Lead-Based Paint Risk Assessment Report

For the Dwelling Located at:

Rick Adair 529 West 9th St. Chelsea, OK 36.535213 N, 95.438883 W Built in: 1960

Prepared For:

Cherokee Nation Housing Rehabilitation
Using ODEQ, EPA and CN Work Practice Standards
Established in 40 CFR 745-227

Lab Analysis by Quantem Laboratories
AIHA-ELLAP 101352
2033 Heritage Park Dr.
Oklahoma City, OK
(405) 775-7272

By:

C. Nick Clark, Certified Risk Assessor

P.O. Box 948 Tahlequah, OK 74465 (918) 316-7451 Heuresis Pb200i SN: 2312

Signature: C. Thick Clark Date: 4-30-21

OK Firm No.: OKFIRM11198 OK License No.: OKRASR13910 CN Firm No.: CNFIRM00001 CN License No.: CNRASR00036

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Part I: Identifying Information

Identity of dwelling(s) covered by report, identity of property(ies).

- Risk Assessor, Name of Certificate (or License) and Number and State issuing certificate/license. 2.
- Property Owner Name, Address, and Phone Number.
- 3. Date of Report, Date of Environmental Sampling.

Part II: Completed Management, Maintenance, and Environmental Results Forms and Analyses

- List of Location and Type of Identified Lead Hazards including and indication of which hazards are 4. priorities (this summary should be suitable for use as notification to residents).
- Optional Management Information (Form 5.6) (not required if all dwellings were sampled). 5.
- Maintenance/Paint Condition Information (Form 5.2 or 5.7) 6.
- Building Condition (Form 5.1) 7.
- Brief Narrative Description of Dwelling Selection Process (not required if all dwellings were sampled). 8. 9.
- Analysis of Previous XRF Testing Report (if applicable).
- Deteriorated Paint Sampling Results (Form 5.3 or 5.3a) 10.
- Dust Sampling Results (Form 5.4 or 5.4a) 11.
- 12. Soil Sampling Results (Form 5.5)
- Other Sampling Results (if applicable) 13.

Part III: Lead Hazard Control Plan

- Lead-Based Paint Policy Statement (not applicable for homeowners). 14.
- Name of individual in Charge of Lead-Based Paint Hazard Control Program. 15.
- Recommended Changes to Work Order System and Property Management (optional, not applicable for 16. homeowners or property owner without work order systems).
- Acceptable Interim Control Options for This Property and Estimated Costs. 17. 18.
- Acceptable Abatement Options for This Property.
- 19. Reevaluation Schedule (if applicable).
- Interim Control/Abatement to Be Implemented in This Property. 20. 21.
- A Training Plan for Managers, Maintenance Supervisors, and Workers (this should include named individuals), if applicable. 22.
- Method of Resident Notification of Results of Risk Assessment and Lead Hazard Control Program (not applicable for homeowners). Note: This section should include a discussion of how residents are to be educated about lead poisoning, before the risk assessment results are released.
- 23. Signature (Risk Assessor) and Date.
- 24. All laboratory raw data.

Part IV: Appendix

Part I: Identifying Information

Rick Adair 529 West 9th St. Chelsea, OK 74016 918-789-3513 36.535213 N -94.438883 W Built in: 1960

Part II: Results

List of location and type of identified lead hazards:

Deteriorated Lead-Based Paint (Hazards):

NAME OF TAXABLE PARTY.	NAME AND ADDRESS OF THE OWNER, WHEN PERSONS NAMED IN	3 SD Result	Nom Secs	Date	Time	Room	>RoomCh	oic Structure			
		0.2 Positive		4/22/2021	16:06:51	Exterior	House	STATE OF THE PARTY	>Membe		
175	1.7 mg/cm2	0.3 Positive		4/22/2021				Garage Door Garage Door			

No Hazards Exist

Lead in Soil Hazards:

No Hazards Exist

A few other painted surfaces that have not been tested for lead are in "poor" condition and should be repainted within the next year before further deterioration occurs. However, these surfaces are not considered to be immediate "hazards," using criteria in the 2012 HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing. Those surfaces are:

NA

There has not been any previous lead-based paint testing at this dwelling, although a lead-based paint inspection of all painted surfaces is recommended so that potential lead problems can be monitored before they become

Soil lead levels were all below 400 ug/g. Current EPA and HUD Guidance for soil is 400ug/g for bare play areas and 1,200 ug/g for other areas. Using these criteria, soil is not a hazard at this property.

The owner has decided to select the following hazard control measures, which are all acceptable based on HUD's Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing:

Reevaluation: Standard Reevaluation Schedule 3 contained in the HUD Guidelines does apply to this property, since one of the rooms had a dust lead level greater that the standard. Therefore, the dwelling should be reevaluated in NA (12 months from now). If no lead-based paint hazards are identified at this 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.

Building Condition Form

CONDITION	YES	NO
Roof Missing Parts of Surfaces (tiles, boards, etc.)		X
Roof Has Holes or Large Cracks	X	
Gutter 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 painting		X
Exterior siding has missing boards or shingles		X
Water stains on interior walls or ceilings		X
Plaster walls 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, structural leans, or visibly unsound		X
Γotal	2	9

If the "Yes" column has 2 or more checks, the dwelling is considered to be in poor condition for the purposes of a risk assessment. However, specific conditions and extenuating circumstances should be considered before determining final condition of the building and the appropriateness of a lead hazard screen.

Notes:

Overall, the home is in **Poor** condition.

- 8. Dwelling Selection Process N/A
- 9. Analysis of Previous XRF Testing Report N/A

Field Sampling Form for Deteriorated Paint

Name of Risk Assessor Nick Clark
Name of Property Owner Rick Adair
Property Address529 W. 9th St. Chelsea, OK 74016
Sampling Protocol Single Family
Target Dwelling Criteria (Check All That Apply)
Code Violations
X_ Judged to be in Poor Condition
Presence of two or More Children between Ages of 6 Months and 6 Years
Serves as Day-Care Facility
Recently Prepared for Reoccupancy
Random Sampling XRF SN 2312
None of the above
Nom Read Conc. Units 3 SD Result Secs Date Time Ream A Date Clair Second Secon
174 1 mg/cm2 0.2 Positive 5 4/22/2021 16:06:51 Exterior House Garage Door Garage Ward 13 100 Cond.
175 1.7 mg/cm2 0.3 Positive 2 4/22/2021 16:07:35 Exterior House Garage Door Casing Wood13 A10 Intact
Sample <u>all</u> layers of paint, not just deteriorated paint layers
Total Number of Samples This Page 2
Page1of1
Date of Sample Collection4/22/2021

Field Sampling

Form for Dust

Sample Number	Room (Record Name of Room Used by the Owner or Resident)	Surface Type	Is Surface Smooth and Cleanable?	Dimension ¹ of Sample Area (inches x inches)	Area (in²)	Result of Lab Analysis (ug/ft²)
01	Kitchen	Floor	Yes	12x12	144	<5.0
02	Kitchen	WS	Yes	3.25 x 27	87.75	<8.2
03	Living Room	Floor	Yes	12 x 12	144	<5.0
04	Living Room	WS	Yes	3.25 x 19	61.75	18
05	Living Room	WT	Yes	3.50 x 19	66.50	290
06	Bathroom	Floor	Yes	12 x 12	144	<5.0
07	Bathroom	WS	Yes	3.25 x 27	87.75	10
08	Bathroom WT	WS	Yes	3 x 27	81	240
09	Garage Concrete	Floor	Yes	12 x 12	144	9.4

Measure to the nearest 1/16 inch

Total Number of Samples This Page9
Page1 of1
Date of Sample Collection 4/22/2021 Date shipped to lab 4/23/2021
Shipped by <u>C. Nick Clark</u> Received by EMSL Analytical Staff <u>C. Nick Clark</u> (signature) (signature)
HUD Standards: 10 ug/ft² (floors), 100 ug/ft² (interior window sills), 400 ug/ft² (window troughs)

Field Sampling Form For Soil

(Composite Sampling Only)

Name of Risk Assesso			
Name of Property Ow	ner Rick Adair		
Property Address _52	9 West 9th St. Chelsea,	OK 74016	
			WATER CONTROL
SAMPLE NO.	LOCATION	BARE OR COVERED	LAB RESULTS ug/g
10	Drip Line	Bare	<40
Collect only the ½" of	fsoil		
	ples This Page		
	ples This Page	<u> </u>	
Total Number of Sam	ples This Page	Date Shipped t	o lab <u>4/23/2021</u>
Total Number of Sam Page1 o Date of Sample Collect	ples This Page1 f1 ction422/2021		

Part III: Lead Hazard Control Options

14. Lead-Based Paint Policy Statement

On file CNEP and Cherokee Nation Housing Rehab

15. Name of Individual in Charge of Lead-Based Paint Hazard Control Program:

Cherokee Nation Housing Rehab - George Hubbard: 918-456-5482 ext. 1263

16. Recommended Changes to Work Order System and Property Management

The existing work order system is an informal verbal one. If painted surfaces will be disturbed during a particular repair job, the painted surface should be tested to determine if it has lead-based paint on it. If it does (or if testing is not completed), the maintenance worker should take the necessary precautions by wetting down the surface and performing cleanup. If the surface area is large or if the work will generate a significant amount of dust, clearance testing should be completed before residents move back into the room. The table below can be used as a general guide in determining whether maintenance jobs are likely to be high risk or low risk.

When work is assigned, the owner or worker should determine whether the job is low or high risk and adopt protective measures as needed.

Table 17.1 (Taken from HUD Guidelines) Summary of Low-and High-Risk Job Designations for Surfaces Known or Suspected to Have Lead-Based Paint

Job Description	Low Risk	High Risk
Repainting (includes surface Preparation)		√
Plastering or wall repair		√
Window repair		1
Water or moisture damage repair (repainting and plumbing)		V
Door repair	V	
Building component replacement		1
Welding on Painted Surfaces		1
Door lock repair or replacement	V	
Electrical fixture repair	V	
Floor refinishing		V

Carpet replacement		√
Groundskeeping	√ ·	
Radiator leak repair	V	
Baluster repair (metal)		V
Demolition		√

• High-risk jobs typically disturb more than 2 square feet per room. If these jobs disturb less than 2 square feet, then they can be considered low-risk jobs.

Table 17.2

	Low Risk	High Risk	
Worksite preparation with plastic sheeting (6 mil thick)	Plastic sheet no less than 5 feet immediately underneath work area	Whole floor, plus simple airlock at door or tape door shut	
Children kept out of work area	Yes	Yes	
Resident relocation during work	No	Yes	
Respirators	Probably not necessary*	Recommended	
Protective clothing	Probably not necessary*	Recommended	
Note: Protective shoe coverings are not to be worn on ladders, scaffolds, etc.			
Personal hygiene (enforced hand washing after job)	Required	Required	
Showers	Probably not necessary	Recommended	
Work practices	Use wet methods, except near electrical circuits	Use wet methods, except near electrical circuits	
Cleaning	Wet cleaning with lead-specific detergent trisodium phosphate or other suitable detergent around the work area only (2 linear feet beyond plastic)	HEPA vacuum/wet wash/HEPA vacuum the entire work area	
Clearance	Visual examination only	Dust sampling during the preliminary phase of the maintenance program and periodically thereafter (not required for every job)	

• Employers must have objective data showing that worker exposures are less than the OSHA Permissible Exposure Limit of 50ug/m3 if respirators and protective clothing will not be provided.

17. Interim Control Options and Estimated Costs

The costs shown below include labor, materials, worker protection, site containment and cleanup. These are only very rough estimates that may not be accurate; a precise estimate should be obtained from a certified lead-based paint abatement contractor. I would be pleased to perform clearance testing after this work has been completed at your request.

Lead-Based Paint Hazards:

Hazards -

				Nom									
Read	Conc. Units	3 SD Re	esult	Secs	Date	Time	Room	>RoomCh	oic Structure	>Memb	o∈ Substrate	Wall	Cond.
174	1 mg/cm ²	0.2 P	ositive		5 4/22/2021	16:06:51	Exterior	House	Gararge Door	Casing	Wood12	A9	Intact
175	1.7 mg/cm ²	0.3 P	ositive		2 4/22/2021	16:07:35	Exterior	House	Garage Door	Casing	Wood13	A10	Intact

Garage Door Casing - Wet scrape and Repaint - HEPA Vacuum, Wet Mop, HEPA Vacuum

Lead Dust Hazards:

Hazard A. – No Hazards Exist Lead Soil Hazards:

Hazard A. Dripline - No Hazards Exist

18. Acceptable Abatement Options

Lead-Based Paint Hazards

Hazard A:

Garage Door Casing – Remove and Replace, Enclose or Encapsulate -HEPA Vacuum, Wet Mop, HEPA Vacuum

Lead Dust Hazards:

Hazard A. – No Hazards Exist Lead Soil Hazards:

Hazard A. Dripline - No Hazards Exist

19. Reevaluation 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 long run 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.

Reevaluation: Standard Reevaluation 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 inNA(12 months from now). If no lead-based paint hazards are identified at that time,
another reevaluation should be conducted inNA(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.

Part IV: Site Specific Lead Hazard Control Plan

20.	Lead Hazard Control Option To Be Implen	nented in This Property				
	I recommend abatement options for all h document.	nazards listed in Part 3, Section 18 of this				
21.	Training Plan for Managers, Maintenance S	Supervisors and Workers				
	On file Cherokee Nation Housing	Rehab				
22.	22. Method of Resident Notification of Results of Risk Assessment and Lead Hazard Control In person by Cherokee Nation Housing Rehab					
23.	Signatures (Risk Assessor and Owner), Da	te and Certificate of Lead-Based Paint Compliance				
Own	er Signature	Date				
 Certi	fied Risk Assessor Signature	Date				

Certificate of Lead-Based Paint Compliance I hereby certify that on _______ the dwelling located at _______ meets the criteria established by the Department of Housing and Urban Development for lead safety. Either no lead-based paint hazards were identified or all lead-based paint hazards have been corrected. Owner C. Nick Clark Authorized Inspector

Cherokee Nation Environmental Programs

Expiration Date: March 31, 2022



1.000.022.103

Environmental Chemistry Analysis Report

QuanTEM Set ID:

334224

Date Received:

04/27/21

Received By:

Courtney Holman

Date Sampled:

Time Sampled:

Analyst:

CR

Date of Report:

04/29/21

AIHA-LAP, LLC: 101352

Client:

Cherokee Nation Environmental Programs

Carlton N Clark

PO Box 948

Tahlequah, OK 74464

Acct. No.:

C162

Project:

Rick Adair

Location:

Chelsea

Project No.: 260136

QuanTEM					Reporting		Date/Time	
ID	Client ID	Matrix	Parameter	Results	Limits	Units	Analyzed	Method
001	01	Wipe	Lead	<5.0	5	ug/sq. Ft.	04/29/21 11:55	NIOSH 7082
002	02	Wipe	Lead	< 8.2	8.2	ug/sq. Ft.	04/29/21 11:55	NIOSH 7082
003	03	Wipe	Lead	< 5.0	5	ug/sq. Ft.	04/29/21 11:55	NIOSH 7082
004	04	Wipe	Lead	18	12	ug/sq. Ft.	04/29/21 11:55	NIOSH 7082
005	05	Wipe	Lead	290	11	ug/sq. Ft.	04/29/21 11:55	NIOSH 7082
006	06	Wipe	Lead	< 5.0	5	ug/sq. Ft.	04/29/21 11:55	NIOSH 7082
007	07	Wipe	Lead	10	8.2	ug/sq. Ft.	04/29/21 11:55	NIOSH 7082
800	08	Wipe	Lead	240	8.9	ug/sq. Ft.	04/29/21 11:55	NIOSH 7082
009	09	Wipe	Lead	9.4	5	ug/sq. Ft.	04/29/21 11:55	NIOSH 7082
010	10	Soil	Lead	<40	40	mg/kg	04/29/21 16:01	Soil EPA 7000B (1)

Authorized Signature:

Chary Bussen

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: Test: 19266

Lead

Date:

4/29/2021

Matrix: Wipe

Lab Number:

334224

Approved By:

Cherry Rossen

Date Approved: 4/29/2021

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank 1	0
Matrix Blank 2	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	2.2	2.5	2.8
FCV	2.2	2.5	2.8
ICV	0.9	1	1.1
RLVS	0.05	0.08	0.15

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD	
MS-W1	0.000	2.431	2.536	104.3	2.562	105.4		
MS-W2	0.000	2.431	2.598	106.9	2.558	105.2	1.5	

Authorized Signature:

Many Bussen

Supplemental Report QAQC Results

QA ID: Test:

19268

Lead

Date:

4/29/2021 Matrix: Soil

Lab Number:

334224

Approved By:

Date Approved:

Cherry Rossen 4/29/2021

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	2.4	2.8
FCV	2.2	2.5	2.8
ICV	0.9	1	1.1
RLVS	0.08	0.12	0.24

Duplicate Data:

Sample Number	Result	Duplicate	% RPD		
334224-010	0.120	0.132	9.5		

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD	
LCS-S1	0.000	2.431	2.488	102.4	2.269	93.3	9.2	
334224-010	0.120	2.000	2.520	120.0				

Charg Bussen

Authorized Signature:_



Page 1 of 1

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For Lab Use Only Lab No. 33424 Accept) Reject

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	10	09	08	07	06	05	04	03	02	01	Sample ID (10 Characters Max)				" This Co	RELINQUISHED BY	SAMPLED BY: Name: C. Nicolas Clark	t#: C162	C. Nicolas Clark	ny: Cherokee Nation	
	Soil	Garage Floor	Bathroom WT	Bathroom WS	Bathroom Floor	Living Room WT	Living Room WS	Living Room Floor	Kitchen WS	Kitchen Floor	Sample Description				M	SHED BY	olas Clark			Company: Cherokee Nation Environmental Programs	Contact Information
		or	一	S	or	TW	SW	loor	0)	Or	tion		REQUESTED SERVICES		4/23/21 9am	DATE & TIME	Date: 04/22/2021	E-mail: carlton-cl	Cell Phone: (918) 316-7451	Phone: (918)	
		144 sq in	81 sq in	87.75 sq in	144 sq in	66.50 sq in	61.75 sq in	144 sq in	87.75 sq in	144 sq in	Volume or Area		ERVICES (Please				/2021	carlton-clark@cherokee.org	316-7451	(918) 453-5000	
				ם		5	ס		ם					1	Fed Ex	VIA	P.O. Number:	Project ID:	Project Loc	Project Name:	
											Paint Chips	Flame	☑ the Appropriate Boxes)	<u> </u>	-				Project Location: Chelsea		P
-											Bulk (mg/kg)	Flame Atomic Absorption EPA 7000B NIOSH	ropriat		3/		260136		nelsea	Rick Adair	Project Information
	4										Soil (mg/kg)	c Abso	е вохе	D	P					air	Inforn
		4	4	4	4	4	4	4	4	4	Wipes (ug/ft²)	NIOSH 7082	es)	1	4	RE					nation
											Air (μg /m³)	7082			m.	RECEIVED					
											TCLP - Pb			,	N	D BY					
											TCLP - RCRA 8	Other Analysis			all				0		Re
											RCRA 8	nalysis			10) Other	-	-	port R
											Other							er	ail carlt	INTEM	esults
											24 - Hour 3 - Day 5 - Day	Same Day		1 1	4/27/21/08:	DATE & TIME			Email carlton-clark@cherokee.org	QuanTEM Website	Report Results (☑ one box)