Lead-Based Paint Risk Assessment Report

For the Dwelling Located at:

Name: Brian Johnson
Phone Number: (918) 457-6733
Address: 1920 White Ave, Tahlequah, OK 74464
Latitude: N 35.88966
Longitude: W 94.97240

Prepared For:

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

Lab Analysis by EMSL Analytical, Inc
ELLAP 102636
3029 S. Jefferson
Saint Louis, MO 63118
(314) 577-0150

By:

Brad Asbill, Certified Risk Assessor
P.O. Box 948
Tahlequah, OK 74465
(918) 453-5370
Niton XLp306a
SN: 26522

Signature: Brad Asbill Date: 2-6-14

OK Firm No.:	OKFIRM11198	OK License No.:	OKRASR12600
CN Firm No.:	CNFIRM00001	CN License No.:	CNRASR00011

Table of Contents

Part I: Identifying Information

Name: Brian Johnson
Phone Number: (918) 457-6733
Address: 1920 White Ave, Tahlequah, OK 74464
Latitude: N 35.88966
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Part II: Results

List of location and type of identified lead hazards:

- Exterior – All soffits and fascia

A few other painted surfaces that have not been tested for lead are in "fair" 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 1995 *HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing.* Those surfaces are:

None.

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 hazardous.

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 applies to this property, since one of the rooms had a dust lead level greater that the standard. Therefore, the dwelling should be reevaluated in ____N/A_____(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.

Resident Questionnaire

Children/Children's Habits

1. (a) Do you have any children that live in your home? Yes__ No__X__

   (b) If yes, how many? _____ Ages? ____ _____ _____ _____

   (c) Record blood lead levels, if known_____ _____ ____ _____ _____ _____

IF NO CHILDREN, SKIP TO Q.5

2. Locate the rooms/areas where each child sleeps, eats, and plays.

Name of Child	Location of Bedroom	Location of All Rooms Where Child Eats	Primary Location Where Child Plays Indoors	Primary Location Where Child Plays Outdoors

3. Where are toys stored/kept? ___ _____

4. Is there any visible evidence of chewed or peeling paint on the wood work, furniture, or toys?
   Yes_____ No_____

Family Use Patterns

5. Which entrances are used most frequently?_____A entrance_____

6. Which windows are opened most frequently? ___none_____

7. Do you use window air conditioners? If yes, where?_____ No__X____

   (*Condensation often causes paint deterioration)*

8. (a) Do any household member engage in gardening? Yes_____ No__X_____

   (b) Record the location of any vegetable garden._____

   (c) Are you planning any landscaping activities that will remove grass or ground covering?
   Yes_____ No__X_____

9. (a) How often is the household cleaned? __weekly_____

   (b) What cleaning methods do you use?___soap/water _____

10. (a) Did you recently complete any building renovations? Yes_____ No___X____

    (b) If yes, where? _____

    (c) Was building debris stored in the yard? If yes, where?_____

11. Are you planning any building renovations? Where?_Exterior and interior___

12. (a) Do any household members work in a lead-related industry? Yes____ No__X__

    (b) If yes, where are dirty work clothes placed and cleaned?_____

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
Total	0	11

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 good 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 Brad Asbill

Name of Property Owner Brian Johnson

Property Address 1920 White Ave, Tahlequah, OK 74464

Sampling Protocol single family

Target Dwelling Criteria (Check All That Apply)

_____ Code Violations

_____ Judged to be in Poor Condition

_____ Presence of 2 or More Children between Ages of 6 Months and 6 Years

_____ Serves as Day-Care Facility

_____ Recently Prepared for Reoccupancy

_____ Random Sampling **XRF SN 26522**

_____ None of the above

Sample Number	Room	Building Component	Laboratory Result (ug/g) or **XRF Reading** (mg/cm^2)
5	Exterior	A Side Soffit	1.3
12	Exterior	A Side Fascia	1.2
HUD Standard			5,000 ug/g or 1 mg/cm^2

Sample all layer of paint, not just deteriorated paint layers

Total Number of Samples This Page 2

Page 1 of 1

Date of Sample Collection 1/29/2014

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 (ft^2)	Result of Lab Analysis (ug/ft^2)

[1] Measure to the nearest 1/16 inch

Total Number of Samples This Page ____N/A_____

Page____ of _____

Date of Sample Collection _____ Date shipped to lab _____

Shipped by:____ _____ Received by:____ _____
(signature) (signature)

HUD Standards: 40 ug/ft^2 (floors), 250 ug/ft^2 (interior window sills), 400 ug/ft^2 (window troughs)

Field Sampling Form For Soil

(Composite Sampling Only)

Name of Risk Assessor Brad Asbill

Name of Property Owner Brian Johnson

Property Address 1920 White Ave, Tahlequah, OK 74464

SAMPLE NO.	LOCATION	BARE OR COVERED	**LAB RESULTS ug/g**
1	**Soil Dripline**	**Covered 50%**	**<40**

Collect only the ½" of soil

Total Number of Samples This Page 1

Page 1 of 1

Date of Sample Collection 1/29/14 Date Shipped to lab 1/29/14

Shipped by Brad Asbill Received by EMSL Analytical, Inc.

(signature) (signature)

13. Other Sampling Results N/A

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)

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		√
Water or moisture damage repair (repainting and plumbing)		√
Door repair	√	
Building component replacement		√
Welding on Painted Surfaces		√
Door lock repair or replacement	√	
Electrical fixture repair	√	
Floor refinishing		√
Carpet replacement		√
Groundskeeping	√	
Radiator leak repair	√	
Baluster repair (metal)		√
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 Note: Protective shoe coverings are not to be worn on ladders, scaffolds, etc.	Probably not necessary*	Recommended
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.

Exterior – All Soffits and Fascia	Wet Scrape & Repaint

18. Acceptable Abatement Options and Estimated Costs

Exterior – All Soffits and Fascia	Enclose, Encapsulate, Remove & Replace

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 in ___N/A_____(12 months from now). If no lead-based paint hazards are identified at that time, another reevaluation should be conducted in ___N/A___ (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 Implemented in This Property

I recommend abatement options for all hazards listed in Part 3, Section 18 of this document.

21. Training Plan for Managers, Maintenance Supervisors and Workers

On file Cherokee Nation Housing Rehab

22. Method of Resident Notification of Results of Risk Assessment and Lead Hazard Control Program

In person by Cherokee Nation Housing Rehab

23. Signatures (Risk Assessor and Owner), Date and Certificate of Lead-Based Paint Compliance

_____ _____

Owner Signature Date

_____ _____

Certified 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

_____

Authorized Signature

Risk Assessor License # _____

Expiration Date:_____

Cherokee Nation

Environmental Programs

EMSL Analytical, Inc.
3029 S. Jefferson, Saint Louis, MO 63118
Phone/Fax: (314) 577-0150 / (314) 776-3313
http://www.EMSL.com saintlouislab@emsl.com

EMSL Order:	391400916
CustomerID:	CHER25
CustomerPO:	146739
ProjectID:	

Attn: **Brad Asbill**
Cherokee Nation Environmental Programs
206 East Allen Road
Tahlequah, OK 74464

Phone: (918) 453-5370
Fax:
Received: 02/03/14 12:45 PM
Collected:

Project: **Brian Johnson**

Test Report: Lead in Soils by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	*Analyzed*	*RDL*	*Lead Concentration*	*Notes*
0001	2/3/2014	40 mg/Kg	<40 mg/Kg	
Client Sample 1				***Collected:***

Jeff Siria, Laboratory Manager
or other approved signatory

Reporting limit is 40 mg/kg based on the minimum sample weight per our SOP. The QC data associated with these sample results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. Results reported based on dry weight. *slight modification to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.

Samples analyzed by EMSL Analytical, Inc. Saint Louis, MO AIHA-LAP, LLC–ELLAP Accredited #102636

Initial report from 02/03/2014 17:17:14

OrderID: 391400916

EMSL ANALYTICAL, INC
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 391400916

EMSL Analytical, Inc.
3025-3029 S. Jefferson
St. Louis, MO 63118
(314)-577-0150
(314)-776-3313

Company: Cherokee Nation Environmental	EMSL-Bill to: [✓] Different [ ] Same. **If Bill to is Different note instructions in Comments**
Street: 206 E Allen Rd	*Third Party Billing requires written authorization from third party*
City: Tahlequah — State/Province: OK	Zip/Postal Code: 74464 — Country: United States
Report To (Name): Brad Asbill	Telephone #: 9184535009
Email Address: brad-asbill@cherokee.org	Fax #: — Purchase Order: 146739
Project Name/Number: Brian Johnson	Please Provide Results: [ ] FAX [✓] E-mail [ ] Mail
U.S. State Samples Taken: OK	CT Samples: [ ] Commercial/Taxable [ ] Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

[ ] 3 Hour | [ ] 6 Hour | [■] 24 Hour | [ ] 48 Hour | [ ] 72 Hour | [ ] 96 Hour | [ ] 1 Week | [ ] 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips [ ] % by wt. [ ] mg/cm² [ ] ppm	SW846-7000B	Flame Atomic Absorption	0.01%	[ ]
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	[ ]
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	[ ]
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	[ ]
Wipe* ASTM [ ]	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	[ ]
non ASTM [ ]	SW846-6010B or C	ICP-AES	1.0 µg/wipe	[ ]
*If no box is checked, non-ASTM Wipe is assumed	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	[ ]
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	[ ]
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	[ ]
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	[✓]
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	[ ]
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	[ ]
Wastewater Unpreserved [ ]	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	[ ]
Preserved with HNO_3 pH < 2 [ ]	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	[ ]
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	[ ]
Drinking Water Unpreserved [ ]	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	[ ]
Preserved with HNO_3 pH < 2 [ ]	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	[ ]
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	[ ]
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	[ ]
Other:				

Name of Sampler: Brad Asbill — Signature of Sampler: Brad Asbill

Sample #	Location	Volume/Area	Date/Time Sampled
1	Soil Dripline		1/29/14 11 30 am

Client Sample #'s: 1 - 1 — Total # of Samples: 1

Relinquished (Client): Brad Asbill — Date: 1-29-14 — Time: 1:30 pm

Received (Lab): Betty Foster — Date: 2-3-14 — Time: 8:45 m

Comments:

BillTo: Cherokee Nation Environmental, 206 E Allen Rd, Tahlequah, OK, 74464, United States
Attention: Ashley Wagnon Phone: 9184535009 Email: ashley-wagnon@cherokee.org Purchase Order: 146739