

CHEROKEE NATION Environmental Programs

LEAD-BASED PAINT INSPECTION & RISK ASSESSMENT REPORT

Conducted At:

Name: Cathy Patton

Address: 2704 E Oklahoma Ave City State Zip: Tulsa, OK 74110 Coordinates: 36.1752, -95.9509

Built in: 1946

Prepared For:

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

Inspected By:

Logan Girty

OKRASR13822, CNRASR00037

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Oklahoma Firm: OKFIRM11198

Cherokee Nation Firm: CNFIRM00001

Report Date: October 27, 2023

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1.0 EXECUTIVE SUMMARY

A lead based paint inspection was conducted at the Cathy Patton site on October 19, 2023 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/cm² 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:

* All Exterior Walls Vinyl Wrapped

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

Interior Lead-Based Paint

None identified

Exterior Lead-Based Paint

Door Jamb, Side A&C Porch Ceiling, Side A Windows (All Sides) Window Sill, Side D Window Trim, Side C&D Soffit (All Sides)

Deteriorated Lead-Based Paint (Lead-Based Paint Hazards)

Ext. Door Jamb, Side A&C
Porch Ceiling, Side A
Ext. Windows (All Sides)
Ext. Window Sill, Side D
Ext. Window Trim, Side C&D
Soffit (All Sides)

Lead in Dust Hazards

Bedroom 1 Window Trough Side A

Lead in Soil Hazards

None 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 15, 2023.

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 the 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
59	1.4	mg/cm2	Exterior	Door	Jamb	Wood9	А	Cracking
60	5.4	mg/cm2	Exterior	Porch	Ceiling	Wood10	А	Peeling
62	1.9	mg/cm2	Exterior	Window		Wood12	Α	Cracking
67	1.9	mg/cm2	Exterior	Window		Wood17	В	Cracking
69	1	mg/cm2	Exterior	Window		Wood19	С	Cracking
71	3.6	mg/cm2	Exterior	Window	Trim	Wood21	С	Cracking
75	2.9	mg/cm2	Exterior	Window		Wood25	D	Cracking
76	3.9	mg/cm2	Exterior	Window	Sill	Wood26	D	Cracking
77	6.3	mg/cm2	Exterior	Window	Trim	Wood27	D	Cracking
79	3.1	mg/cm2	Garage	Door	Jamb	Wood29	С	Peeling
80	4.7	mg/cm2	Exterior	Soffit		Wood30	D	Peeling

4.2 LBP RISK ASSESSMENT

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

The lead hazards are:

- Ext. Door Jamb, Side A&C
- Porch Ceiling, Side A
- Ext. Windows (All Sides)
- Ext. Window Sill, Side D
- Ext. Window Trim, Side C&D
- Soffit (All Sides)

Lead in Dust Hazards

• Bedroom 1 Window Trough Side A

Lead in Soil Hazards

None

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.)		х	
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		х	
Two or more windows or doors broken, missing, or boarded up	Х		
Porch or steps have major elements broken, missing, or boarded up.		X	
Foundation has major cracks, missing material, structure leans, or visibly unsound		Х	
Total Number	2	10	

*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/ft²)	Lead Hazard
01	Living Room	Floor	7.4	NO
02	Porch A Side	Floor (conc)	7.1	NO
03	Bedroom 1	Window Trough	2,500	YES
05	Kitchen	Floor	9.9	NO
06	Kitchen	Window Sill	<11	NO

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 Sampl	e Analysis			
Sample #	Location	Bare or Covered	Concentration (Micrograms/ft²)	Lead Hazard
04	Dripline	Bare	340	NO

5.0 RECOMMENDATIONS

5.1 DETERIORATED LEAD-BASED PAINT

Room or Exterior	Component	Type of	Approximate Area or	Acceptable Hazard Control Options								
Location		Hazard	Length	Interim	Abatement							
Exterior Side A&C	Door Jamb	Paint		Wet scrape/Repaint	Encapsulate or Replace							
A Side Porch	Ceiling	Paint		Wet scrape/Repaint	Encapsulate, Enclose or Replace							
Exterior (All Sides)	Window	Paint		Wet scrape/Repaint	Encapsulate or Replace							
Exterior Side D	Window Sill	Paint		Wet scrape/Repaint	Encapsulate or Replace							
Exterior Side C&D	Window Trim	Paint		Wet scrape/Repaint	Encapsulate, Enclose or Replace							
Exterior (All Sides)	Soffit	Paint		Wet scrape/Repaint	Encapsulate, Enclose or Replace							

5.2 LEAD DUST CONTROL OPTIONS

Room	Surface	Acceptable Hazard Control Method
Bedroom 1	Window Trough	Hepa-Vac/Wet Wipe/Hepa-Vac

5.3 LEAD IN SOIL

Type Of Area	Location	Acceptable Hazard Control Options
None		

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 Oct 2024 (12 months from now). If no lead-based paint hazards are identified at that time, another reevaluation should be conducted in Oct 2025 (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

Viken Detection Pb200i XRF Lead Paint Analyzer 2312

Pb200i-5.3.1

Condition				ct	t	t	t	ti	ti	t	t	Ħ	t	t	t	t	t	#	t	#	#	t	t	#	#	#	
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Mombor				Wall	Wall	Wall	Wall	Ceiling	Baseboard		Sill		Casing	Wall	Wall	Wall	Wall	Ceiling	Baseboard		Sill	Trim		Casing	Wall	Wall	
Structure Member	מומרומוב			Room	Room	Room	Room	Room	Room	Window	Window	Door	Door	Room	Room	Room	Room	Room	Room	Window	Window	Window	Door	Door	Room	Room	
Room	14:58:55 Calibration	14:59:34 Calibration	15:00:12 Calibration	Living Room Room	15:02:51 Living Room Room	15:03:08 Living Room Room	Living Room Room	15:03:35 Living Room Room	15:03:59 Living Room Room	15:04:56 Living Room Window	15:05:06 Living Room Window	15:05:26 Living Room Door	15:05:34 Living Room	15:06:30 Bedroom 1	15:06:40 Bedroom 1	15:06:51 Bedroom 1	15:07:09 Bedroom 1	15:07:24 Bedroom 1	15:07:47 Bedroom 1	15:08:17 Bedroom 1	15:08:25 Bedroom 1	15:08:34 Bedroom 1	15:08:59 Bedroom 1	15:09:16 Bedroom 1	15:10:13 Bathroom 1	15:10:21 Bathroom 1	
Time				15:02:33						15:04:56		15:05:26	15:05:34	15:06:30	15:06:40	15:06:51	15:07:09	15:07:24	15:07:47	15:08:17	15:08:25	15:08:34	15:08:59	15:09:16	15:10:13	15:10:21	
Date	10/19/2023		10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	
Spece	20.2	20.26	20.26	2	2	1	1	1	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	1	
Recult				0.2 Negative	0.2 Negative	0.3 Negative	0.3 Negative	0.3 Negative	0.2 Negative	0.2 Negative	0.2 Negative	0.2 Negative	0.2 Negative	0.2 Negative	0.3 Negative	0.2 Negative	0.3 Negative										
Ph Frror Result	0.07	0.07	0.07	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	
Units			1.07 mg/cm ²	L mg/cm2	0.3 mg/cm2	0.4 mg/cm2	3 mg/cm2	0.3 mg/cm2	0 mg/cm2	0.3 mg/cm2	0.1 mg/cm2	2 mg/cm2	2 mg/cm2	0.4 mg/cm2	0.3 mg/cm2	0.1 mg/cm2	2 mg/cm2	2 mg/cm2	0.3 mg/cm2	0.4 mg/cm2	l mg/cm2	l mg/cm2	0.2 mg/cm2	0 mg/cm2	0.6 mg/cm2	0.6 mg/cm2	
Ph	1.01	1.09	1.07	0.1	0.3	0.4	0.3	0.3	0		0.1	0.2	0.2	0.4	0.3		0.2	0.2			0.1	0.1	0.2	0	9.0	9.0	
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Drywall4	Drywall5	Wood1	Wood2	Wood3	Wood4	Wood5	Wood6	Drywall1	Drywall2	Drywall3	Drywall4	Drywall5	Wood1	Wood2	Wood3	Wood4	Wood5	Drywall1	Drywall2	Drywall3	Drywall4	Drywall5	Wood1	Wood2	Wood3	Wood4	Wood5	Wood6	Wood7	Wood8	Wood9	Wood10	Wood11
Wall	Ceiling		Sill	Door	Frame		Casing	Wall	Wall	Wall	Wall	Ceiling	Baseboard		Sill		Casing	Wall	Wall	Wall	Wall	Ceiling	Baseboard		Sill	Door	Frame		Casing		Jamb	Ceiling	Column
Room	Room	Window	Window	Cabinets	Cabinets	Door	Door	Room	Room	Room	Room	Room	Room	Window	Window	Door	Door	Room	Room	Room	Room	Room	Room	Window	Window	Cabinets	Cabinets	Door	Door	Door	Door	Porch	Porch
15:10:43 Bathroom 1	15:11:01 Bathroom 1	15:11:25 Bathroom 1	15:11:32 Bathroom 1	15:11:51 Bathroom 1	15:11:58 Bathroom 1	15:12:33 Bathroom 1	15:12:40 Bathroom 1	15:13:11 Bedroom 2	15:13:31 Bedroom 2	15:13:38 Bedroom 2	15:14:02 Bedroom 2	15:14:14 Bedroom 2	15:15:03 Bedroom 2	15:15:35 Bedroom 2	15:15:41 Bedroom 2	15:16:17 Bedroom 2	15:16:24 Bedroom 2	15:17:11 Kitchen	15:17:18 Kitchen	15:17:28 Kitchen	15:17:34 Kitchen	15:17:40 Kitchen	15:17:55 Kitchen	15:18:13 Kitchen	15:18:22 Kitchen	15:18:52 Kitchen	15:18:58 Kitchen	15:19:23 Kitchen	15:19:42 Kitchen	15:20:38 Exterior	15:20:45 Exterior	15:21:12 Exterior	15:21:31 Exterior
2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	1 10/19/2023	2 10/19/2023	2 10/19/2023	1 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023
	0.3 Negative	0.2 Negative	0.3 Negative	0.3 Negative	0.3 Negative	0.3 Negative	0.2 Negative	0.2 Negative	0.2 Negative	0.2 Negative	0.2 Negative	0.2 Negative	0.2 Negative	0.2 Negative	0.3 Negative	0.2 Negative	0.3 Positive	0.2 Positive	0.2 Negative														
0.5 mg/cm2	0.5 mg/cm2	0.2 mg/cm2	0.2 mg/cm2	0.2 mg/cm2	0 mg/cm2	0.2 mg/cm2	0.3 mg/cm2	0.4 mg/cm2	0.4 mg/cm2	0.3 mg/cm2	0.2 mg/cm2	0.3 mg/cm2	0.1 mg/cm2	0 mg/cm ²	0.2 mg/cm2	0.2 mg/cm2	0.2 mg/cm2	0.4 mg/cm2	0.6 mg/cm2	0.6 mg/cm2	0.5 mg/cm2	0.4 mg/cm2	0.1 mg/cm2	0.2 mg/cm2	0.1 mg/cm2	0.2 mg/cm2	0.3 mg/cm2	0.1 mg/cm2	0.2 mg/cm2	0.6 mg/cm2	1.4 mg/cm2	5.4 mg/cm2	0.1 mg/cm2
28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	20	51	52	53	54	55	99	57	28	59	09	61

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Wood12	Wood13	Wood14	Wood15	Wood16	Wood17	Wood18	Wood19	Wood20	Wood21	Wood22	Wood23	Wood24	Wood25	Wood26	Wood27	Wood28	Wood29	Wood30	Wood31			
	Sill	Trim		Casing		Sill		Sill	Trim		Jamb	Trim		Sill	Trim		Jamb					
Window	Window	Window	Door	Door	Window	Window	Window	Window	Window	Door	Door	Door	Window	Window	Window	Door	Door	Soffit	Fascia			
15:22:12 Exterior	15:22:26 Exterior	15:22:33 Exterior	15:23:10 Garage	15:23:18 Garage	15:24:11 Exterior	15:24:17 Exterior	15:24:48 Exterior	15:25:04 Exterior	15:25:10 Exterior	15:25:42 Exterior	15:25:49 Exterior	15:25:56 Exterior	15:26:12 Exterior	15:26:19 Exterior	15:26:26 Exterior	15:26:50 Garage	15:27:01 Garage	15:27:45 Exterior	15:28:08 Exterior	15:28:59 Calibration	15:29:43 Calibration	15:30:21 Calibration
2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	5 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	2 10/19/2023	1 10/19/2023	4 10/19/2023	2 10/19/2023	2 10/19/2023	4 10/19/2023	20.08 10/19/2023	20.12 10/19/2023	20.11 10/19/2023
0.2 Positive	0.2 Negative	0.2 Negative	0.2 Negative	0.2 Negative	0.2 Positive	0.2 Negative	0.1 Positive	0.2 Negative	0.2 Positive	0.2 Negative	0.2 Negative	0.2 Negative	0.2 Positive	0.2 Positive	0.3 Positive	0.2 Negative	0.2 Positive	0.2 Positive	0.1 Negative	0.07	0.07	0.07
1.9 mg/cm2	0.7 mg/cm2	0.4 mg/cm2	0.8 mg/cm2	0.5 mg/cm2	1.9 mg/cm2	0.4 mg/cm2	1 mg/cm2	0.5 mg/cm2	3.6 mg/cm2	0.1 mg/cm2	0 mg/cm2	0 mg/cm2	2.9 mg/cm2	3.9 mg/cm2	6.3 mg/cm2	0.8 mg/cm2	3.1 mg/cm2	4.7 mg/cm2	0.8 mg/cm2	0.92 mg/cm2	1.11 mg/cm ²	1.09 mg/cm2
62	63	64	65	99	29	89	69	70	71	72	73	74	75	9/	77	78	79	80	81	82	83	84

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:

363500

Date Received:

10/23/23

Received By:

Baylie Longstreth

Date Sampled:

Time Sampled:

Analyst:

CR

Date of Report:

10/26/23

AIHA LAP, LLC: 101352

Client:

Cherokee Nation Environmental Programs

Logan Girty

PO Box 948

Tahlequah, OK 74464

Acct. No.:

Project:

Project No.:

C162

Cathy Patton

Location: Tul

Tulsa

N/A

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	01	Wipe	Lead	7.4	5	ug/sq. Ft.	10/26/23 11:33	NIOSH 7082
002	02	Wipe	Lead	7.1	5	ug/sq. Ft.	10/26/23 11:33	NIOSH 7082
003	03	Wipe	Lead	2,500	11	ug/sq. Ft.	10/26/23 11:33	NIOSH 7082
004	04	Soil	Lead	340	40	mg/kg	10/26/23 11:33	Soil EPA 7000B (1)
005	05	Wipe	Lead	9.9	5	ug/sq. Ft.	10/26/23 11:33	NIOSH 7082
006	06	Wipe	Lead	<11	11	ug/sq. Ft.	10/26/23 11:33	NIOSH 7082

Cherry Rossen, 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:

20979 Lead

Date: 10/26/2023

Matrix: Soil

Lab Number:

363500

Approved By: Cherry Rossen

Date Approved: 10/26/2023

Notes:

Test:

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	2.3	2.8
FCV	2.2	2.5	2.8
RLVS	0.08	0.21	0.24
ICV	0.9	1	1.1

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
LCS-S1	0.000	2.428	2.633	108.4	2.355	97.0	11.1

Churry Bussen

Authorized Signature:

Supplemental Report QAQC Results

QA ID:

20980

Lead

Date:

10/26/2023

Matrix: Wipe

Lab Number:

363500

Approved By: Cherry Rossen 10/26/2023 **Date Approved:**

Notes:

Test:

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	2.3	2.8
FCV	2.2	2.5	2.8
RLVS	0.05	0.13	0.15
ICV	0.9	1	1.1

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W1	0.000	2.428	2.355	97.0	2.815	115.9	17.8

Charg Bussen



LEAD CHAIN OF CUSTODY

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Page 1 of

For Lab Use Only Lab No. 36,3500 Accept) Reject	Report Results (区 one box)	QuanTEM Website	Email logan-girty@cherokee.org	Other_
	Re	O	©	
2033 Heritage Park Drive, Oktahoma City, Ok 73120-7502 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058 LEGAL DOCUMENT - PLEASE PRINT LEGIBLY	Project Information	453-5000 Project Name: Cathy Patton	Project Location: Tulsa	Project ID:
LEGAL DOCUMENT		Phone: (918) 453-5000	Cell Phone: (918) 772-8346 Project Location: Tulsa	E-mail: logan-girty@cherokee.org Project ID:
LABORATORIES www.QuanTEM.com	Contact Information	Company: Cherokee Nation Environmental Programs Phone: (918)	contact: Logan Girty	Account #: C 162

874812

P.O. Number:

10/19/2023

Date:

SAMPLED BY: Name: Logan Girty

Account #: C 162

FELINOUISHED BY DATE 7. 10/2 11/2 11/2 11/2 11/2 11/2 11/2 11/2	ATE 0/2	10/20/2023 11 AM EQUESTED SER	10/20/2023 FedEx (May 11 AM REQUESTED SERVICES (Please ☑ the Appropriate Boxes)	I the Appi	Opriate	Boxes		RECEIVED BY	>			DATE & TIME 10/23/23 103	2
				Flame	Flame Atomic Absorption	Absor	ption					TURNAROUND TIME	ME
				EPA	EPA 7000B	Z	NIOSH 7082	82	Other	Other Analysis		O Same Day	
				sqi ≹C	(f)		(21)/6		8			O 24-Hour	
	Sample Description		Volume or Area) 동 (y/ɓw				ARD		-	3 - Day	
				int J§C	ılk (ı) lio		(hg	g - g	8 AЯ	her	O 5-Day	
				Pa C	าย				IDT	ВСІ	10		
	Living Rm Floor		144 sq in				>						
	Porch Floor (conc)	(144 sq in				>						
	Bedroom 1 Window Trough	hgno	64 sq in				>						
	Composite Soil (dripline)	ine)				>							
	Kitchen Floor		144 sq in				>						
	Kitchen Window Sill	=	65.25 sq in				>						

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