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February 27, 2023  
Laura Bedlan  
Fairbury Flood Buyout Program  
204 W 3<sup>rd</sup> St.  
Fairbury, Ne 68352

RE: Results of lead screen testing on 02/10/2023.

Laura,

I am enclosing the results of the lead-based paint screen testing conducted on 02/10/2023. The paint chip composite samples taken from the property have **failed** the clearance test and were found to be **above the regulatory limits**. The clearance levels set by U.S. Department of Housing and Urban Development (HUD) are 10 micrograms ( $\mu\text{g}$ ) of lead in dust per square foot ( $\mu\text{g}/\text{ft}^2$ ) for floor dust and 100  $\mu\text{g}/\text{ft}^2$  for window sill dust, and 5,000 pb ( $\mu\text{g}/\text{g}$ ) ppm for paint chip samples.

The floor composite samples collected from the property were found to be at 4.17  $\mu\text{g}/(\text{ft}^2)$ , and the window sill composite samples were measured at 19.8  $\mu\text{g}/(\text{ft}^2)$ , which are both below the permissible limit. However, the lead-based paint chip samples collected from throughout the house interior and exterior were found to be above the limit at 61,000 pb ( $\mu\text{g}/\text{g}$ ) ppm.

Please forward or share this information with the property owner and let me know if you have any questions regarding the results.

Best Regards,

*Cole Hartgerink*

Cole Hartgerink  
SENDD

**Lead Hazard Screen**  
**City of Fairbury**  
**Fairbury Flood Buyout Program**  
March 1st, 2023

Prepared for: City of Fairbury / Homeowner: David & Megan Tracy

Project ID: 19FB0014LBP

Property Address: 204 W 3<sup>rd</sup> St. Fairbury Ne, 68352

Phone: N/A

Date of Screen: February 10th, 2023

Year Built: 1900

Name of Inspector: Cole Hartgerink

State License No.: 342

Certified Firm: Southeast Nebraska Development District  
Address: 7407 O St.  
Lincoln, NE 68510  
Phone: (402) 475-2560

Certified Lab: Environmental Hazards Services, LLC  
Address: 7469 White Pine Road  
Richmond, VA 23237  
Phone: (800) 347-4010

Results: **Failed** (see attached summary)

Signature: *Cole Hartgerink*  
Cole Hartgerink

## Summary of Findings

### Background Information

The property is located in a flood plain and is potentially being bought by the City to demolish the building. The lead screen test was conducted as a condition of the program.

### Hazard Reduction

None at this time.

### Visual Assessment

A visual assessment of the structure on February 10th, 2023, indicated that there were areas of deteriorated paint, visible dust, debris, residue, or paint chips around the exterior or interior of the property.

### Dust Samples

Individual dust wipe samples were collected from floors and interior window sills. The wipe composite floor and sill samples contained lead-in-dust below the allowable limits. **However, the paint chip samples came back above the allowable limits.** Therefore, the unit **failed** the screening examination. See Field Sampling Form for Dust for the results of all dust samples. Copies of the Wipe Lead Analysis Summary are attached.

### Soil Samples

No soil samples were taken.

### Corrective Action

The US EPA has stated that solid architectural components coated with LBP are less likely to be hazardous because of the small ratio of lead paint to total waste mass. The US Army conducted a study which concluded that whole-building demolition debris is not likely to exceed the toxicity characteristic standard for lead if it is handled as a single, whole waste stream and disposed of all together. Whole-building demolition debris is therefore considered a non-hazardous waste with regard to lead. This has been verified with Douglas Gillespie from DHHS for the state of Nebraska.

### Field Sampling Form for Dust

Project ID: 19FB0014LBP

Date: 02/10/2023

Name of Risk Assessor: Cole Hartgerink

Property Address: 204 W 3<sup>rd</sup> St. Fairbury Ne, 68352

Dwelling Selection Protocol:  All Dwellings  Targeted  Worst Case  Random

Target Dwelling Criteria (check all that apply):

- Code violations
- Judged to be in poor condition
- Presence of two or more children between ages of six months and six years
- Serves as day-care facility
- Recently prepared for re-occupancy
- Owner Occupied Housing Rehabilitation Program

Sample No.	Room (record name of room used by the owner or resident)	Surface type (floor, sill, or trough)	Is surface smooth and cleanable?	Dimensions of sample area (inches x inches)	Area (ft <sup>2</sup> ) (In <sup>2</sup> /144)	Result of lab analysis (ug/ft <sup>2</sup> )
1 Composite	Living Room, Master Bedroom, Girl's bedroom	Sill	Yes	<div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;">1 x 20 = 20 (in<sup>2</sup>)</div> <div style="display: flex; align-items: center;">1.5 x 25 = 37.5 (in<sup>2</sup>)</div> <div style="display: flex; align-items: center;">1.25 x 27 = 33.75 (in<sup>2</sup>)</div> <div style="display: flex; align-items: center;">Total = 91.25 (in<sup>2</sup>)</div> </div>	.63 (ft <sup>2</sup> )	19.8 ug/ft <sup>2</sup>
2 Composite	Living Room, Master Bedroom, Girl's bedroom	Floor	Yes	<div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;">12 x 12 = 144 (in<sup>2</sup>)</div> <div style="display: flex; align-items: center;">12 x 12 = 144 (in<sup>2</sup>)</div> <div style="display: flex; align-items: center;">12 x 12 = 144 (in<sup>2</sup>)</div> <div style="display: flex; align-items: center;">Total = 432 (in<sup>2</sup>)</div> </div>	3 (ft <sup>2</sup> )	4.17 ug/ft <sup>2</sup>

<sup>1</sup> Measure to the nearest 1/8th or 1/10th of an inch. [1/8 = 0.125, 2/8 = 0.25, 3/8 = 0.375, 4/8 = 0.5, 5/8 = 0.625, 6/8 = 0.75, 7/8 = 0.875]

<sup>2</sup> Calculate sample area in square feet as follows: Calculate square inches for each surface sampled, add together, then divide total by 144.

<sup>3</sup> Provide areas, direct laboratory to report the dust lead result in µg/ft<sup>2</sup>.

NOTE: EPA standards: 10 µg/ft<sup>2</sup> (interior floors); 100 µg/ft<sup>2</sup> (interior window sills) for Risk Assessment; See Chain of Custody for dates of collection and shipping details.

**Form 5.4  
Field Sampling Form for Paint**

Project ID: 19FB0014LBP

Date: 02/10/2023

Name of Risk Assessor: Cole Hartgerink

Property Address: 204 W 3<sup>rd</sup> St. Fairbury Ne, 68352

Dwelling Selection Protocol:  All Dwellings  Targeted  Worst Case  Random

Target Dwelling Criteria (check all that apply):

- Code violations
- Judged to be in poor condition
- Presence of two or more children between ages of six months and six years
- Serves as day-care facility
- Recently prepared for re-occupancy
- Owner Occupied Housing Rehabilitation Program

Sample No.		Location	Dimensions of sample area (inches x inches)	Area (ft <sup>2</sup> )	Result of lab analysis (% by weight)
1 Composite		Exterior Window Sills / Frame	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> <input type="text"/> x <input type="text"/> = <input type="text"/> (in<sup>2</sup>)         </div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block; margin-top: 10px;">           N/A; Weight/PPM         </div>	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> <input type="text"/> (ft<sup>2</sup>)         </div>	<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;"> <input type="text"/> 61000 Pb         </div> <b>(ug/g) ppm</b>  <div style="border: 1px solid black; padding: 2px; display: inline-block;"> <input type="text"/> 6.1 % Pb by Wt.         </div>

<sup>1</sup> Measure to the nearest 1/8th or 1/10th of an inch. [1/8 = 0.125, 2/8 = 0.25, 3/8 = 0.375, 4/8 = 0.5, 5/8 = 0.625, 6/8 = 0.75, 7/8 = 0.875]

HUD standards: **0.5%** by weight or **5,000** Pb (ug/g) ppm  
 Clearance standards: **0.5%** by weight or **5,000** Pb (ug/g) ppm

See Chain of Custody for dates of collection and shipping details.



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

## Lead Paint Chip Analysis Report

Report Number: 23-02-03020

Client: Southeast Nebraska Dev. Dist.  
 7407 O St.  
 Lincoln, NE 68510

Received Date: 02/17/2023  
 Analyzed Date: 02/24/2023  
 Reported Date: 02/24/2023

Project/Test Address: 23-Fairbury Floodbuyout; 204 W 3rd  
 Collection Date: 02/10/2023

Client Number:  
 28-5852

Fax Number:  
 402-475-2794

# Laboratory Results

Lab Sample Number	Client Sample Number	Collection Location	Pb (ug/g) ppm	% Pb by Wt.	Narrative ID
23-02-03020-003	FFBO-204W-3		61000	6.1	

Preparation Method: ASTM E-1979-17  
 Analysis Method: EPA SW846 7000B

Reviewed By Authorized Signatory:

*Amanda Lowery*

The Reporting Limit (RL) for samples prepared by ASTM E-1979-17 is 10.0 ug Total Pb. The RL for samples prepared by EPA SW846 3050B is 25.0 ug Total Pb. Paint chip area and results are calculated based on area measurements determined by the client. All internal quality control requirements associated with this batch were met, unless otherwise noted.

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, etc., was provided by the client. Results reported above in mg/cm3 are calculated based on area supplied by client. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C.

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

LEGEND      Pb= lead      ug = microgram      ppm = parts per million  
                   ug/g = micrograms per gram      Wt. = weight



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

# Lead Dust Wipe Analysis Report

Report Number: 23-02-03020

Client: Southeast Nebraska Dev. Dist.  
 7407 O St.  
 Lincoln, NE 68510

Received Date: 02/17/2023  
 Analyzed Date: 02/23/2023  
 Reported Date: 02/24/2023

Project/Test Address: 23-Fairbury Floodbuyout; 204 W 3rd  
 Collection Date: 02/10/2023

Client Number:  
 28-5852

## Laboratory Results

Fax Number:  
 402-475-2794

Lab Sample Number	Client Sample Number	Collection Location	Surface	Total Pb (ug)	Wipe Area (ft <sup>2</sup> )	Concentration (ug/ft <sup>2</sup> )	Narrative ID
23-02-03020-004	FFBO-204W-4			<5.00	--	---	

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

Accreditation #:

Reviewed By Authorized Signatory:

Amanda Lowery

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, etc., was provided by the client. Results reported above in ug/ft<sup>2</sup> are calculated based on area supplied by the client. If the report does not contain the result for a field blank, it is due to the fact that the client did not include a field blank with their samples. These sample results do not reflect blank correction. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C.

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

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



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

## Lead Composite Dust Wipe Analysis Report

Client: Southeast Nebraska Dev. Dist.  
 7407 O St.  
 Lincoln, NE 68510

Report Number: 23-02-03020  
 Received Date: 02/17/2023  
 Analyzed Date: 02/20/2023  
 Reported Date: 02/24/2023

Project/Test Address: 23-Fairbury Floodbuyout; 204 W 3rd  
 Collection Date: 02/10/2023

Client Number:  
 28-5852

# Laboratory Results

Fax Number:  
 402-475-2794

Lab Sample Number	Client Sample Number	Collection Location	Surface	Total Pb (ug)	Wipe Area (ft <sup>2</sup> )	Concentration (ug/ft <sup>2</sup> )	Narrative ID
23-02-03020-001	FFBO-204W-1		SL	<12.5	0.634	<19.8	
23-02-03020-002	FFBO-204W-2		FL	<12.5	3.00	<4.17	

Method: ASTM E1979-17M/EPA SW846 7000B

Reviewed By Authorized Signatory:

Amanda Lowery

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

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



**CHAIN OF CUSTODY FORM**

Company Name: Southeast Nebraska Development District

Date: 13-Feb-23

Address: 7407 O St.

Contact Name: Cole Hartgerink

City, State, Zip: Lincoln, NE 68510

Sampler Name: Cole Hartgerink

EHS Client Account #: 28-5852 D

Project #: 23-Fairbury FloodBuyout-204 W 3rd


Phone #: (402) 475-2560

Fax #: (402) 475-2794

MP 02-17-23

Sample Number	Sample Date & Time	Asbestos					Lead					Other Metals <small>(Specify metals below)</small>				Indoor Air Quality					Particulate: Total Nuisance (NIOSH 0500) <input type="checkbox"/>		Comments			
		Bulk ID by PLM	(PCM) Fiber Count	PLM Point Count	PLM Gravimetric	TEM AHERA (Air)	TEM Chatfield (Bulk)	Air	Paint (%)	Paint (PPM)	Paint (mg/cm2)	Soil	Wipe* (See Note)	TCLP (Pb)	Waste Water	TCLP RCRA 8	Welding Fume	Toxic Metal Profile								Air Volume (L) OR Wipe Area (ft <sup>2</sup> ) OR Scrape Area(cm <sup>2</sup> )
FFBO; 204W-1	2/10/2023											X													.634 sq. ft	Window Sill
FFBO; 204W-2	1:30PM											X													3.00 sq. ft	Floor
FFBO; 204W-3								X																		Paint Chips
FFBO; 204W-4											X															Blank

23-02-03020 ✓



Due Date:  
02/24/2023  
(Friday)  
AE

AR

* Do wipe samples submitted meet ASTM E1792 requirements? X Yes No	
Released by: Cole Hartgerink	Signature: <i>Cole Hartgerink</i>
Received by:	Signature:
Released by: <i>A Swart</i>	Signature: <i>A Swart</i>
Received by:	Signature:
Date/Time: 02/10/2023 @1:30PM	Date/Time:
Date/Time:	Date/Time: 2/17/23
Date/Time:	Date/Time:

1:25 PM