CHEROKEE NATION
Environmental Programs

LEAD-BASED PAINT INSPECTION & RISK ASSESSMENT REPORT

Conducted At:

Name: Rosaline Sparks
Address: 222 N Smith St
City State Zip: Vinita, OK 74301
Coordinates: 36.6421, -95.1592
Built in: 1935

Prepared For:

HACN Housing Rehabilitation - George Hubbard
Using ODEQ, EPA and CN Work Practice Standards
Established in 40 CFR 745-227

Inspected By:

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OKRASR13822, CNRASR00037

Cherokee Nation Environmental Programs
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Cherokee Nation Firm: CNFIRM00001

Report Date: June 3, 2024

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1.0 EXECUTIVE SUMMARY

A lead based paint inspection was conducted at the Rosaline Sparks site on June 3, 2024 as requested by the Cherokee Nation Housing Rehabilitation Department. The inspection **confirmed the presence of lead** in amounts greater than or equal to 1.0 mg/cm^2 in paint, using the inspection protocol in Chapter 7 of the U.S. Department of Housing and Urban Development's (HUD) Guidelines for the Evaluation of Control of Lead-Based Paint Hazards in Housing (2012). A Risk Assessment was performed to fulfill the requirements for a federally assisted rehabilitation.

The full inspection report can be found in Appendix A (XRF Field Data Sheets). Building components that were unable to be tested with an XRF and are assumed positive include the following:

Exterior Siding (Wrapped in Vinyl)

The following is a summary of the survey findings for the subject property:

Interior Lead-Based Paint
Dining/Kitchen Wall, Wood Side A
Stairwell Door & Door Casing, Wood Side A

Exterior Lead-Based Paint
Porch Ceiling, Wood Side A
Porch Beam, Wood Side A

Deteriorated Lead-Based Paint
(Lead-Based Paint Hazards)
Exterior Porch Ceiling, Wood Side A
Exterior Porch Beam, Wood Side A
Interior Stairwell Door & Casing, Wood Side A

Lead in Dust Hazards
Kitchen Floor
Dining Rm Window Trough
Laundry Rm Floor
Bathroom Floor
Bedroom 1 Window Sill

Lead in Soil Hazards
No lead in soil hazards were identified.

This executive summary has been prepared for the convenience of the users of this report. This summary does not contain all the information presented in this report and, therefore, the entire report should be read to assure all pertinent information is transmitted.

2.0 DISCLOSURE

A copy of this report or a summary of this report must be provided to new lessees (tenants) and purchasers of the 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 must also be provided to new purchasers

and it must be made available to new tenants. Property owners (leasers) and sellers are also required to distribute an educational pamphlet approved by the US Environmental Protection Agency (EPA) 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 lead-based paint hazards

3.0 INSPECTION/ RISK ASSESSMENT METHODOLOGY

3.1 SURFACE-BY-SURFACE INSPECTION METHODOLOGY

A surface-by-surface lead-based paint inspection was performed to identify interior and exterior building components finished with lead-based paint. The inspection was performed inside the residence and on exterior surfaces of the residence using a portable X-Ray Fluorescence Analyzer (XRF). The inspection was limited to accessible painted and/or varnished surfaces. All substrates within inaccessible rooms are assumed positive for lead-based paint until access is available to prove otherwise.

The inspection was conducted in accordance with the EPA's work practice standards for conducting lead-based paint activities (40 CFR 745.227), HUD's Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (Guidelines) with the 2012 revisions. Samples were collected to represent component types; therefore, it should be assumed that similar component types in the rest of that room or room equivalent also contain lead-based paint. When standing in any four-sided room facing side A, which coincides with the front of the dwelling, side B will be to the right, side C will be to the rear, and side D will be to the left (clockwise from side A).

When evaluating this report it is assumed that, according to Chapter 7 HUD Guidelines, if one testing combination (i.e. window, door) is positive for lead in an interior or exterior room equivalent, all other similar testing combinations in those areas are assumed to be positive. The same is true for negative readings.

3.2 X-RAY FLUORESCENCE ANALYZER LEAD DETECTOR

The sampling strategy utilized to determine the presence of lead-based paint adheres to the EPA Performance Characteristic Sheet for the particular XRF instrument used, as well as the manufacturers' modifications and recommendations. The Viken PB200i lead x-ray fluorescence analyzer (Serial Number: 2312) was used for detection of building components finished with lead-based paint. The instrument was manufactured by Viken Detection, 21 North Avenue, Burlington, MA 01803. The radioactive source is cobalt-57 and was last resourced on August 26, 2021.

Samples may be classified as positive or negative. Positive results indicate lead in quantities greater than 1.0 mg/cm2 and are considered lead-based paint. Negative results indicate lead in quantities less than 1.0 mg/cm2 and are not considered lead-based paint.

3.3 RISK ASSESSMENT METHODOLOGY

The lead-based paint risk assessment was performed to determine if the lead-based paint present in the residence presents an immediate hazard. This was accomplished through combining measurements of lead in dust, surface-by-surface paint analysis, visual assessment of the residence, assessment of paint

condition, and by collecting maintenance and management data to identify and address lead-based paint hazards.

The risk assessment was performed in accordance with the EPA's work practice standards for conducting lead-based paint activities (40 CFR 745.227), HUD's Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (Guidelines) with the 2012 revisions.

3.4 DESCRIPTION OF PAINT CONDITION HAZARD RANKINGS

The paint condition is placed into one of two categories using the risk assessor's professional judgment. These categories are intact or deteriorated. Type of deterioration may also be noted on surfaces in deteriorated condition. Based on the approximate surface area of deteriorated paint, the risk assessor then assesses the paint condition as intact or deteriorated. These conditions indicate the potential for lead hazards associated with paint condition and lead in household dust.

Hazard ranking protocol was performed in accordance with the HUD Guidelines for Evaluation and Control of Lead-Based Paint Hazards in Housing, dated July 2012, Chapter 5: Risk Assessment and Reevaluation; Identification of Deteriorated Paint (Form 5.2). This information is summarized below.

Deteriorated

EPA regulations define deteriorated paint 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"(40 CFR 745.63).

3.5 LABORATORY ANALYSIS

Laboratory analysis of dust wipe/soil samples were performed by QuanTem Laboratories (NLLAP 101352), 2033 Heritage Park Drive, Oklahoma City, OK 73120 Phone: 405-755-7272. Laboratory analysis of the dust wipes and soil samples are analyzed based on the EPA SW846-7420/ HUD – Flame Atomic Absorption.

4.0 DESCRIPTION OF RESULTS

This is a report of an X-ray Fluorescence (XRF) inspection and risk assessment to determine if lead-based paint exists in the readily accessible areas of this residence and tested components. The presence or absence of lead-based paint only applies to surfaces tested or assessed on the date of the field visit. According to HUD/EPA Guidelines, paint with concentrations of lead that exceed 1.0 mg/cm2 must be considered a lead-based paint (LBP). However, detectable lead in quantities less than 1.0 mg/cm2 may contribute to the development of lead dust hazards even though it is not considered a lead-based paint hazard.

4.1 LBP INSPECTION

Lead based paint was found on both the interior and exterior of the site. The positive readings are shown in the following table. The full report with all readings are in Appendix 1.

Reading #	Pb	Units	Room	Structure	Member	Substrate	Wall	Condition
4	1.7	mg/cm2	Porch	Room	Ceiling	Wood1	A	Deteriorated
5	2.2	mg/cm2	Porch	Beam		Wood2	A	Deteriorated
45	1.4	mg/cm2	Dining/Kitchen	Room	Wall	Wood20	A	Intact
73	2.4	mg/cm2	Stairwell	Door		Wood5	A	Deteriorated
74	1.5	mg/cm2	Stairwell	Door	Casing	Wood6	A	Deteriorated

4.2 LBP RISK ASSESSMENT

Lead-based paint hazards and dust hazards were identified during the survey.

The lead hazards are:

- **Exterior Porch Ceiling, Side A**
- **Exterior Porch Beam, Side A**
- **Stairwell Door & Casing, Side A**

Lead in Dust Hazards

- **Kitchen Floor**
- **Dining Rm Window Trough**
- **Laundry Rm Floor**
- **Bathroom Floor**
- **Bedroom 1 Window Sill**

Lead in Soil Hazards

- **N/A**

4.3 RESIDENT QUESTIONNAIRE FORM 5.0

A resident questionnaire was completed as part of the Assessment, to help the identify particular use patterns, which may be associated with potential LBP hazards, such as opening and closing windows painted with LBP. The answers to the questionnaire were obtained during an interview with the occupants. Following is a summary of the information obtained during the interview.

Children in the Household:	None
Children's bed locations:	-
Children's eating locations:	-
Primary interior play area(s):	-
Primary exterior play area(s):	-
Pets:	-
Blood lead testing history:	-
Observed chewed surfaces:	-
Women of child bearing age:	0
Previous lead testing:	None
Frequently used entrances:	Front Door
Frequently opened windows:	None

Structure Cooling Method:	Window Unit in Living Room & Bedroom 1
Gardening –type and location:	None
Plans for landscaping:	None
Cleaning regiment:	Weekly
Cleaning Methods:	Mopping, sweeping, dusting, vacuuming
Recent completed renovations:	None
Demolition debris on site:	None
Resident with work lead exposure:	None
Planned Renovations:	A scope of work document for this residence is included in Appendix C.

4.4 BUILDING CONDITION FORM 5.1

Condition	Yes	No	Comments
Roof is missing parts of surfaces (tiles, boards, shakes, etc.)	X		
Roof has holes or large cracks	X		
Gutters or downspouts broken, missing.	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 painting.		X	
Exterior siding has missing boards or shingles		X	
Water stains on interior walls or ceilings	X		
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	5	7	

*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)

Notes (including other conditions of concern):

4.5 DUST WIPE SAMPLE ANALYSIS

Dust wipe samples were collected in an effort to help determine the levels of lead-containing dust on the interior windowsills and floors. The following tables note the presence or absence of lead hazards in dust per the EPA risk assessment and clearance standards. Please refer to Appendix B for detailed analytical reports. The presence of these hazards indicates that sample results exceed the following EPA criteria:

- 10 ug/ft2 for floors, including carpeted floors
- 100 ug/ft2 for interior window sills
- 100 ug/ft2 for interior window troughs

The following table indicates the sample number, location, surface type, lead concentration, and presence or absence of lead dust hazards for dust wipe samples collected during this LBP Risk Assessment:

Dust Wipe Sample Analysis

Sample #	Location	Surface Types	Concentration (Micrograms/ft^2)	Lead Hazard
01	Front Porch	Floor (concrete)	72	NO
03	Kitchen	Floor	46	YES
04	Dining Rm	Window Trough	250	YES
05	Laundry Rm	Floor	78	YES
06	Laundry Rm	Window Sill	94	NO
07	Bathroom	Floor	61	YES
08	Bedroom 1	Window Sill	100	YES

4.6 SOIL SAMPLE ANALYSIS

The EPA has established lead hazard standards for lead in soil under TSCA Section 403 (Residential Lead Hazards). Please refer to Appendix B for detailed analytical reports. The following level of lead in soil should be considered hazardous and may result in excessive lead exposure and elevated blood lead levels:

- 400 milligrams per kilogram (mg/Kg) in children's play areas with bare residential soil (e.g., sandboxes, gardens)
- 1,200 mg/Kg (average) in bare soil for the remainder of the yard.

The following table indicates the sample number, location, surface type, lead concentration, and presence or absence of lead soil hazards for soil samples collected during this LBP Risk Assessment:

Soil Sample Analysis				
Sample #	**Location**	**Bare or Covered**	**Concentration (Micrograms/ft^2)**	**Lead Hazard**
02	Dripline	Bare	<40	NO

5.0 RECOMMENDATIONS

5.1 DETERIORATED LEAD-BASED PAINT

Room or Exterior Location	Component	Type of Hazard	Approximate Area or Length	Acceptable Hazard Control Options	
				Interim	Abatement
Exterior Side A	Porch Ceiling	Paint		Wet scrape/Repaint	Replace, Encapsulate or Enclose
Exterior Side A	Porch Beam	Paint		Wet scrape/Repaint	Replace, Encapsulate or Enclose
Stairwell	Door & Casing	Paint		Wet scrape/Repaint	Replace

5.2 LEAD DUST CONTROL OPTIONS

Room	Surface	Acceptable Hazard Control Method
Kitchen	Floor	Hepa-Vac/Wet Wipe/Hepa-Vac
Dining Rm	Window Trough	Hepa-Vac/Wet Wipe/Hepa-Vac
Laundry Rm	Floor	Hepa-Vac/Wet Wipe/Hepa-Vac
Bathroom	Floor	Hepa-Vac/Wet Wipe/Hepa-Vac
Bedroom 1	Window Sill	Hepa-Vac/Wet Wipe/Hepa-Vac

5.3 LEAD IN SOIL

Type Of Area	Location	Acceptable Hazard Control Options	
N/A			

6.0 RE-EVALUATION AND MONITORING SCHEDULE

Each of these treatments will need to be reexamined periodically to make certain that they remain effective and to ensure that new lead-based paint hazards do not appear. The interim controls shown above are less expensive initially, but they may be more expensive in the end since they need to be reevaluated more frequently. The replacement and paint removal methods are more expensive initially, but do not require any reevaluation.

The owner should monitor the condition of the paint at least annually or if there is some indication, that paint might be failing. A professional reevaluation is also needed. The standard schedule for reevaluation the dwelling is shown above.

Re-evaluation: Standard Re-evaluation Schedule 3 contained in the HUD Guidelines applies to this property, since one of the rooms had a dust lead level greater than the standard. Therefore, the dwelling should be reevaluated in June 2025 (12 months from now). If no lead-based paint hazards are identified at that time, another reevaluation should be conducted in June 2026 (2 years later). If no lead-based paint hazards are identified at that time, no further reevaluations are needed. However, since lead-based paint may be present in the dwelling, the owner should monitor the condition of all painted surfaces at least annually or whenever other information indicates a potential problem.

APPENDIX A: XRF Field Data Sheets & Floor Plan

Viken Detection 2312 Pb200i-5.3.1
Pb200i XRF Lead Paint Analyzer

Reading #	Pb	Units	Pb Error	Result	Secs	Date	Time	Room	Structure	Member	Substrate	Wall	Condition
1	1.17	mg/cm2	0.07		20.18	5/21/2024	12:44:52	Calibration					
2	1.23	mg/cm2	0.07		20.04	5/21/2024	12:45:44	Calibration					
3	1.15	mg/cm2	0.07		20.08	5/21/2024	12:46:36	Calibration					
4	1.7	mg/cm2	0.2	Positive	2	5/21/2024	14:21:47	Porch	Room	Ceiling	Wood1	A	Deteriorated
5	2.2	mg/cm2	0.3	Positive	2	5/21/2024	14:22:42	Porch	Beam		Wood2	A	Deteriorated
6	0.3	mg/cm2	0.3	Negative	2	5/21/2024	14:23:21	Porch	Column		Metal1	A	Deteriorated
7	0.3	mg/cm2	0.2	Negative	2	5/21/2024	14:23:51	Exterior	Door		Wood1	A	Intact
8	0.3	mg/cm2	0.3	Negative	2	5/21/2024	14:23:59	Exterior	Door	Jamb	Wood2	A	Intact
9	0.2	mg/cm2	0.2	Negative	2	5/21/2024	14:25:14	Exterior	Door		Wood3	C	Intact
10	0.1	mg/cm2	0.2	Negative	2	5/21/2024	14:25:23	Exterior	Door	Jamb	Wood4	C	Intact
11	0.1	mg/cm2	0.2	Negative	2	5/21/2024	14:25:57	Exterior	Door		Wood5	C	Intact
12	0.2	mg/cm2	0.2	Negative	2	5/21/2024	14:26:05	Exterior	Door	Jamb	Wood6	C	Intact
13	0.8	mg/cm2	0.2	Negative	5	5/21/2024	14:28:30	Garage	Room	Wall	Concrete1	A	Deteriorated
14	0.6	mg/cm2	0.2	Negative	2	5/21/2024	14:29:06	Garage	Roof Deck		Wood1	A	Deteriorated
15	0	mg/cm2	0.2	Negative	2	5/21/2024	14:29:15	Garage	Rafter Tail		Wood2	A	Deteriorated
16	0.4	mg/cm2	0.2	Negative	2	5/21/2024	14:29:34	Garage	Door		Metal1	A	Deteriorated
17	0.9	mg/cm2	0.2	Negative	5	5/21/2024	14:29:42	Garage	Door	Casing	Metal2	A	Deteriorated
18	0.1	mg/cm2	0.2	Negative	2	5/21/2024	14:31:03	Foyer	Room	Wall	Wood1	A	Intact
19	0.1	mg/cm2	0.3	Negative	2	5/21/2024	14:31:13	Foyer	Room	Wall	Wood2	B	Intact
20	0	mg/cm2	0.3	Negative	2	5/21/2024	14:31:24	Foyer	Room	Wall	Wood3	C	Intact
21	0.1	mg/cm2	0.3	Negative	2	5/21/2024	14:31:31	Foyer	Room	Wall	Wood4	D	Intact
22	0.2	mg/cm2	0.2	Negative	3	5/21/2024	14:31:41	Foyer	Room	Ceiling	Drywall		Intact
23	0.1	mg/cm2	0.2	Negative	2	5/21/2024	14:36:32	Foyer	Room	Baseboard	Wood1	A	Intact
24	0.2	mg/cm2	0.2	Negative	2	5/21/2024	14:38:24	Foyer	Door		Wood2	A	Intact
25	0.2	mg/cm2	0.2	Negative	2	5/21/2024	14:38:33	Foyer	Door	Casing	Wood3	A	Intact
26	0	mg/cm2	0.2	Negative	2	5/21/2024	14:39:48	Living Room	Room	Wall	Wood1	A	Intact
27	0.1	mg/cm2	0.2	Negative	2	5/21/2024	14:40:04	Living Room	Room	Wall	Wood2	B	Intact
28	0.1	mg/cm2	0.3	Negative	2	5/21/2024	14:40:21	Living Room	Room	Wall	Wood3	C	Intact
29	0.1	mg/cm2	0.3	Negative	2	5/21/2024	14:40:32	Living Room	Room	Wall	Wood4	D	Intact

30	0.2 mg/cm2	0.2 Negative	2	5/21/2024	14:41:05	Living Room	Room	Ceiling	Wood5		Intact
31	0.1 mg/cm2	0.2 Negative	2	5/21/2024	14:41:43	Living Room	Room	Baseboard	Wood6	D	Intact
32	0.1 mg/cm2	0.2 Negative	2	5/21/2024	14:43:12	Living Room	Window	Shutter	Wood7	B	Intact
33	0.2 mg/cm2	0.2 Negative	2	5/21/2024	14:43:40	Living Room	Window	Sill	Wood8	B	Intact
34	0.1 mg/cm2	0.2 Negative	2	5/21/2024	14:44:58	Living Room	Door	Casing	Wood9	D	Intact
35	0.3 mg/cm2	0.2 Negative	2	5/21/2024	14:47:36	Bathroom	Room	Wall	Wood10	A	Intact
36	0.2 mg/cm2	0.3 Negative	2	5/21/2024	14:47:47	Bathroom	Room	Wall	Wood11	B	Intact
37	0.2 mg/cm2	0.2 Negative	2	5/21/2024	14:47:55	Bathroom	Room	Wall	Wood12	C	Intact
38	0.3 mg/cm2	0.2 Negative	2	5/21/2024	14:48:09	Bathroom	Room	Wall	Wood13	D	Intact
39	0.3 mg/cm2	0.3 Negative	2	5/21/2024	14:48:19	Bathroom	Room	Ceiling	Wood14		Intact
40	0.2 mg/cm2	0.2 Negative	2	5/21/2024	14:48:39	Bathroom	Room	Baseboard	Wood15	D	Intact
41	0.2 mg/cm2	0.2 Negative	2	5/21/2024	14:49:04	Bathroom	Cabinets	Door	Wood16	C	Intact
42	0.2 mg/cm2	0.2 Negative	2	5/21/2024	14:49:13	Bathroom	Cabinets	Frame	Wood17	C	Intact
43	0.3 mg/cm2	0.2 Negative	2	5/21/2024	14:49:45	Bathroom	Door		Wood18	B	Intact
44	0.1 mg/cm2	0.2 Negative	2	5/21/2024	14:49:54	Bathroom	Door	Casing	Wood19	B	Intact
45	1.4 mg/cm2	0.2 Positive	2	5/21/2024	14:50:50	Dining/Kitchen	Room	Wall	Wood20	A	Intact
46	0.8 mg/cm2	0.2 Negative	5	5/21/2024	14:51:06	Dining/Kitchen	Room	Wall	Wood21	B	Intact
47	0.8 mg/cm2	0.2 Negative	5	5/21/2024	14:51:21	Dining/Kitchen	Room	Wall	Wood22	C	Intact
48	0.2 mg/cm2	0.2 Negative	2	5/21/2024	14:51:55	Dining/Kitchen	Room	Wall	Wood23	D	Intact
49	0.2 mg/cm2	0.2 Negative	2	5/21/2024	14:52:55	Dining/Kitchen	Room	Ceiling	Wood1		Intact
50	0.4 mg/cm2	0.2 Negative	2	5/21/2024	14:53:15	Dining/Kitchen	Room	Baseboard	Wood2	A	Intact
51	0.8 mg/cm2	0.2 Negative	5	5/21/2024	14:55:09	Dining/Kitchen	Window	Sill	Wood3	B	Intact
52	0.2 mg/cm2	0.2 Negative	2	5/21/2024	14:55:58	Dining/Kitchen	Cabinets	Door	Wood4	D	Intact
53	0.1 mg/cm2	0.2 Negative	2	5/21/2024	14:56:12	Dining/Kitchen	Cabinets	Frame	Wood5	D	Intact
54	0.1 mg/cm2	0.2 Negative	2	5/21/2024	14:57:44	Dining/Kitchen	Door		Wood6	C	Intact
55	0 mg/cm2	0.2 Negative	2	5/21/2024	14:57:53	Dining/Kitchen	Door	Casing	Wood7	C	Intact
56	0.2 mg/cm2	0.2 Negative	2	5/21/2024	14:58:41	Storage Room	Room	Wall	Wood8	A	Intact
57	0.1 mg/cm2	0.3 Negative	2	5/21/2024	14:58:51	Storage Room	Room	Wall	Wood9	B	Intact
58	0.2 mg/cm2	0.3 Negative	2	5/21/2024	14:59:00	Storage Room	Room	Wall	Wood10	C	Intact
59	0.2 mg/cm2	0.2 Negative	2	5/21/2024	14:59:08	Storage Room	Room	Wall	Wood11	D	Intact
60	0.1 mg/cm2	0.2 Negative	2	5/21/2024	14:59:26	Storage Room	Room	Ceiling	Drywall1		Intact
61	0.2 mg/cm2	0.3 Negative	2	5/21/2024	15:00:00	Storage Room	Window	Sill	Wood1	C	Intact
62	0.1 mg/cm2	0.2 Negative	2	5/21/2024	15:00:20	Storage Room	Door		Wood2	C	Intact
63	0.3 mg/cm2	0.3 Negative	2	5/21/2024	15:00:28	Storage Room	Door	Casing	Wood3	C	Intact

64	0.2	mg/cm2	0.2	Negative	2	5/21/2024	15:01:14	Bathroom 2	Room	Wall	Wood4	A	Intact
65	0.1	mg/cm2	0.3	Negative	2	5/21/2024	15:01:24	Bathroom 2	Room	Wall	Wood5	B	Intact
66	0.3	mg/cm2	0.2	Negative	2	5/21/2024	15:01:33	Bathroom 2	Room	Wall	Wood6	C	Intact
67	0.1	mg/cm2	0.3	Negative	2	5/21/2024	15:01:43	Bathroom 2	Room	Wall	Wood7	D	Intact
68	0.2	mg/cm2	0.2	Negative	2	5/21/2024	15:02:05	Bathroom 2	Room	Ceiling	Drywall1		Intact
69	0.2	mg/cm2	0.2	Negative	2	5/21/2024	15:02:27	Bathroom 2	Room	Baseboard	Wood1	B	Intact
70	0.1	mg/cm2	0.3	Negative	2	5/21/2024	15:03:10	Bathroom 2	Cabinets	Frame	Wood2	C	Intact
71	0.3	mg/cm2	0.2	Negative	2	5/21/2024	15:03:43	Bathroom 2	Door		Wood3	B	Intact
72	0.2	mg/cm2	0.2	Negative	2	5/21/2024	15:03:52	Bathroom 2	Door	Casing	Wood4	B	Intact
73	2.4	mg/cm2	0.2	Positive	2	5/21/2024	15:05:57	Stairwell	Door		Wood5	A	Deteriorated
74	1.5	mg/cm2	0.2	Positive	2	5/21/2024	15:06:07	Stairwell	Door	Casing	Wood6	A	Deteriorated
75	0.1	mg/cm2	0.2	Negative	2	5/21/2024	15:08:31	Bedroom 1	Room	Wall	Wood7	A	Intact
76	0.9	mg/cm2	0.2	Negative	5	5/21/2024	15:08:42	Bedroom 1	Room	Wall	Wood8	B	Intact
77	0.2	mg/cm2	0.2	Negative	2	5/21/2024	15:09:00	Bedroom 1	Room	Wall	Wood9	C	Intact
78	0.2	mg/cm2	0.2	Negative	2	5/21/2024	15:09:10	Bedroom 1	Room	Wall	Wood10	D	Intact
79	0.1	mg/cm2	0.2	Negative	2	5/21/2024	15:09:34	Bedroom 1	Room	Ceiling	Wood1		Intact
80	0.2	mg/cm2	0.2	Negative	2	5/21/2024	15:09:55	Bedroom 1	Room	Baseboard	Wood2	A	Intact
81	0.1	mg/cm2	0.2	Negative	2	5/21/2024	15:10:13	Bedroom 1	Window	Sill	Wood3	D	Intact
82	0.3	mg/cm2	0.2	Negative	2	5/21/2024	15:11:06	Bedroom 1	Door		Wood4	A	Intact
83	0.1	mg/cm2	0.2	Negative	2	5/21/2024	15:11:15	Bedroom 1	Door	Casing	Wood5	A	Intact
84	0.2	mg/cm2	0.2	Negative	2	5/21/2024	15:11:57	Bedroom 2	Room	Wall	Wood6	A	Intact
85	0.1	mg/cm2	0.2	Negative	2	5/21/2024	15:12:08	Bedroom 2	Room	Wall	Wood7	B	Intact
86	0.1	mg/cm2	0.3	Negative	2	5/21/2024	15:12:24	Bedroom 2	Room	Wall	Wood8	C	Intact
87	0	mg/cm2	0.2	Negative	2	5/21/2024	15:12:36	Bedroom 2	Room	Wall	Wood9	D	Intact
88	0	mg/cm2	0.2	Negative	2	5/21/2024	15:12:54	Bedroom 2	Room	Ceiling	Wood10		Intact
89	0.6	mg/cm2	0.3	Negative	2	5/21/2024	15:13:13	Bedroom 2	Room	Baseboard	Wood11	B	Intact
90	0.6	mg/cm2	0.2	Negative	2	5/21/2024	15:13:31	Bedroom 2	Window	Sill	Wood12	D	Intact
91	0.1	mg/cm2	0.2	Negative	2	5/21/2024	15:14:02	Bedroom 2	Door		Wood13	C	Intact
92	0.1	mg/cm2	0.2	Negative	2	5/21/2024	15:14:11	Bedroom 2	Door	Casing	Wood14	C	Intact
93	0.95	mg/cm2	0.07		20.23	5/21/2024	15:20:10	Calibration					
94	0.98	mg/cm2	0.07		20.11	5/21/2024	15:21:01	Calibration					
95	0.97	mg/cm2	0.07		20.24	5/21/2024	15:21:52	Calibration					

* Exterior Wrapped in Vinyl Siding

APPENDIX B: DUST WIPE & SOIL ANALYSIS

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Environmental Chemistry Analysis Report

QuanTEM Set ID: 369243
Date Received: 05/23/24
Received By: Baylie Longstreth
Date Sampled:
Time Sampled:
Analyst:
Date of Report: 05/28/24

AIHA LAP, LLC: 101352

Client: Cherokee Nation Environmental Programs
Logan Girty
PO Box 948
Tahlequah, OK 74464

Acct. No.: C162

Project: Rosaline Sparks
Location: Vinita
Project No.: N/A

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	01	Wipe	Lead	72	5	ug/sq. Ft.	05/24/24 14:00	NIOSH 7082
002	02	Soil	Lead	<40	40	mg/kg	05/28/24 13:30	Soil EPA 7000B (1)
003	03	Wipe	Lead	46	5	ug/sq. Ft.	05/24/24 14:00	NIOSH 7082
004	04	Wipe	Lead	250	8.3	ug/sq. Ft.	05/24/24 14:00	NIOSH 7082
005	05	Wipe	Lead	78	5	ug/sq. Ft.	05/24/24 14:00	NIOSH 7082
006	06	Wipe	Lead	94	6.5	ug/sq. Ft.	05/24/24 14:00	NIOSH 7082
007	07	Wipe	Lead	61	5	ug/sq. Ft.	05/24/24 14:00	NIOSH 7082
008	08	Wipe	Lead	100	6.3	ug/sq. Ft.	05/24/24 14:00	NIOSH 7082

Authorized Signature: _____

Eric Caves, Chemistry Technical Manager

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations. Customer provided data such as volumes, areas, etc., cannot be verified by QuanTEM Laboratories, LLC.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report
QAQC Results

QA ID: 21129 **Date:** 5/24/2024 **Lab Number:** 369243
Test: Lead **Matrix:** Wipe **Approved By:** Eric Caves
Date Approved: 5/24/2024

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
FCV	2.2	2.55	2.8
RLVS	0.05	0.12	0.15
ICV	0.9	0.96	1.1

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W	0.000	2.428	2.640	108.7	2.460	101.3	7.1

Authorized Signature: _____

Eric Caves, Chemistry Technical Manager

Supplemental Report
QAQC Results

QA ID: 21132 **Date:** 5/28/2024 **Lab Number:** 369243
Test: Lead **Matrix:** Soil **Approved By:** Eric Caves
Date Approved: 5/28/2024

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	2.2	2.43	2.8
FCV	2.2	2.3	2.8
RLVS	0.08	0.15	0.24
ICV	0.9	1.04	1.1

Duplicate Data:

Sample Number	Result	Duplicate	% RPD
369243-002	0.000	0.000	#Num!

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
369243-002	0.000	2.000	1.820	91.0			
LCS-S	0.000	2.428	2.350	96.8	2.540	104.6	7.8
LCS-S2	0.000	2.428	2.470	101.7	2.470	101.7	0.0

Authorized Signature: _____

Eric Caves, Chemistry Technical Manager

LEAD CHAIN OF CUSTODY

QuanTEM LABORATORIES
www.QuanTEM.com
2033 Heritage Park Drive, Oklahoma City, OK 73120-7502
(800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

For Lab Use Only	
Lab No.	369243
Accept	Reject

Contact Information			
Company:	Cherokee Nation Environmental Programs	Phone:	(918) 453-5000
Contact:	Logan Girty	Cell Phone:	(918) 772-8346
Account #:	C 162	E-mail:	logan-girty@cherokee.org
SAMPLED BY: Name:	Logan Girty	Date:	05/21/2024

Project Information	
Project Name:	Rosaline Sparks
Project Location:	Vinita
Project ID:	
P.O. Number:	874812

Report Results (☑ one box)	
○	**QuanTEM Website**
◉	Email logan-girty@cherokee.org
○	Other _____

RELINQUISHED BY	DATE & TIME	VIA	RECEIVED BY	DATE & TIME
Logan E.	5/22/2024	FedEx		5/23/24 10:00
	9 AM			

REQUESTED SERVICES (Please ☑ the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume or Area	Flame Atomic Absorption EPA 7000B: Paint Chips (○ wt% ◉ ppm ○ mg/cm²)	Bulk (mg/kg)	Soil (mg/kg)	NIOSH 7082: Wipes (ug/ft²)	Air (µg /m³)	Other Analysis: TCLP - Pb	TCLP - RCRA 8	RCRA 8	Other
1	01	Porch Floor	144 sq in				✓					
2	02	Composite Soil				✓						
3	03	Kitchen Floor	144 sq in				✓					
4	04	Dining Rm Window Trough	87 sq in				✓					
5	05	Laundry Rm Floor	144 sq in				✓					
6	06	Laundry Rm Window Sill	110 sq in				✓					
7	07	Bathroom Floor	144 sq in				✓					
8	08	Bedroom 1 Window Sill	115 sq in				✓					
9												
10												
11												

TURNAROUND TIME	
○	Same Day
○	24 - Hour
◉	3 - Day
○	5 - Day

SATURDAY FEDEX SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"
Please Note - UPS and USPS are NOT available for Saturday Delivery

APPENDIX C: SCOPE OF WORK/REQUEST