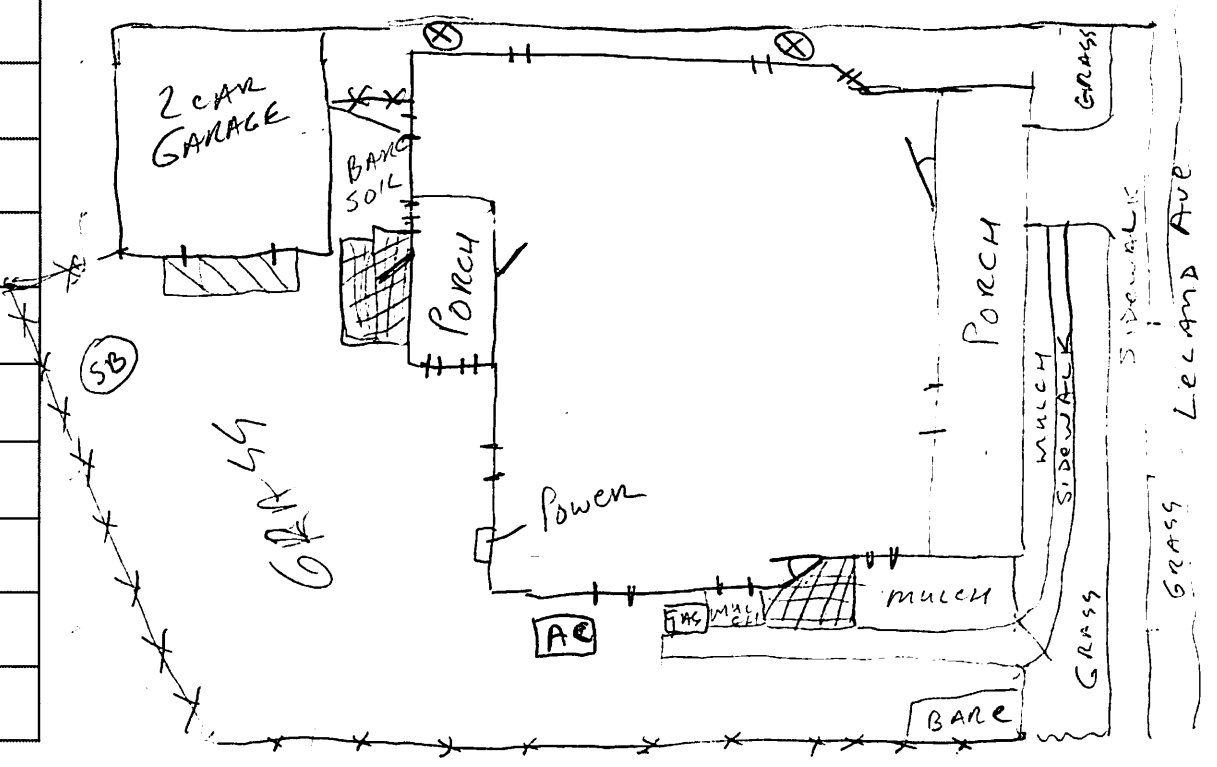
LEAD RISK ASSESSMENT SITE DESCRIPTION

Site 815 Leland Ave. **Date** 8/16/18 **Assessor** D. Ungen

Area diagrammed: _____ floor _____ basement _____ attic/storage area X exterior only (show property boundary)

Room No. and Description

[ ]
[ ]
[ ]
[ ]
[ ]
[ ]
[ ]
[ ]
[ ]
[ ]
[ ]



Site Notes: some bare soil present

SB - SAND BOX

- WOOD DECK

- CONCRETE

Fence not painted

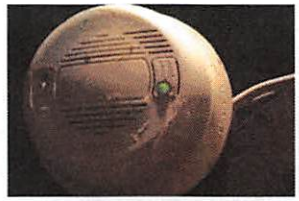
Amereco Engineering
54 Michigan Avenue, Valparaiso, IN 46383
www.AmerecoEng.com

Appendix C

Photographic Documentation


008.JPEG


010.JPEG


011.JPEG


013.JPEG


015.JPEG


016.JPEG


018.JPEG


020.JPEG


021.JPEG


022.JPEG


024.JPEG


025.JPEG


027.JPEG


030.JPEG


033.JPEG


034.JPEG


035.JPEG


036.JPEG


037.JPEG


038.JPEG


040.JPEG


041.JPEG


042.JPEG


043.JPEG


044.JPEG


045.JPEG


046.JPEG


047.JPEG


048.JPEG


049.JPEG


050.JPEG


051.JPEG


052.JPEG


053.JPEG


055.JPEG


056.JPEG


057.JPEG


059.JPEG


061.JPEG


062.JPEG


063.JPEG


064.JPEG


065.JPEG


066.JPEG


067.JPEG

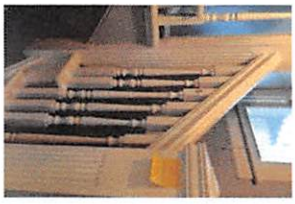

068.JPEG


069.JPEG


070.JPEG


071.JPEG


072.JPEG


073.JPEG


074.JPEG


075.JPEG


076.JPEG


077.JPEG


078.JPEG


079.JPEG


080.JPEG


081.JPEG


082.JPEG


083.JPEG


084.JPEG


085.JPEG


086.JPEG


087.JPEG


088.JPEG


089.JPEG


090.JPEG


091.JPEG


092.JPEG


093.JPEG


094.JPEG


095.JPEG


096.JPEG


097.JPEG


098.JPEG


099.JPEG


100.JPEG


101.JPEG


102.JPEG


103.JPEG


104.JPEG


105.JPEG


106.JPEG


107.JPEG


108.JPEG


109.JPEG


110.JPEG


111.JPEG


112.JPEG


113.JPEG


114.JPEG


115.JPEG


116.JPEG


117.JPEG


118.JPEG


119.JPEG


120.JPEG


121.JPEG


122.JPEG


123.JPEG


124.JPEG


125.JPEG


126.JPEG


127.JPEG


128.JPEG


129.JPEG


130.JPEG


131.JPEG


132.JPEG


133.JPEG


134.JPEG


135.JPEG


136.JPEG


137.JPEG


138.JPEG


139.JPEG

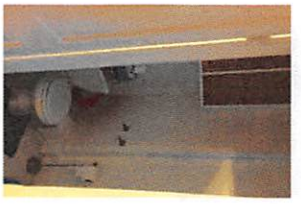

140.JPEG


141.JPEG


142.JPEG


143.JPEG


144.JPEG

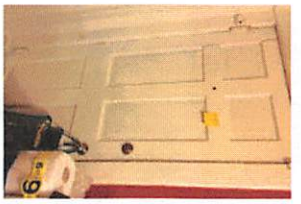

145.JPEG


146.JPEG

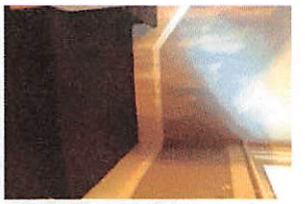

147.JPEG


148.JPEG


149.JPEG


150.JPEG


151.JPEG


152.JPEG


153.JPEG


154.JPEG

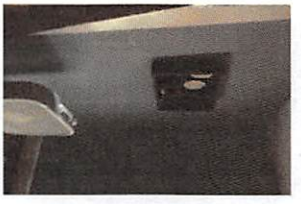

155.JPEG

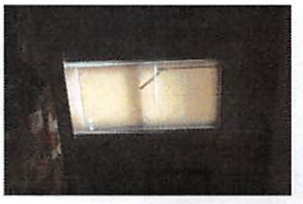

156.JPEG


157.JPEG


158.JPEG


159.JPEG


160.JPEG


161.JPEG


162.JPEG


163.JPEG


164.JPEG


165.JPEG


166.JPEG


167.JPEG


168.JPEG


169.JPEG

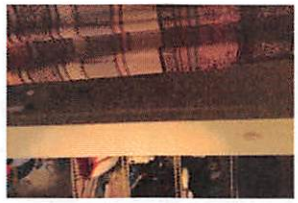

170.JPEG


171.JPEG

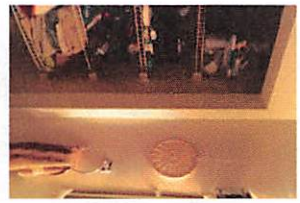

172.JPEG


173.JPEG

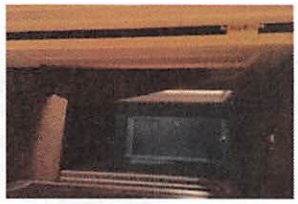

174.JPEG


175.JPEG


176.JPEG

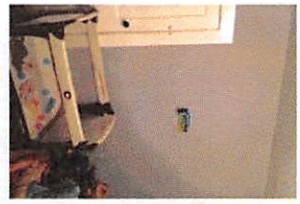

177.JPEG


178.JPEG


179.JPEG


180.JPEG


181.JPEG


182.JPEG


183.JPEG


184.JPEG


185.JPEG

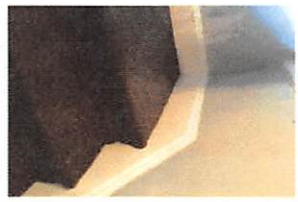

187.JPEG


188.JPEG


189.JPEG


190.JPEG


191.JPEG


192.JPEG


193.JPEG


IMG_2921


IMG_2922


IMG_2923


IMG_2924


IMG_2925

IMG_2926

IMG_2927

Appendix D

Risk Assessor License and Certification

NOTE: In this age of electronic alteration and reproduction, the lead-based paint professionals have chosen not to attach photocopies of their certification(s) or license(s).

Verification of current licensing can be found online at
http://mylicense.in.gov/everification

Appendix E

Firm's Lead Activity License/Certification

Not Applicable

Appendix F

XRF Training Certificate

and

Performance Characteristic Sheet

Certificate of Training

Has completed the Heuresis Corp. training materials presented on the topic of Instrument Operator Training, Pb200i, with regards to the materials licensed by the Commonwealth of Massachusetts and the Nuclear Regulatory Commission.

HEURESIS
CORPORATION

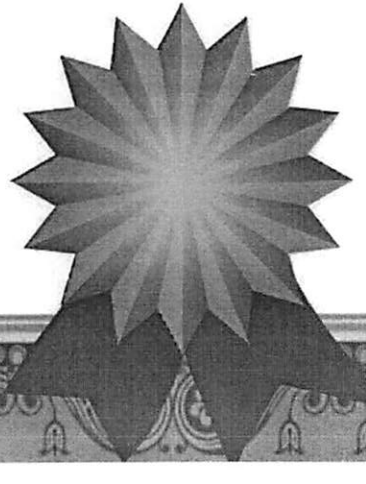
Instrument Operator Training
Heuresis Corporation, Pb200i

I confirm that the above named individual has received the training listed on this certificate.

Adam Robison
Name

May, 3rd, 2016
Date

Sales and Product Specialist
Title



I certify that I have received the stated training and understand the content presented. I understand that I can follow up this training with questions from Heuresis Corporation.

Devyn Unger
Name

May 3rd, 2016
Date

Certificate of Completion

This is to certify that

Devyn Unger

Has completed

US Regulations for Handheld XRF Analyzers with Radioactive Sealed Sources

9/11/2017

Supervisor signature

Erin Poitras, RSO Thermo Fisher Scientific
Portable Analytical Instruments

Certificate of Completion

This is to certify that

Devyn Unger

Has completed the

Sealed Source XRF - Radiation Safety

Online training course

On

9/11/2017

Supervisor signature

Erin Poitras, RSO Thermo Fisher Scientific
Portable Analytical Instruments

Performance Characteristic Sheet

EFFECTIVE DATE: **December 1, 2015**

MANUFACTURER AND MODEL:

Make: ***Heuresis***
Models: ***Model Pb200i***
Source: ***^{57}Co, 5 mCi (nominal – new source)***

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Action Level mode

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm^2 (inclusive)

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

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

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 November 2015, with two separate instruments running software version 2.1-2 in Action Level test mode. The actual source strength of each instrument on the day of testing was approximately 2.0 mCi; source ages were approximately one year.

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/cm^2 in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 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/cm^2 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/cm^2 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/cm^2. 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/cm^2 NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):
>
> Correction value = (1st + 2nd + 3rd + 4th + 5th + 6th *Reading*)/6 - 1.02 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 close to the Federal standard of 1.0 mg/cm^2. The table below shows the mean and standard deviation of actual reading times by reading level for paint samples during the November 2015 archive testing. The tested instruments reported readings to one decimal place. No significant differences in reading times by substrate were observed. These times apply only to instruments with the same source strength as those tested (2.0 mCi). Instruments with stronger sources will have shorter reading times and those with weaker sources, longer reading times, than those in the table.

Mean and Standard Deviation of Reading Times in Action Level Mode by Reading Level		
Reading (mg/cm^2)	**Mean Reading Time (seconds)**	**Standard Deviation (seconds)**
< 0.7	3.48	0.47
0.7	7.29	1.92
0.8	13.95	1.78
0.9 – 1.2	15.25	0.66
1.3 – 1.4	6.08	2.50
≥ 1.5	3.32	0.05

CLASSIFICATION OF RESULTS:

XRF results are classified as **positive** if they are **greater than or equal** to the stated threshold for the instrument (1.0 mg/cm^2), 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.

Appendix G

"LEAD SPEAK:" A Brief Glossary

Abatement: A measure or set of measures designed to permanently eliminate lead-based paint hazards or lead-based paint. Abatement strategies include the removal of lead-based paint, enclosure, encapsulation, replacement of building components coated with lead-based paint, removal of lead contaminated dust, and removal of lead contaminated soil or overlaying of soil with a durable covering such as asphalt (grass and sod are considered interim control measures). All of these strategies require preparation; cleanup; waste disposal; post-abatement clearance testing; recordkeeping; and, if applicable, monitoring. (For full EPA definition, see 40 CFR 745.223).

Bare soil: Soil not covered with grass, sod, some other similar vegetation, or paving, including the sand in sandboxes.

Chewable surface: An interior or exterior surface painted with lead-based paint that a young child can mouth or chew. A chewable surface is the same as an "accessible surface" as defined in 42 U.S.C. 4851b(2). Hard metal substrates and other materials that cannot be dented by the bite of a young child are not considered chewable.

Deteriorated paint: Any paint coating on a damaged or deteriorated surface or fixture, or any interior or exterior lead-based paint that is peeling, chipping, blistering, flaking, worn, chalking, alligatoring, cracking, or otherwise becoming separated from the substrate.

Dripline/foundation area: The area within 3 feet out from the building wall and surrounding the perimeter of a building.

Dust-lead hazard: Surface dust in residences that contains an area or mass concentration of lead equal to or in excess of the standard established by the EPA under Title IV of the Toxic Substances Control Act. EPA standards for dust-lead hazards, which are based on wipe samples, are published at 40 CFR 745.65(b); as of the publication of this edition of these *Guidelines,* these are 40 $\mu g/ft^2$ on floors and 250 $\mu g/ft^2$ on interior windowsills (also called lead-contaminated dust).

Friction surface: Any interior or exterior surface, such as a window or stair tread, subject to abrasion or friction.

Garden area: An area where plants are cultivated for human consumption or for decorative purposes.

Impact surface: An interior or exterior surface (such as surfaces on doors) subject to damage by repeated impact or contact.

Interim controls: A set of measures designed to temporarily reduce human exposure or possible exposure to lead-based paint hazards. Such measures include, but are not limited to, specialized cleaning, repairs, maintenance, painting, temporary containment, and the establishment and operation of management and resident education programs. Monitoring, conducted by owners, and reevaluations, conducted by professionals, are integral elements of interim control. Interim controls include dust removal; paint film stabilization; treatment of friction and impact surfaces; installation of soil coverings, such as grass or sod; and land use controls. Interim controls that disturb painted surfaces are renovation activities under EPA's Renovation, Repair and Painting Rule.

Lead-based paint: Any paint, varnish, shellac, or other coating that contains lead equal to or greater than 1.0 mg/cm^2 as measured by XRF or laboratory analysis, or 0.5 percent by weight (5000 mg/g, 5000 ppm, or 5000 mg/kg) as measured by laboratory analysis. (Local definitions may vary.)

Lead-based paint hazard: A condition in which exposure to lead from lead contaminated dust, lead contaminated soil, or deteriorated lead-based paint would have an adverse effect on human health (as established by the EPA at 40 CFR 745.65, under Title IV of the Toxic Substances Control Act). Lead-based paint hazards include, for example, **paint-lead hazards, dust-lead hazards,** and **soil-lead hazards.**

Paint-lead hazard: Lead-based paint on a friction surface that is subject to abrasion and where a dust-lead hazard is present on the nearest horizontal surface underneath the friction surface (e.g., the window sill, or floor); damaged or otherwise deteriorated lead-based paint on an impact surface that is caused by impact from a related building component; a chewable lead-based painted surface on which there is evidence of teeth marks; or any other deteriorated lead-based paint in any residential building or child-occupied facility or on the exterior of any residential building or child-occupied facility.

Play area: An area of frequent soil contact by children of under age 6 as indicated by, but not limited to, such factors including the following: the presence of outdoor play equipment (e.g., sandboxes, swing sets, and sliding boards), toys, or other children's possessions, observations of play patterns, or information provided by parents, residents, care givers, or property owners.

Soil-lead hazard: Bare soil on residential property that contains lead in excess of the standard established by the EPA under Title IV of the Toxic Substances Control Act. EPA standards for soil-lead hazards, published at 40 CFR 745.65(c), as of the publication of this edition of these *Guidelines*, is 400 µg/g in play areas and 1,200 µg/g in the rest of the yard (also called lead-contaminated soil).

Appendix H

Additional Lead and Lead Safety Resource Data

Key Units of Measurement

Gram (g or gm): A unit of mass in the metric system. A nickel weighs about 1 gram, as does a single cube of water 1 centimeter on each side. A gram is equal to about 35/1000 (thirty-five thousandths of an ounce.) Another way to think of this is that about 28.4 grams equal 1 ounce.

µg (microgram): A microgram is 1/1000th of a milligram. To put this into perspective, a penny weighs 2 grams. To get a microgram, you would need to divide the penny into 2 million equally-sized pieces. A microgram is one of those two million pieces.

µg/dL (microgram per deciliter): used to measure the level of lead in children's and worker's blood to establish whether intervention is needed. A deciliter is a little less than a half of a cup.

µg/ft^2 (micrograms per square feet): the unit used to express levels of lead in dust samples. All reports should report levels of lead in dust in µg/ft^2.

mg/cm^2 (milligrams per square centimeter): used to report levels of lead in paint through XRF testing.

ppm (parts per million): Typically used to express the concentrations of lead in soil. Can also be used to express the amount of lead in a surface coating on a mass concentration basis. This measurement can also be shown as µg/g, mg/kg, or mg/l.

ppb (parts per billion): Typically used to express the amount of lead found in drinking water. This measurement is also sometimes expressed as µg/L (micrograms per liter.)

Program Specific Lead-Based Paint and Lead-Based Paint Hazard Standards

Lead-Based Paint (may be determined in either of two ways)

• Surface concentration (mass of lead per area)	1.0 µg/cm^3
• Bulk concentration (mass of lead per volume)	0.5%, 5000 µg/g, or 5000 ppm

Dust-thresholds for Lead-Contamination

• Floors	10 µg/ft^2
• Interior Window Sills	100 µg/ft^2
• Window Troughs	100 µg/ft^2
• Porch Floors	40 µg/ft^2

Soil-thresholds for Lead Contamination

• Play areas used by children under age 6	400 µg/g, or 400 ppm
• Other areas	1200 µg/g, or 1200 ppm

Appendix I

Resources for additional information on lead-based paint and lead-based paint hazards

National Lead information Center & Clearinghouse:
1-800-424 LEAD
www.epa.gov/lead/pubs/nlic.htm

Centers for Disease Control and Prevention Lead Program:
www.cdc.gov/lead
Toll-free CDC Contact Center: 800-CDC-INFO; TTY 888-232-6348

CONSUMER PRODUCT SAFETY COMMISSION
www.cpsc.gov
Toll-free consumer hotline: 1-800-638-2772; TTY 301-595-7054

Environmental Protection Agency Lead Program:
www.epa.gov/lead
202-566-0500

HUD OFFICE OF HEALTHY HOMES AND LEAD HAZARD CONTROL:
www.hud.gov/offices/lead
202-402-7698

Indiana Department of Health, Lead Poisoning Prevention Program
http://www.in.gov/isdh/19124.htm

Hearing- or speech-challenged individuals may access the federal agency numbers above through TTY by calling the toll-free Federal Relay Service at 800-877-8339; see also http://www.federalrelay.us/tty.

Appendix J

Homeowner/Occupant Documentation

LEAD RISK ASSESSMENT PERMISSION AGREEMENT

I, Emily Dean (printed name), have requested a lead risk assessment for my residence / property (circle one or both, as applicable) located at:

Street Address: 815 Leland Ave.

Apartment No.:

City/State/Zip: South Bend, IN, 46616

Telephone No.: 856.904.4485

The owner of record for this property is:

Name(s): Julian Dean

Birthdate(s): 12/1/1983

(Complete the following if it is different from the above. Otherwise, indicate "same.")

Street Address:

Apartment No.:

City/State/Zip:

Telephone No.:

I consent to the assessment of my dwelling for lead. I assume responsibility for the minor damage that may occur incidental to this assessment activity. I understand that I will receive a copy of the completed assessment and that I will not be obligated to fulfill any recommendations made.

Emily Dean
Signature

8/16/18
Date

J Dean

AMERECO ENGINEERING
54 Michigan Avenue, Valparaiso, IN 46383
(219) 531-0531

LEAD HAZARD RISK ASSESSMENT FOR HUD PROGRAMS **INITIAL CONTACT INTERVIEW QUESTIONNAIRE**

SITE ADDRESS 815 Leland Avenue **ASSESSOR** D. Unger

NAME OF OWNER/TENANT INTERVIEWED Emily and Julian Dean **DATE** 8/15/18

Occupant Information

Name of Owner Julian Dean
(If different than Occupant)

Owner's Address _____
(If different from Site Address)

City/State/Zip _____

Telephone 609. 231. 5579
(Owner's Phone)

Year of Construction of Residence 1901 (check at site)

Any Previous Lead Inspections/Risk Assessments done? ☐ Yes ☒ No

Names of Occupants	Dates of Birth
Emily Dean	8/5/1980
Declan Dean	8/24/2016
Finn Dean	7/26/2014

Family Information

List the ages of any children under the age of 6 who reside here or visit regularly:

	Child 1	Child 2	Child 3	Child 4	Child 5
Birthdates	~~Finn Dean~~ 7/26/2014	~~Declan Dean~~ 8/24/2016			
Blood Lead Level	[redacted]	[redacted]			
Month/Year of Blood level Test	May 2018	May 2018			
Location of Child's Bedroom	upstairs	upstairs			
Primary Room Where Child Eats	dining room	dining room			
Primary Interior Play Area(s)	the whole downstairs				
Primary Room Where Toys Are Stored	living rooms				
Primary Exterior Play Area(s)	the back yard				
Observed Chewed Surfaces, Where	none				
If Multiple Unit, Common Areas Child Uses					

Do women of childbearing age live in the home? ☒ Yes ☐ No

Do you have pets? ☐ Yes ☒ No If Yes, do these pets go outdoors? ☐ Yes ☐ No

Other Household Information and Family Use Patterns

Most Frequently Used Entrances	the front and side doors
Other Entrances Used	
Most Frequently Opened Windows	bedrooms, dining room, TV room
Structure Cooling Method, Specify: Window Air Conditioner/Central Air/Fan	Central Air, ceiling fans, box fans
Location of Window Air Conditioners	
Gardening: Type and Location	flower gardening in beds near home
Plans to Remove Grass or Ground Covering: If Yes, Where?	
Areas of the Home That Get Cleaned Regularly	the whole downstairs, kitchen, bathrooms
Areas That Do Not Get Cleaned Regularly	upstairs hallway, bedrooms, stairwell, office, basement
Cleaning Methods Used	wet mop, broom, wet dust, vaccum
Resident(s) With Work-Related Lead Exposure: Yes/No	no
If Yes, Are Dirty Work Clothes Brought Home: Yes/No	
If Yes, Who Handles Them And Where Are They Placed and Cleaned	

Building Renovations

Renovations/Repainting Within Last: What Work Was Done and When	the dining room was painted-no scraping, sanding
List Family Belongings/Furnishings Present in the Work Area and Where They Were	dining table, toy shelves, side table.
List What, Where, and How Construction Debris Was Stored in the Yard	no debris

Building Conditions Survey **(TO BE COMPLETED BY THE RISK ASSESSOR)**

Date of Construction	1902
Apparent Use of the Building: Residential/Daycare/Commercial/Other	Residential
Setting: Urban/Rural/Industrial/Other	Urban
Front Entry Faces: North/South/East/West	East
Design: Ranch/Bi-Level/Tri-Level/Cape Cod/Other	Two-Story with Basement
Construction Type: Stick Built/Modular/Balloon Frame/Other	Stick-Built
Lot Type	Residential
Roof: Asphalt/Built-Up Roofing/Steel/Other	Asphault
Foundation: Concrete/Block/Brick/Slab/Other	Brick
Front Lawn Condition: Fair or Poor, List Bare Soil	Fair
Back Lawn Condition: Fair or Poor, List Bare Soil	Fair - Bare soil in Sand Box
Drip Line Condition: Fair or Poor, List Bare Soil	Poor - Bare soil on sides A, B, C & D
Site Evaluation: Good/Poor/Fair/List Concerns	Fair
Exterior Structural Condition: Good/Fair/Poor, List Damage	Fair
Interior Structural Condition: Good/Fair/Poor, List Damage	Fair
Overall Building/Site Condition: Good/Fair/Poor	Fair

Appendix K

Visual Assessment Survey

LBP Visual Assessment Recording Checklist

Site: 815 Leland Ave. South Bend, IN Risk Assessor: Devyn Unger

Date: 8/16/18

Room: 1- Entry

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sill		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Jamb	All	(Y) / N	M / S / F / (I) / H / O	F / (I) / NA	Y / (N)	(Pos) / Neg	Sides A, B & C
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

Room: 2- Sitting Room

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	No LBP Hazards Identified
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sill		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

[1] Causes of Deterioration: M = Moisture, S = Substrate Failure, F = Friction, I = Impact, H = Heat, O = Other

[2] Friction or Impact Surface: F = Friction, I = Impact, NA = Not Applicable

[3] For Actual XRF Results, See Full XRF Report

LBP Visual Assessment Recording Checklist

Site: _____ Risk Assessor: _____

Date: _____

Room: 3- Living Room

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sill		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door	1 Each	(Y) / N	M / S / F / I / H / (O)	F / I / (NA)	Y / (N)	(Pos) / Neg	Side B - Exterior Door
Door Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Jamb	1 Each	(Y) / N	M / S / F / I / H / (O)	F / (I) / NA	Y / (N)	(Pos) / Neg	Side B - Exterior Door
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

Room: 4- Office

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Casing	All	(Y) / N	M / S / F / I / H / (O)	F / I / (NA)	Y / (N)	(Pos) / Neg	Sides B & C
Window Sill	1 Each	(Y) / N	M / S / F / I / H / O	F / I / (NA)	Y / (N)	(Pos) / Neg	Side B
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard	All	(Y) / N	M / S / F / (I) / H / O	F / (I) / NA	Y / (N)	(Pos) / Neg	
Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

[1] Causes of Deterioration: M = Moisture, S = Substrate Failure, F = Friction, I = Impact, H = Heat, O = Other

[2] Friction or Impact Surface: F = Friction, I = Impact, NA = Not Applicable

[3] For Actual XRF Results, See Full XRF Report

LBP Visual Assessment Recording Checklist

Site: 815 Leland Ave. South Bend, IN Risk Assessor: Devyn Unger

Date: 8/16/18

Room: 5- Bathroom

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	No LBP Hazards
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	Identified
Window Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sill		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

Room: 6- Kitchen

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sill		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Casing	2 Each	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	Sides B+C
Door Jamb	All	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	Sides A, B+C
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard	All	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

[1] Causes of Deterioration: M = Moisture, S = Substrate Failure, F = Friction, I = Impact, H = Heat, O = Other

[2] Friction or Impact Surface: F = Friction, I = Impact, NA = Not Applicable

[3] For Actual XRF Results, See Full XRF Report

LBP Visual Assessment Recording Checklist

Site: _____ Risk Assessor: _____

Date: _____

Room: 7- Dining Room

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sill		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb	Each Side	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	Sides A+C
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door	Side A-1 Each	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	Closet Door - under Stairs
Door Casing	2 Each	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	Sides B+C
Door Jamb	2 Each	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	Sides A+C
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Floor	15SF	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	Inside Closet under stairs
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

Room: 8- Stairs Cup)

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sill		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Crown Molding	All	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Newel Post's	All	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Stair stringer	All	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

[1] Causes of Deterioration: M = Moisture, S = Substrate Failure, F = Friction, I = Impact, H = Heat, O = Other

[2] Friction or Impact Surface: F = Friction, I = Impact, NA = Not Applicable

[3] For Actual XRF Results, See Full XRF Report

LBP Visual Assessment Recording Checklist

Site: 815 Leland Ave. South Bend, IN Risk Assessor: Peryn Unger

Date: 8/16/18

Room: 9-Stairs (Down)

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls	Side B	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Casing	All-3 Each	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	Windows 11, 12 & 16
Window Sill	1 Each	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	Window 16
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door	Side D	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	Closet
Door Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Jamb	All-2 Each	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Floor Joist	Side D	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

Room: 10 - Bedroom 1

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls	Side B	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Casing	All-3 Each	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	Windows 11, 12 & 16
Window Sill	1 Each	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	Closet - 16
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door	Side D	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	Closet
Door Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Jamb	All-2 Each	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard	All	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Knob	1 Each	Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	Side B - Closet
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

[1] Causes of Deterioration: M = Moisture, S = Substrate Failure, F = Friction, I = Impact, H = Heat, O = Other

[2] Friction or Impact Surface: F = Friction, I = Impact, NA = Not Applicable

[3] For Actual XRF Results, See Full XRF Report

LBP Visual Assessment Recording Checklist

Site: _____ Risk Assessor: _____

Date: _____

Room: 11- Bedroom 2

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Casing	Side B-1	(Y) / N	M / S / F / I / H / (O)	F / I / (NA)	Y / (N)	(Pos) / Neg	13
Window Sill	Side B-1	(Y) / N	M / S / F / I / H / (O)	F / I / (NA)	Y / (N)	(Pos) / Neg	13
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Jamb	Side D-1	(Y) / N	M / S / F / (I) / H / O	F / (I) / NA	Y / (N)	(Pos) / Neg	
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard	#11	(Y) / N	M / S / F / (I) / H / O	F / I / (NA)	Y / (N)	(Pos) / Neg	
Floor	15SF	(Y) / N	M / S / F / I / H / (O)	F / I / (NA)	Y / (N)	(Pos) / Neg	Closet
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

Room: 12- Bathroom 2

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sill		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Jamb	Side A	(Y) / N	M / S / F / I / H / (O)	F / (I) / NA	Y / (N)	(Pos) / Neg	
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

[1] Causes of Deterioration: M = Moisture, S = Substrate Failure, F = Friction, I = Impact, H = Heat, O = Other

[2] Friction or Impact Surface: F = Friction, I = Impact, NA = Not Applicable

[3] For Actual XRF Results, See Full XRF Report

LBP Visual Assessment Recording Checklist

Site: 815-Leland Ave, South Bend, IN Risk Assessor: Dewyn Unger

Date: 8/16/16

Room: 13- Bedroom 3

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sill		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door	1 Each	(Y) / N	M / S / F / I / H / (O)	F / I / (NA)	Y / (N)	(Pos) / Neg	Side B
Door Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Jamb	2 Each	(Y) / N	M / S / F / (I) / H / O	F / (I) / NA	Y / (N)	(Pos) / Neg	Sides B & C
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

Room: 14- Hallway

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sill		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door	3 Each	(Y) / N	M / S / F / I / H / (O)	F / I / (NA)	Y / (N)	(Pos) / Neg	Ceiling (Attic) B & D
Door Casing	3 Each	(Y) / N	M / S / F / I / H / (O)	F / I / (NA)	Y / (N)	(Pos) / Neg	Ceiling (Attic)
Door Jamb	4 Each - All	(Y) / N	M / S / F / (I) / H / O	F / (I) / NA	Y / (N)	(Pos) / Neg	
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard	All	(Y) / N	M / S / F / (I) / H / O	F / (I) / NA	Y / (N)	(Pos) / Neg	
Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

[1] Causes of Deterioration: M = Moisture, S = Substrate Failure, F = Friction, I = Impact, H = Heat, O = Other

[2] Friction or Impact Surface: F = Friction, I = Impact, NA = Not Applicable

[3] For Actual XRF Results, See Full XRF Report

LBP Visual Assessment Recording Checklist

Site: _____ Risk Assessor: _____

Date: _____

Room: 15 - Laundry

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	No LBP Hazards Identified
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sill		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

Room: 16 - Utility Room

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	No LBP Hazards Identified
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sill		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

[1] Causes of Deterioration: M = Moisture, S = Substrate Failure, F = Friction, I = Impact, H = Heat, O = Other

[2] Friction or Impact Surface: F = Friction, I = Impact, NA = Not Applicable

[3] For Actual XRF Results, See Full XRF Report

LBP Visual Assessment Recording Checklist

Site: 815- Leland Avenue

Risk Assessor: Devyn Unger

Date: 8/16/18

Room: 17- Storage

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	No LBP Hazards
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	Identified
Window Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sill		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

Room: 18- Porch - Side C

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sill		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Siding	30SF	Y (N)	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	Sides A + D
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

[1] Causes of Deterioration: M = Moisture, S = Substrate Failure, F = Friction, I = Impact, H = Heat, O = Other

[2] Friction or Impact Surface: F = Friction, I = Impact, NA = Not Applicable

[3] For Actual XRF Results, See Full XRF Report

LBP Visual Assessment Recording Checklist

Site: _____ Risk Assessor: _____

Date: _____

Room: _____

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sill		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

Room: _____

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sill		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Jamb		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Baseboard		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

[1] Causes of Deterioration: M = Moisture, S = Substrate Failure, F = Friction, I = Impact, H = Heat, O = Other

[2] Friction or Impact Surface: F = Friction, I = Impact, NA = Not Applicable

[3] For Actual XRF Results, See Full XRF Report

LBP Visual Assessment Recording Checklist

Site: 815 Leland Ave. South Bend IN Risk Assessor: Devyn Unger

Date: 8/16/18

Room: Exterior - House

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Siding	All	Y / (N)	(M) / S / F / I / H / O	F / I / (NA)	Y / (N)	(Pos) / Neg	
Soffit	All	(Y) / N	(M) / S / F / I / H / O	F / I / (NA)	Y / (N)	(Pos) / Neg	
Fascia	All	(Y) / N	(M) / S / F / I / H / O	F / I / (NA)	Y / (N)	(Pos) / Neg	
Porch Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Porch Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Porch Railing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Post		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Beam		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Corner Trim	All	Y / (N)	M / S / F / I / H / (O)	F / I / NA	Y / (N)	(Pos) / Neg	
Window Casing	All	Y / (N)	(M) / S / F / I / H / O	F / I / (NA)	Y / (N)	(Pos) / Neg	All Sides
Window Sill		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Sash	1 Each	(Y) / N	M / S / F / I / H / (O)	F / I / (NA)	Y / (N)	(Pos) / Neg	Window 5
Lintel		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Casing	2 Each	(Y) / N	(M) / S / F / I / H / O	F / I / (NA)	Y / (N)	(Pos) / Neg	Sides A & B
Door	1 Each	Y / (N)	(M) / S / F / I / H / O	F / I / (NA)	Y / (N)	(Pos) / Neg	Side B
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Basement Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Crown Molding	All	(Y) / N	M / S / F / I / H / (O)	F / I / (NA)	Y / (N)	(Pos) / Neg	
Door Jamb	2 Each	Y / (N)	M / S / F / (I) / H / O	F / (I) / NA	Y / (N)	(Pos) / Neg	Sides A & B

Room: Exterior - Garage

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Siding	All	Y / (N)	(M) / S / F / I / H / O	F / I / (NA)	Y / (N)	(Pos) / Neg	
Soffit	All	Y / (N)	(M) / S / F / I / H / O	F / I / (NA)	Y / (N)	(Pos) / Neg	
Fascia	All	Y / (N)	(M) / S / F / I / H / O	F / I / (NA)	Y / (N)	(Pos) / Neg	
Porch Ceiling		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Porch Floor		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Porch Railing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Post		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Beam		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Trim		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Window Casing	1 Each	(Y) / N	(M) / S / F / I / H / O	F / I / (NA)	Y / (N)	(Pos) / Neg	Side D
Window Sill	1 Each	(Y) / N	(M) / S / F / I / H / O	F / I / (NA)	Y / (N)	(Pos) / Neg	Side C
Window Sash	1 Each	(Y) / N	(M) / S / F / I / H / O	F / I / (NA)	Y / (N)	(Pos) / Neg	Side C
Lintel		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Casing		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Door Threshold		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
Basement Sash		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I / H / O	F / I / NA	Y / N	Pos / Neg	

[1] Causes of Deterioration: M = Moisture, S = Substrate Failure, F = Friction, I = Impact, H = Heat, O = Other

[2] Friction or Impact Surface: F = Friction, I = Impact, NA = Not Applicable

[3] For Actual XRF Results, See Full XRF Report

LBP Visual Assessment Recording Checklist

Site: _____ Risk Assessor: _____

Date: _____

Room: _____

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Ceiling		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Window Casing		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Window Sill		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Window Sash		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Door		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Door Casing		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Door Jamb		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Door Threshold		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Baseboard		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Floor		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Stair Tread		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Stair Toe Kick		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Stair Stringer		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Railing		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	

Room: _____

Building Component	Area of Deteriorated Paint	Is Area Small?	Cause(s) of Deterioration[1]	Friction or Impact Surface[2]	Visible Teeth Marks	XRF Result[3]	Notes
Walls		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Ceiling		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Window Casing		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Window Sill		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Window Sash		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Window Jamb		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Window Trough		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Door		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Door Casing		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Door Jamb		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Door Threshold		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Baseboard		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Floor		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Stair Tread		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Stair Toe Kick		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Stair Stringer		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
Railing		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	
		Y / N	M / S / F / I/H/O	F / I / NA	Y / N	Pos / Neg	

[1] Causes of Deterioration: M = Moisture, S = Substrate Failure, F = Friction, I = Impact, H = Heat, O = Other

[2] Friction or Impact Surface: F = Friction, I = Impact, NA = Not Applicable

[3] For Actual XRF Results, See Full XRF Report

Appendix L

Health & Safety Evaluation

Health & Safety Evaluation Project #: 18.3404 Date of Site Visit 8/16/18

Property Address: 815 LELAND ST, S. BEND, IN.

Structural Concerns

Foundation	Yes	No	NA	Notes
Cracking / Fissuring	X			Side B
Settling Evident	X			Side B
Imminent Collapse		X		
Significant Sloping / Unlevel		X		
Evidence of Inadequency		X		
Other:				

Flooring & Stairwells	Yes	No	NA	Notes
Weak Spots		X		
Shifting		X		
Loose / Missing Treads		X		
Other:		X		

Moisture Concerns

Gutters	Yes	No	NA	Notes
Present / Attached / Sealed	X			
Downspouts OK	X			
Splash Block / Drain Condition OK	X			
Free of Clogs / Maintained		X		need cleaning

Foundation	Yes	No	NA	Notes
Occupant Reported / Visible Leaks		X		
Seepage		X		

Doors / Windows	Yes	No	NA	Notes
Significant Moisture Intrusion		X		

Roof	Yes	No	NA	Notes
Active Roof Leak		X		
Leaks Around Chimney		X		
Roof in Poor Condition - Leak Imminent		X		

Other Health & Safety Concerns

Fire Protection	Yes	No	NA	Notes
Smoke Detectors Present / Operational	X			in all bedrooms
Blocked Access		X		
Apparent Fire Hazards		X		

Mechanical, Electrical & Plumbing	Yes	No	NA	Notes
Carbon Monoxide Detector Present		X		
Furnace Present	X			
Furnace Appear Operational	X			
Evident Electrical Hazards (i.e. Bare Wire)		X		
Evident Plumbing Hazards (i.e. Sewage Leak)		X		

List Other Evident Health & Safety Concerns	Yes	No	NA	Notes
Other:				
Other:				

FORM COMPLETED BY: M. Chenoweth