



**MATRIX**  
Health & Safety Consultants, L.L.C.

# **XRF Lead-Based Paint Inspection & Risk Assessment Report**

Report Date: January 26, 2023

**Conducted At:**  
66 Atoah Road  
Robbinsville, NC 28771

**Prepared For:**  
Graham County  
12 N Main Street  
196 Knight Street  
Robbinsville, NC 28771

**Provided by:**  
Matrix Health & Safety Consultants, L.L.C.  
NC Certified Lead-Based Paint Firm No. FPB-00122  
John Pearson: NC Certified Lead-Based Paint Risk Assessor No. 120185

Matrix Job # 230162

## PROJECT INFORMATION

Matrix Health & Safety Consultants, L.L.C. (Matrix) is pleased to present this report of the survey to identify lead-based paint and perform a lead risk assessment of the property located at 66 Atoah Road, North Carolina. The subject unit tested is a one-story structure and was unoccupied at the time of the survey. This inspection/risk assessment report includes analytical methods and limitations, discussion of XRF procedures, risk assessment procedures, summary of findings, and recommendations.

John T. Pearson and Britt Wester performed the lead-based paint survey and risk assessment at the subject property on January 20, 2023.

## INSPECTION/RISK ASSESSMENT PROCEDURES

The lead-based paint survey began with our inspectors/risk assessors walking the subject property and documenting room equivalents, testing combinations, and selecting test locations. The walls/sides of the property are distinguished by Side A, B, C, or D. Wall or side A is facing the street, then moving clockwise would be wall/side B, C (located at rear of property), and D. After the testing strategy was determined, Matrix used a Viken Pb200i Lead Paint Spectrum Analyzer (XRF) to determine the lead content (mg/cm<sup>2</sup>) of painted surfaces at the subject residence. For the purpose of this survey, paints with concentrations of 1.0 mg/cm<sup>2</sup> or greater were considered lead-based paint. The inspection was conducted following EPA's work practice standards for conducting lead-based paint activities (40 CFR 745.227), the U.S. Department of Housing and Urban Development (HUD) *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* (Guidelines) with the 1997 and 2000 revisions, and all State and local regulations.

During the inspection the paint was identified as intact or deteriorated. The table below is the HUD/EPA guideline for assessing paint conditions under Title X of the 1992 Housing and Community Development Act (Revision 1/2004).

**HUD and EPA  
 Categories of Paint Film Quality**

Type of Building Component <sup>1</sup>	Intact	Deteriorated <sup>2</sup>
Exterior components with large surface areas	Entire surface is intact or less than or equal to 20 ft <sup>2</sup>	Damage to more than 20 ft <sup>2</sup>
Interior components with large surface areas (wall, ceilings, floors, doors)	Entire surface is intact or less than or equal to 2 ft <sup>2</sup>	Damage to more than 2 ft <sup>2</sup>
Interior and exterior components with small surface areas (window sills, baseboards, soffits, trim)	Entire surface is intact or less than or equal to 10% of the total surface area of the component	Damage to more than 10% of the total surface area of the component

<sup>1</sup> "Building Component" in this table refers to each individual component or side of building, **not** the combined surface area of all similar components in a room (e.g., a wall

with three ft<sup>2</sup> of deteriorated paint is considered “deteriorated”, even if the other 3 walls in a room have no deteriorated paint).

2 Surfaces in “deteriorated” condition are considered to be “lead-based paint hazards” as defined in Title X and should be addressed through abatement or interim controls.

After delineating lead-based paints at the subject residence, Matrix performed a risk assessment. A lead-based paint risk assessment is defined as an on-site investigation to determine the existence, nature, severity, and location of lead-based paint hazards. This was performed by assessing the current condition of the residence, the condition of lead-based paints, along with dust and soil sampling (if required). If residents are available, Matrix also requests that HUD provided resident questionnaires be completed. The risk assessment was conducted following EPA’s work practice standards for conducting lead-based paint activities (40 CFR 745.227), the U.S. Department of Housing and Urban Development (HUD) *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* (Guidelines) with the 1997 and 2000 revisions, and all State and local regulations. However, the State of North Carolina does not allow composite dust wipe samples therefore, only single-surface dust samples were obtained. The Building Condition, Paint Conditions, Dust Wipe Sampling, and Soil Sampling forms are attached with this report.

Lead wipe and composite soil samples were sent under chain-of-custody documentation to Scientific Analytical Institute in Greensboro, North Carolina, for laboratory analysis. The collected samples were placed into individual sample containers, sealed and a unique identification number was assigned to the sample containers at the time of collection. The identification included the sample collection date and locations. This information was logged on our lead wipe and soil sampling forms and submitted to the laboratory. SAI is an AIHA Accredited ELLAP (Environmental Lead Laboratory Accreditation Program) approved laboratory.

## LEAD-BASED PAINT SURVEY RESULTS

Below you will find a chart summarizing the components with concentrations above the HUD/EPA level of 1.0 mg/cm<sup>2</sup>. Detectable lead quantities less than 1.0 mg/cm<sup>2</sup> may constitute a lead dust hazard even though it is not a lead-based paint as defined by Federal Standards. The XRF Testing Report is attached to this report.

### 66 Atoah Road (XRF) Exterior Results

COMPONENT	SUBSTRATE	COLOR	LOCATION	LEAD CONTENT (mg/cm <sup>2</sup> )	CONDITION
Door Casing	Wood	White	A	1.5	Intact
Door	Wood	White	A	3.8	Intact
Porch Ceiling	Wood	White	A,B,C,D	3.2	Deteriorated
Porch Header	Wood	White	A,B,C,D	2.9	Deteriorated
Soffit	Wood	White	A,B,C,D	3.8 – 4.1	Deteriorated
Fascia	Wood	White	A,B,C,D	2.7 – 3.7	Deteriorated
Window Casing	Wood	White	A,B,C,D	1.3 – 2.7	Deteriorated

Personnel performing renovation or demolition activities that may disturb the painted surfaces that contain any quantity of lead should comply with all current OSHA regulations (**OSHA Lead in Construction Standard 29 CFR 1926.62**) in order to minimize employee exposure to lead.

### **SINGLE SURFACE LEAD WIPE SAMPLING RESULTS**

Below you will find charts summarizing lead wipe sampling performed at the subject property. EPA standards for wipe sampling are 10 ug/ft<sup>2</sup> (floors) and 100 ug/ft<sup>2</sup> (interior window sills and wells).

#### **66 Atoah Road (Lead Dust Wipes)**

SAMPLE #	ROOM NAME	SURFACE TYPE	LEAD CONTENT (ug/ft <sup>2</sup> )
66-1	Livingroom	Floor	2.2
66-2	Livingroom	Window Sill	19
66-3	Dining Room	Floor	1.6
66-4	Dining Room	Window Sill	24
66-5	Kitchen	Floor	1.3
66-6	Kitchen	Window Sill	24

The Laboratory results of the single-surface wipe samples obtained from the subject property determined that lead concentrations were **below** their respective standards for lead.

### **COMPOSITE SOIL SAMPLING RESULTS**

For the purpose of this risk assessment, soil samples were obtained as a composite sample in order to represent soil conditions at the subject property. Current EPA Regulations establish lead hazard limits of 400 ppm for high contact playground areas, and 1,200 ppm for other residential yard areas.

#### **66Atoah Road (Soil Sample)**

Sample #	Location	Bare or Covered	Lead Content (ppm)
66-S-1	Drip Line	Bare	130

Based on laboratory results, the composite soil samples obtained from the subject drip line was **below** the current EPA/HUD Standards for residential yard areas other than high contact play areas.

### **DISCLOSURE**

According to the Federal Law (24 CFR part 35 and 40 CFR part 745) a copy of this summary must be provided to new tenants and purchasers of this facility/property, before they become obligated under a lease or sales contract. The entire report must also be provided to new purchasers and be made available to new tenants. Landlords (lessors) and sellers are also required to distribute an educational pamphlet, including standard

warning language in their leases or sales contracts to ensure that parents have the information necessary to protect their children from lead-based paint hazards.

The Occupational Safety and Health Administration (OSHA) Lead in Construction Standard states that “negative” readings (i.e. those below the HUD/EPA definition of what constitutes LBP [1.0 mg/cm<sup>2</sup>]) **does not** relieve contractors from performing exposure assessments (personal air monitoring) on their employees per the OSHA Lead Standard, and should not be interpreted as lead free. Although a reading may indicate “negative”, airborne lead concentrations still may exceed the OSHA Action Level or the OSHA Permissible exposure limit (PEL) depending on the work activity.

## QUALIFICATIONS

This report summarizes Matrix’s evaluation of the conditions observed at the subject property during the course of the survey to identify lead-based paints. Our findings are based upon our observations at the residence and XRF testing performed at the time of this survey. Additional lead-based paints may exist in other portions of the residence but were undetected due to inaccessibility or due to an imperceptible change in paints. Any conditions discovered which deviate from the data contained in this report should be presented to us for our evaluation.

Matrix appreciates the opportunity to have provided these services. We would be glad to discuss any of the results contained in this report, at your convenience. If there are any questions concerning this report or results, please contact us.

Sincerely,

**MATRIX HEALTH AND SAFETY CONSULTANTS, L.L.C.**



John T. Pearson  
Asset Manager

Attachment:           XRF Testing Report  
                              Laboratory Analytical Results  
                              Risk Assessment

## **XRF Testing Report**

# 66 Atoah Road

Matrix Health & Safety Consultants LLC

2900 Yonkers Road  
Raleigh, NC 27604

INSPECTION DATE: 1/20/2023 - 1/20/2023

INSTRUMENT TYPE: Viken Detection  
Pb200i XRF Lead Paint Analyzer  
3100

ACTION LEVEL: 1.0 mg/cm<sup>2</sup>

Job ID: 66 Atoah Road

STATEMENT:

# 66 Atoah Road

Inspection Date: 1/20/2023 - 1/20/2023  
 Action Level: 1.0 mg/cm<sup>2</sup>  
 Total Readings: 17  
 Unit Started: 01/20/2023 10:48:15  
 Unit Ended: 01/20/2023 11:28:19

Inspection Site: 66 Atoah Road  
 Robbinsville, NC 28771

Read #	Result	RTA Present	COMPONENTS	SUBSTRATE	SIDE	CONDITION	Color	Floor	ROOM	Lead (mg/cm <sup>2</sup> )	Mode
1		Off			Calibration					1.0 mg/cm <sup>2</sup>	Action Level
2		Off			Calibration					1.0 mg/cm <sup>2</sup>	Action Level
3		Off			Calibration					1.1 mg/cm <sup>2</sup>	Action Level
4		Off			Calibration					0.0 mg/cm <sup>2</sup>	Action Level
5		Off			Calibration					0.0 mg/cm <sup>2</sup>	Action Level
6		Off			Calibration					0.0 mg/cm <sup>2</sup>	Action Level
8	Positive	Off	Door Casing	Wood	A	Intact	White	First	Exterior	1.5 mg/cm <sup>2</sup>	Action Level
9	Positive	Off	Door	Wood	A	Intact	White	First	Exterior	3.8 mg/cm <sup>2</sup>	Action Level
10	Positive	Off	Porch Ceiling	Wood	A	Deteriorated	White	First	Exterior	3.2 mg/cm <sup>2</sup>	Action Level
11	Positive	Off	Porch Header	Wood	A	Deteriorated	White	First	Exterior	2.9 mg/cm <sup>2</sup>	Action Level
12	Positive	Off	Soffit	Wood	A	Deteriorated	White	First	Exterior	3.8 mg/cm <sup>2</sup>	Action Level
13	Positive	Off	Facia	Wood	A	Deteriorated	White	First	Exterior	2.7 mg/cm <sup>2</sup>	Action Level
14	Positive	Off	Window Casing	Wood	A	Deteriorated	White	First	Exterior	2.7 mg/cm <sup>2</sup>	Action Level
17	Positive	Off	Window Casing	Wood	B	Deteriorated	White	First	Exterior	1.3 mg/cm <sup>2</sup>	Action Level
22	Positive	Off	Soffit	Wood	C	Deteriorated	White	First	Exterior	4.1 mg/cm <sup>2</sup>	Action Level
23	Positive	Off	Facia	Wood	C	Deteriorated	White	First	Exterior	3.7 mg/cm <sup>2</sup>	Action Level
25	Positive	Off	Window Casing	Wood	D	Deteriorated	White	First	Exterior	1.9 mg/cm <sup>2</sup>	Action Level



# 66 Atoah Road

Inspection Date: 1/20/2023 - 1/20/2023      Inspection Site: 66 Atoah Road  
Action Level: 1.0 mg/cm<sup>2</sup>      Robbinsville, NC 28771  
Total Readings: 17  
Unit Started: 01/20/2023 10:48:15  
Unit Ended: 01/20/2023 11:28:19

----- END OF READINGS -----

**Selected images...**



Reading #8



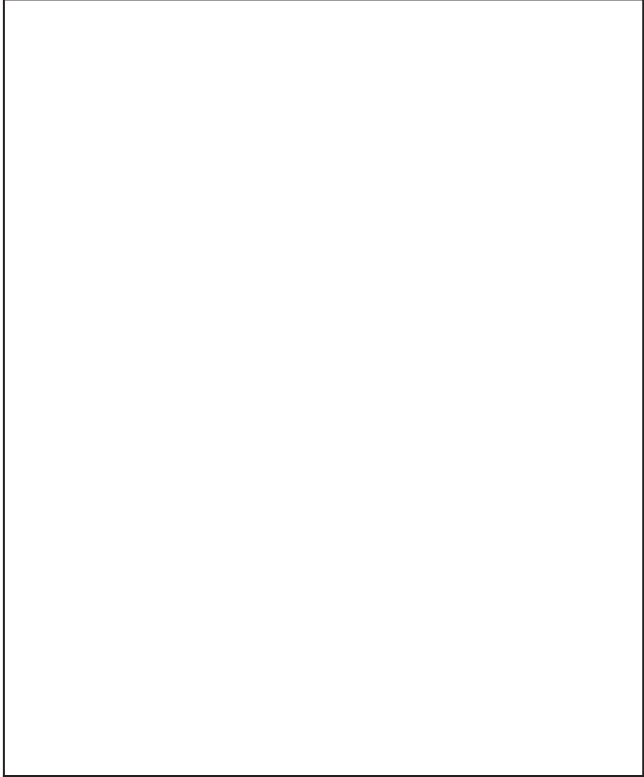
Reading #9



Reading #10



Reading #12



Reading #14

# 66 Atoah Road

Matrix Health & Safety Consultants LLC

2900 Yonkers Road  
Raleigh, NC 27604

INSPECTION DATE: 1/20/2023 - 1/20/2023

INSTRUMENT TYPE: Viken Detection  
Pb200i XRF Lead Paint Analyzer  
3100

ACTION LEVEL: 1.0 mg/cm<sup>2</sup>

Job ID: 66 Atoah Road

STATEMENT:

# 66 Atoah Road

Inspection Date: 1/20/2023 - 1/20/2023  
 Action Level: 1.0 mg/cm<sup>2</sup>  
 Total Readings: 73  
 Unit Started: 01/20/2023 10:48:15  
 Unit Ended: 01/20/2023 11:28:19

Inspection Site: 66 Atoah Road  
 Robbinsville, NC 28771

Read #	Result	RTA Present	COMPONENTS	SUBSTRATE	SIDE	CONDITION	Color	Floor	ROOM	Lead (mg/cm <sup>2</sup> )	Mode
1		Off			Calibration					1.0 mg/cm <sup>2</sup>	Action Level
2		Off			Calibration					1.0 mg/cm <sup>2</sup>	Action Level
3		Off			Calibration					1.1 mg/cm <sup>2</sup>	Action Level
4		Off			Calibration					0.0 mg/cm <sup>2</sup>	Action Level
5		Off			Calibration					0.0 mg/cm <sup>2</sup>	Action Level
6		Off			Calibration					0.0 mg/cm <sup>2</sup>	Action Level
7	Negative	Off	Wall	Aluminum	A	Intact	White	First	Exterior	0.0 mg/cm <sup>2</sup>	Action Level
8	Positive	Off	Door Casing	Wood	A	Intact	White	First	Exterior	1.5 mg/cm <sup>2</sup>	Action Level
9	Positive	Off	Door	Wood	A	Intact	White	First	Exterior	3.8 mg/cm <sup>2</sup>	Action Level
10	Positive	Off	Porch Ceiling	Wood	A	Deteriorated	White	First	Exterior	3.2 mg/cm <sup>2</sup>	Action Level
11	Positive	Off	Porch Header	Wood	A	Deteriorated	White	First	Exterior	2.9 mg/cm <sup>2</sup>	Action Level
12	Positive	Off	Soffit	Wood	A	Deteriorated	White	First	Exterior	3.8 mg/cm <sup>2</sup>	Action Level
13	Positive	Off	Facia	Wood	A	Deteriorated	White	First	Exterior	2.7 mg/cm <sup>2</sup>	Action Level
14	Positive	Off	Window Casing	Wood	A	Deteriorated	White	First	Exterior	2.7 mg/cm <sup>2</sup>	Action Level
15	Negative	Off	Deck Trim	Wood	A	Deteriorated	Blue	First	Exterior	0.0 mg/cm <sup>2</sup>	Action Level
16	Negative	Off	Wall	Aluminum	B	Intact	White	First	Exterior	0.0 mg/cm <sup>2</sup>	Action Level
17	Positive	Off	Window Casing	Wood	B	Deteriorated	White	First	Exterior	1.3 mg/cm <sup>2</sup>	Action Level
18	Negative	Off	Gutter	Aluminum	B	Deteriorated	White	First	Exterior	0.1 mg/cm <sup>2</sup>	Action Level

# 66 Atoah Road

Inspection Date: 1/20/2023 - 1/20/2023  
 Action Level: 1.0 mg/cm<sup>2</sup>  
 Total Readings: 73  
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Read #	Result	RTA Present	COMPONENTS	SUBSTRATE	SIDE	CONDITION	Color	Floor	ROOM	Lead (mg/cm <sup>2</sup> )	Mode
19	Negative	Off	Wall	Aluminum	C	Intact	White	First	Exterior	0.0 mg/cm <sup>2</sup>	Action Level
20	Negative	Off	Door Casing	Wood	C	Deteriorated	White	First	Exterior	0.8 mg/cm <sup>2</sup>	Action Level
21	Negative	Off	Window Casing	Wood	C	Deteriorated	White	First	Exterior	0.9 mg/cm <sup>2</sup>	Action Level
22	Positive	Off	Soffit	Wood	C	Deteriorated	White	First	Exterior	4.1 mg/cm <sup>2</sup>	Action Level
23	Positive	Off	Facia	Wood	C	Deteriorated	White	First	Exterior	3.7 mg/cm <sup>2</sup>	Action Level
24	Negative	Off	Wall	Aluminum	D	Deteriorated	White	First	Exterior	0.0 mg/cm <sup>2</sup>	Action Level
25	Positive	Off	Window Casing	Wood	D	Deteriorated	White	First	Exterior	1.9 mg/cm <sup>2</sup>	Action Level
26	Negative	Off	Corner Board	Aluminum	D	Deteriorated	White	First	Exterior	0.1 mg/cm <sup>2</sup>	Action Level
27	Negative	Off	Crawl Casing	Wood	D	Deteriorated	White	First	Exterior	0.0 mg/cm <sup>2</sup>	Action Level
28	Negative	Off	Crawl Casing	Wood	D	Deteriorated	White	First	Exterior	0.1 mg/cm <sup>2</sup>	Action Level
29	Negative	Off	Deck Trim	Wood	D	Deteriorated	White	First	Exterior	0.0 mg/cm <sup>2</sup>	Action Level
30	Negative	Off	Wall	Panel	A	Intact	Stain	First	Living Room	0.0 mg/cm <sup>2</sup>	Action Level
31	Negative	Off	Wall	Panel	B	Intact	Stain	First	Living Room	0.1 mg/cm <sup>2</sup>	Action Level
32	Negative	Off	Wall	Panel	C	Intact	Stain	First	Living Room	0.1 mg/cm <sup>2</sup>	Action Level
33	Negative	Off	Wall	Panel	D	Intact	Stain	First	Living Room	0.0 mg/cm <sup>2</sup>	Action Level
34	Negative	Off	Crown Molding	Wood	D	Intact	Stain	First	Living Room	0.0 mg/cm <sup>2</sup>	Action Level
35	Negative	Off	BaseBoard	Wood	D	Intact	Stain	First	Living Room	0.0 mg/cm <sup>2</sup>	Action Level
36	Negative	Off	Door Casing	Wood	D	Intact	Stain	First	Living Room	0.0 mg/cm <sup>2</sup>	Action Level

# 66 Atoah Road

Inspection Date: 1/20/2023 - 1/20/2023  
 Action Level: 1.0 mg/cm<sup>2</sup>  
 Total Readings: 73  
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 Inspection Site: 66 Atoah Road  
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Read #	Result	RTA Present	COMPONENTS	SUBSTRATE	SIDE	CONDITION	Color	Floor	ROOM	Lead (mg/cm <sup>2</sup> )	Mode
37	Negative	Off	Window Sill	Wood	D	Intact	Stain	First	Living Room	0.0 mg/cm <sup>2</sup>	Action Level
38	Negative	Off	Ceiling	Acoustic Tile		Intact	White	First	Living Room	0.0 mg/cm <sup>2</sup>	Action Level
39	Negative	Off	Wall	Panel	A	Intact	Stain	First	Dining Room	0.0 mg/cm <sup>2</sup>	Action Level
40	Negative	Off	Ceiling	Acoustic Tile		Intact	White	First	Dining Room	0.0 mg/cm <sup>2</sup>	Action Level
41	Negative	Off	Crown Molding	Wood	A	Intact	Stain	First	Dining Room	0.0 mg/cm <sup>2</sup>	Action Level
42	Negative	Off	Door Casing	Wood	A	Intact	Stain	First	Dining Room	0.0 mg/cm <sup>2</sup>	Action Level
43	Negative	Off	BaseBoard	Wood	A	Intact	Stain	First	Dining Room	0.1 mg/cm <sup>2</sup>	Action Level
44	Negative	Off	Window Casing	Wood	A	Intact	Stain	First	Dining Room	0.1 mg/cm <sup>2</sup>	Action Level
45	Negative	Off	Wall	Panel	A	Intact	Stain	First	Kitchen	0.0 mg/cm <sup>2</sup>	Action Level
46	Negative	Off	Ceiling	Acoustic Tile	A	Intact	White	First	Kitchen	0.0 mg/cm <sup>2</sup>	Action Level
47	Negative	Off	Door Casing	Wood	A	Intact	Stain	First	Kitchen	0.0 mg/cm <sup>2</sup>	Action Level
48	Negative	Off	Crown Molding	Wood	A	Intact	Stain	First	Kitchen	0.0 mg/cm <sup>2</sup>	Action Level
49	Negative	Off	BaseBoard	Wood	A	Intact	Stain	First	Kitchen	0.0 mg/cm <sup>2</sup>	Action Level
50	Negative	Off	Cabinet	Wood	B	Intact	Stain	First	Kitchen	0.0 mg/cm <sup>2</sup>	Action Level
51	Negative	Off	Cabinet	Wood	B	Intact	Stain	First	Kitchen	0.0 mg/cm <sup>2</sup>	Action Level
52	Negative	Off	Door	Wood	C	Intact	Stain	First	Kitchen	0.0 mg/cm <sup>2</sup>	Action Level
53	Negative	Off	Floor	Wood		Deteriorated	Stain	First	Kitchen	0.0 mg/cm <sup>2</sup>	Action Level
54	Negative	Off	Wall	Panel	A	Intact	Stain	First	Bedroom C/D	0.0 mg/cm <sup>2</sup>	Action Level

# 66 Atoah Road

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55	Negative	Off	Crown Molding	Panel	A	Intact	Stain	First	Bedroom	0.0 mg/cm <sup>2</sup> C/D	Action Level
56	Negative	Off	Door Casing	Panel	A	Intact	Stain	First	Bedroom	0.0 mg/cm <sup>2</sup> C/D	Action Level
57	Negative	Off	Door	Panel	A	Intact	Stain	First	Bedroom	0.0 mg/cm <sup>2</sup> C/D	Action Level
58	Negative	Off	BaseBoard	Wood	A	Intact	Stain	First	Bedroom	0.0 mg/cm <sup>2</sup> C/D	Action Level
59	Negative	Off	Window Casing	Wood	D	Intact	Stain	First	Bedroom	0.0 mg/cm <sup>2</sup> C/D	Action Level
60	Negative	Off	Wall	Panel	D	Intact	White	First	Hall	0.0 mg/cm <sup>2</sup> Bathroom	Action Level
61	Negative	Off	Wall	Panel	B	Deteriorated	Green	First	Hall	0.2 mg/cm <sup>2</sup> Bathroom	Action Level
62	Negative	Off	Crown Molding	Wood	B	Intact	Stain	First	Hall	0.0 mg/cm <sup>2</sup> Bathroom	Action Level
63	Negative	Off	Door Casing	Wood	B	Intact	Stain	First	Hall	0.0 mg/cm <sup>2</sup> Bathroom	Action Level
64	Negative	Off	Door	Wood	B	Intact	Stain	First	Hall	0.0 mg/cm <sup>2</sup> Bathroom	Action Level
65	Negative	Off	Cabinet	Wood	B	Intact	Stain	First	Hall	0.0 mg/cm <sup>2</sup> Bathroom	Action Level
66	Negative	Off	Bathtub	Porcelain	B	Intact	White	First	Hall	0.8 mg/cm <sup>2</sup> Bathroom	Action Level
67	Negative	Off	Wall	Panel	C	Intact	Stain	First	Bedroom	0.0 mg/cm <sup>2</sup> C/D	Action Level
68	Negative	Off	Crown Molding	Wood	C	Intact	Stain	First	Bedroom	0.0 mg/cm <sup>2</sup> C/D	Action Level
69	Negative	Off	Door Casing	Wood	C	Intact	Stain	First	Bedroom	0.0 mg/cm <sup>2</sup> C/D	Action Level
70	Negative	Off	Door	Wood	C	Intact	Stain	First	Bedroom	0.0 mg/cm <sup>2</sup> C/D	Action Level
71	Negative	Off	BaseBoard	Wood	C	Intact	Stain	First	Bedroom	0.1 mg/cm <sup>2</sup> C/D	Action Level
72	Negative	Off	Window Casing	Wood	A	Intact	Stain	First	Bedroom	0.0 mg/cm <sup>2</sup> C/D	Action Level



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Read #	Result	RTA Present	COMPONENTS	SUBSTRATE	SIDE	CONDITION	Color	Floor	ROOM	Lead (mg/cm <sup>2</sup> )	Mode
73	Negative	Off	Ceiling	Acoustic Tile	Deteriorated	White	First	Bedroom	0.0 mg/cm <sup>2</sup>	C/D	Action Level

----- END OF READINGS -----

## **Laboratory Analytical Results**



# Analysis for Lead Concentration in Wipe Samples

by Flame Atomic Absorption Spectroscopy  
EPA SW-846 3050B/6010C/7000B



**Customer:** Matrix Health & Safety Consultants  
2900-B Yonkers Rd.  
Raleigh, NC 27604

**Attn:** Britt Wester

**Lab Order ID:** 10014628

**Analysis:** PBW

**Date Received:** 01/24/2023

**Date Reported:** 01/25/2023

**Project:** 66 Atoah Road, Robbinsville, NC

Sample ID	Description	Area (ft <sup>2</sup> )	Concentration (µg)	Concentration (µg/ft <sup>2</sup> )
Lab Sample ID	Lab Notes			
66-1	Living room floor center A	2	4.3	2.2
10014628_0001				
66-2	Living room W. sill center A	1.056	20.	19
10014628_0002				
66-3	Fining room floor center C	2	3.2	1.6
10014628_0003				
66-4	Dining room W. sill center B	0.778	18	24
10014628_0004				
66-5	Kitchen floor center A	2	2.7	1.3
10014628_0005				
66-6	Kitchen w. sill center C	0.944	23	24
10014628_0006				

Disclaimer: Unless otherwise noted blank sample correction was not performed on analytical results. Scientific Analytical Institute participates in the AIHA ELPAT program. ELPAT Laboratory ID: 173190. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. Analytical uncertainty available upon request. The quality control samples run with the samples in this report have passed all EPA required specifications unless otherwise noted. RL: (Report Limit for an undiluted 25 ml sample is 2µg Total Pb). Unless indicated, areas and volumes were provided by the customer.

Matthew Caffey (6)

Analyst

Approved Signatory

167014628



**Form 5.4a Field Sampling Form for Dust. (Single-Surface Sampling)**

(Use a separate form for each housing unit, common area, or exterior. Sample all layers of paint, not just deteriorated paint layers.) Page 1 of 1

Property address 66 ATOAH ROAD, Robbinsville, NC

Name of property owner WILMA MAE ELLER Apt. No.          Common Area, Housing Unit, or Exterior No.         

Name/Firm of risk assessor Beth Wester Date of assessment 1/20/23

Sample Number	Room or Entryway	Surface Type <sup>1</sup>	Exact Location of Wipe Sample	Is surface smooth & cleanable?	Sample Area <sup>2</sup> (inches x inches)	Sample Area <sup>3</sup> (ft <sup>2</sup> )	Lab Result <sup>4</sup> (pg/ft <sup>2</sup> )	Notes
GG-1	Living Room	Floor	Center A	Y	12 x 12			
GG-2	Living Room	W. sill	Center A	Y	4 x 38			
GG-3	Dining Room	Floor	Center B	Y	12 x 12			
GG-4	Dining Room	W. sill	Center B	Y	4 x 28			
GG-5	Kitchen	Floor	Center A	Y	12 x 12			
GG-6	Kitchen	W. sill	Center C	Y	4 x 34			
					X			
					X			
					X			
					X			

- 1 Hard Floor (HF), Carpeted Floor (CF), or Interior Window Sill (S)
- 2 Measure to the nearest 1/8<sup>th</sup> or 1/10<sup>th</sup> 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]
- 3 Calculate sample area in square feet as follows: Calculate square inches, then divide by 144.
- 4 Provide areas, direct laboratory to report the dust lead result in pg/ft<sup>2</sup>.

NOTE: EPA standards: 40 pg/ft<sup>2</sup> (Interior floors); 250 pg/ft<sup>2</sup> (interior window sills) for Risk Assessment; 25 pg/ft<sup>2</sup> and 125 pg/ft<sup>2</sup> for screen.

Total number of samples on this page 6 Date of sample collection 1/20/23

Shipped to lab by Beth Wester 1/20/23 (Signature and date)

Received by                   /          /          (Signature and date)

Reviewed by                   /          /          (Signature and date)

Date results reported by lab          /          /          Reviewed by



# Analysis for Lead Concentration in Soil Samples

by Flame Atomic Absorption Spectroscopy  
EPA SW-846 3050B/6010C/700B



**Customer:** Matrix Health & Safety Consultants  
2900-B Yonkers Rd.  
Raleigh, NC 27604

**Attn:** Britt Wester

**Lab Order ID:** 10014631

**Analysis:** PBS

**Date Received:** 01/24/2023

**Date Reported:** 01/25/2023

**Project:** 66 Atoah Road, Robbinsville, NC

Sample ID	Description	Mass (g)	Concentration (ppm)	Concentration (% by weight)
Lab Sample ID	Lab Notes			
66-S-1	Dripline	1.3763	130	0.013%
10014631_0001				

Disclaimer: Unless otherwise noted blank sample correction was not performed on analytical results. Scientific Analytical Institute participates in the AIHA ELPAT program. ELPAT Laboratory ID: 173190. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. Analytical uncertainty available upon request. The quality control samples run with the samples in this report have passed all EPA required specifications unless otherwise noted. RL: (Report Limit for an undiluted 50 ml sample is 4µg Total Pb).

Matthew Caffey (1)

Analyst

Approved Signatory



## **Risk Assessment**



**Form 5.0 Questionnaire for a Lead Hazard Risk Assessment  
of an Individual Occupied Dwelling Unit**

(To be completed by risk assessor via interview with owner-occupant or, if a rental unit, an adult resident and, for questions 15 & 16, the owner.)

Property address 66 ATOAH ROAD Robbinsville, NC

Apt. No. \_\_\_\_\_ Unit is  Owner occupied  Renter occupied

Year of construction 1932 Prior LBP testing?  Yes  No

Name of owner interviewed Willa Mae Eller Owner interview date: 1/20/23

Name of resident interviewed (if rental unit) \_\_\_\_\_ Interview date: \_\_\_/\_\_\_/\_\_\_

Name of risk assessor Britt Wester

**Children and Children's Habits**

1. Do any children under age 6 live in the home or visit frequently?  Yes  No

2. If yes, how many? \_\_\_\_\_

3. Please provide the following information about each child under 6 to the extent you can.

	Child 1	Child 2	Child 3	Child 4
(a) Age:				
(b) Blood lead level:				
(c) Month/year of blood lead test:				
(d) Location of bedroom:				
(e) Main room where child eats:				
(f) Main room where child plays:				
(g) Main room where toys are stored:				
(h) Main locations where child plays outdoors:				

(If a resident child under age 6 has had an elevated blood lead level, an environmental investigation may be necessary [see Chapter 16 of the HUD Guidelines].)

4. (a) Do any children tend to chew on any painted surfaces, such as interior window sills?  Yes  No

(b) If yes, where? \_\_\_\_\_





**Form 5.0 Questionnaire for a Lead Hazard Risk Assessment  
of an Individual Occupied Dwelling Unit**

Property address 66 ATOAH ROAD Robbinsville, NC

**Other Household Information and Family Use Patterns**

5. Do women of child-bearing age live in the home?  Yes  No
6. If the home is in a building with other dwelling units, what common areas in the building are used by children?  
✓
7. (a) Which entrance is used most frequently? A / C  
(b) What other entrances are used frequently? ✓
8. Which windows are opened most frequently? N/A
9. (a) Do you use window air conditioners? \*  Yes  No  
(b) If yes where? \_\_\_\_\_  
*\* Condensation underneath window air conditioners often causes paint deterioration.*
10. (a) Do you or any other household members garden?  Yes  No  
(b) If yes, where is the garden? \_\_\_\_\_
11. (a) Are you planning any landscaping activities that will remove grass or ground covering?  Yes  No  
(b) If yes, where? \_\_\_\_\_
12. (a) Which areas of the home get cleaned regularly? all  
(b) Which areas of the home do not get cleaned regularly? BACK Bedroom, ATTIC
13. (a) Are any household members exposed to lead at work?  Yes  No  
(if no, go to question 14.)  
(b) If yes, are dirty work clothes brought home?  Yes  No  
(c) If they are brought home, who handles dirty work clothes and where are they placed and cleaned?
14. (a) Do you have pets?  Yes  No  
(b) If yes, do these pets go outdoors? \_\_\_\_\_

**Building Renovations**

15. (a) Were any building renovations or repainting done here during the past year?  Yes  No  
(b) If yes, what work was done, and when? \_\_\_\_\_  
(c) Were carpets, furniture and/or family belongings present in the work areas?  Yes  No  
(d) If yes, which items and where were they? \_\_\_\_\_  
(e) Was construction debris stored in the yard?  Yes  No  
(f) If yes, describe what, where and how was it stored. \_\_\_\_\_
16. (a) Are you conducting or planning any building renovations?  Yes  No  
(b) If yes, what work will be done, and when? \_\_\_\_\_



**Form 5.1 Building Condition Form for Lead Hazard Risk Assessment.**

Property address 66 ATZAH ROAD Robbinsville Apt. No. \_\_\_\_\_

Name of property owner WILHA MAE ELLER

Name of risk assessor Brian Wester Date of assessment 1/20/23

Condition	Yes	No	Comments
Roof missing parts of surfaces (tiles, boards, shakes, etc.)		X	
Roof has holes or large cracks		X	
Gutters or downspouts broken		X	
Chimney masonry cracked, bricks loose or missing, obviously out of plumb		X	
Exterior or interior walls have obvious large cracks or holes, requiring more than routine pointing (if masonry) or painting		X	
Exterior siding has missing boards or shingles		X	
Water stains on interior walls or ceilings	X		Ceiling
Walls or ceilings deteriorated		X	
More than "very small" amount of paint in a room deteriorated		X	
Two or more windows or doors broken, missing, or boarded up		X	
Porch or steps have major elements broken, missing, or boarded up		X	
Foundation has major cracks, missing material, structure leans, or visibly unsound		X	
** Total number	1		

\* The "very small" amount is the *de minimis* amount under the HUD Lead Safe Housing Rule (24 CFR 35.1350(d)) or the amount of paint that is not "paint in poor condition" under the EPA lead training and certification ("402") rule (40 CFR 745.223).

\*\* If the "yes" column has any checks, the dwelling is usually considered not to be in good condition for the purposes of a risk assessment, and conducting a lead hazard screen is not advisable. However, specific conditions and extenuating circumstances should be considered before determining the final condition of the dwelling and the appropriateness of a lead hazard screen. If the "Yes" column has any checks, and a lead hazard screen is to be performed, describe below the extenuating circumstances that justify conducting a lead hazard screen.

**Notes (including other conditions of concern):**



**Form 5.2 Report of Visual Assessment (for Lead Hazard Risk Assessment).**

Property address 66 ATOAH ROAD Robbinsville, NC Apt. No. \_\_\_\_\_ Page 1 of \_\_\_\_\_

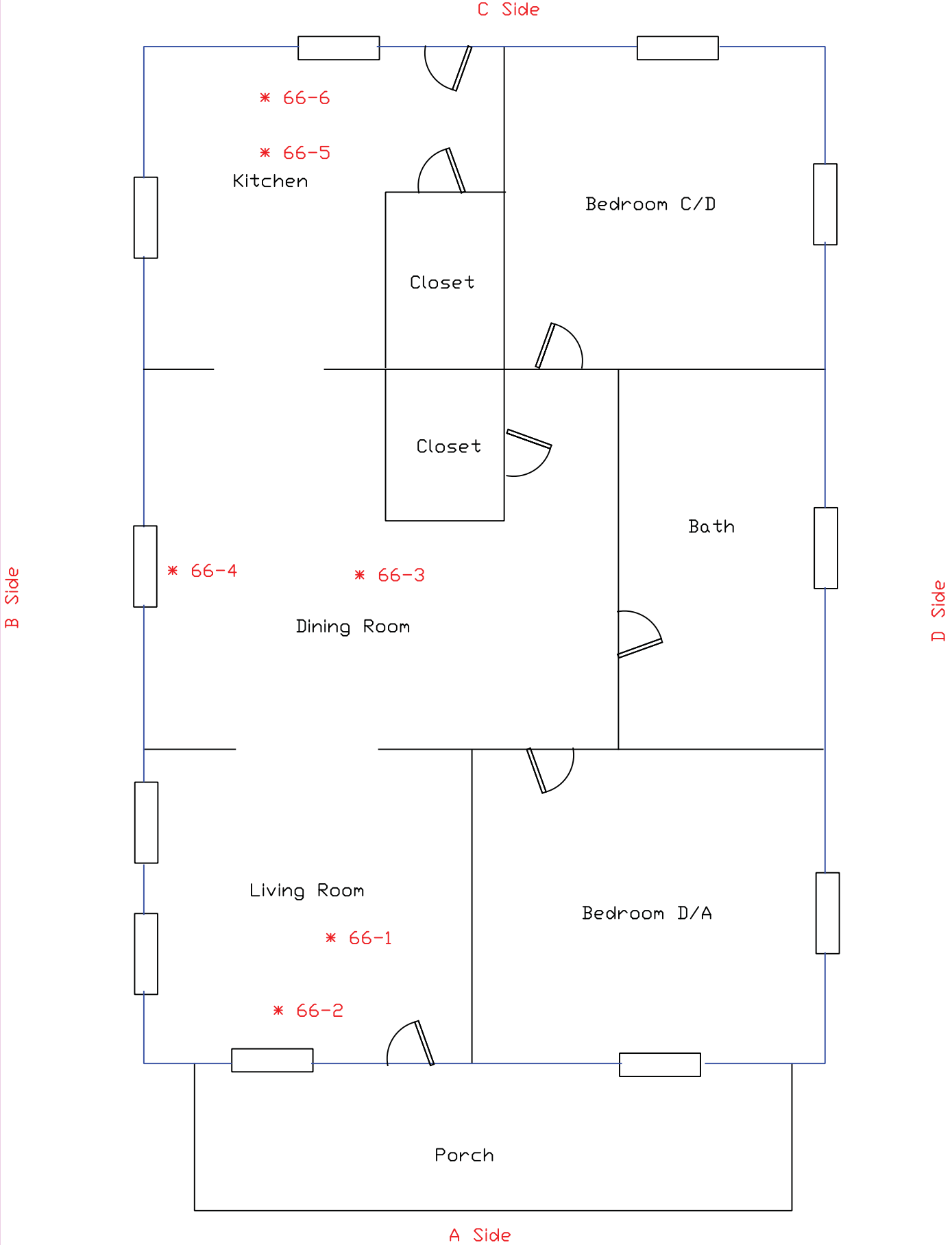
Name of property owner WILHA MAE ELLER

Name of risk assessor Bruce Wester Date of assessment 1/20/23

Area Description	Deteriorated Paint			Friction Or Impact Surface? (F or I)	Visible Teeth Marks? (Y or N)	Paint Testing Results <sup>4</sup>	Notes [e.g., paint testing (e.g., XRF, lab analysis) indicates paint is or is not lead-based paint; causes(s) of hazard control failures]
	Building Component, Dust, or Bare Soil Play Area/ Non-Play Area	Area (sq. ft.)	Is Area Small? <sup>2</sup> (Y or N)				
Kitchen	Ceiling	20	✓	Water	N	N	
Rear Bedroom	Ceiling	30	✓	Water	N	N	

<sup>1</sup> Include room equivalent or exterior side or wall, as appropriate.  
<sup>2</sup> Lead-safe work practices and clearance/cleaning verification are not required if work does not disturb painted surfaces that total more than  
 ❖ For assisted housing: HUD's *de minimis* area of: 20 ft<sup>2</sup> or less on exterior surfaces, 2 ft<sup>2</sup> or less in any one interior room or space, or 10 percent of the total surface area on an interior or exterior type of component with a small surface area (such as trim, window sills, baseboards);  
 ❖ For unassisted housing, and for child-occupied facilities, EPA's minor repair and maintenance activities threshold of 6 ft<sup>2</sup> or less per room; or 20 ft<sup>2</sup> or less for exterior activities; provided that no prohibited or restricted work practices were used and no window replacement or demolition of painted surface areas is to be done.  
<sup>3</sup> Common causes of paint deterioration are: moisture (indicate source if apparent), mildew, friction or abrasion, impact, damaged or deteriorated substrate, and severe heat.  
<sup>4</sup> If paint testing results are obtained on site, use this column to record the result. If a paint chip sample is sent to the laboratory, use this column to record the sample number (or other unique identifier) as a reference to another record containing the sampling data and laboratory results.





66 Atoah Road  
Robbinsville, NC

Drawn By: BAG Not To Scale