

CHEROKEE NATION

Environmental Programs



LEAD-BASED PAINT CLEARANCE TEST

Unit #10670

PREPARED BY: LOGAN GIRTY, ENVIRONMENTAL SPECIALIST I

REQUESTED BY: HACN HOUSING REHABILITATION – GEORGE HUBBARD

GENERAL INFORMATION

Date of Clearance Inspection: November 4, 2016

Participant Name:

Phone: 918-906-7106
Address: 33919 E 740 Rd, Wagoner, OK 74467
Coordinates: 35.944520 N°, -95.280560 W°
Year of Home Construction: 1948

Clearance Examiner:

Logan Girty, Environmental Specialist I
Cherokee Nation Environmental Programs
PO BOX 948, Tahlequah, OK 74465
918.453.5009 Ext. 6140
Oklahoma Inspector/Risk Assessor, OKRASR13822
Cherokee Nation Inspector/Risk Assessor, CNRASR00037

Cherokee Nation Environmental Programs
PO Box 948, Tahlequah, OK 74465
918.453.5000
Oklahoma Firm: OKFIRM11198
Cherokee Nation Firm: CNFIRM00001

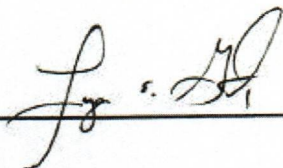
Laboratory:

EMSL Analytical, Inc
AIHA-ELLAP 102636
3029 S. Jefferson
Saint Louis, MO 63118
314.577.0150

SUMMARY OF CLEARANCE RESULTS:

Based on a visual assessment and dust sampling on November 4, 2016, dust-lead hazards, as defined by federal standards were not found.

Signature: _____



Date: 11/8/2016

SUMMARY OF HAZARD REDUCTION ACTIVITIES

Start and Completion Date: 10/18/16 to 11/2/16

Firm Information:

Cherokee Nation LBP Force Account Crew
PO Box 948, Tahlequah, OK
OKFIRM11198
Project Designer: George Hubbard, OKPDR13330
Construction Inspector: Charlie Gann, OKSUVR13010

Description of Hazard Reduction Activities and Areas Addressed:
(Information in this section provided by Cherokee Nation Housing Rehabilitation Department)

Location	Activity
Exterior	Replace D Side Door in Garage
Description of Work:	Prior to initiating work, install one layer of six-mil plastic on ground/floor and doorways of garage, and exit doorway. Replace door/trim. HEPA-Vac/WET/HEPA-Vac to reduce the elevated lead dust levels on the garage floor, and Hepa-vac plastic to remove lead dust. Remove six-mil plastic from lead activity areas. Seal and tape all laps and joints. Debris shall be stored in locked trailer or dumpster until it can be taken to a code legal dump site.
Occupant Protection Plan:	N/A – Not Abatement Work

On-Going Lead Based Paint Monitoring Requirements:

CN Housing Rehab provides services for eligible Cherokee Citizen's privately owned homes. The NAHASDA funding is from year to year and none can be set aside for the follow up monitoring for Interim Controls of the Lead Based Paint. Enclosures and component replacement is chosen, when

possible, to remove the lead hazard because it is in the best interest for the participant to prevent lead based paint and dust hazards.

VISUAL ASSESSMENT – LEAD HAZARD CLEARANCE EXAMINATION

Work Area	Deteriorated Paint	Debris	Visible Dust	Notes	Pass/Fail
Garage Floor	No	No	No		Pass
Garage Window Sill	No	No	No		Pass
Porch Floor	No	No	No		Pass
Soil	No	No	No		Pass

DUST LEAD HAZARD CLEARANCE EXAMINATION:

Sample #	Location	Surface	Dimensions of sample area (inch)	$\mu\text{g} / \text{ft}^2$	Pass/Fail
01	Garage	Floor	12 x 12	11	Pass
02	Garage	Window Sill	3.25x32	28	Pass
03	Porch	Floor	12 x12	<10	Pass

HUD/EPA Clearance Standards for Lead in Dust: Floors $40\mu\text{g} / \text{ft}^2$, Interior window sill $250\mu\text{g} / \text{ft}^2$, Window trough: $400\mu\text{g} / \text{ft}^2$

SOIL LEAD HAZARD CLEARANCE EXAMINATION:

Sample #	Location	Bare or Covered	$\mu\text{g} / \text{g}$	Pass/Fail
04	Dripline	Bare	<40	Pass

HUD/EPA Clearance Standards for Lead in Soils: Play Areas $400\mu\text{g} / \text{g}$, all other areas $1200\mu\text{g} / \text{g}$

**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: 391610708

CustomerID: CHER25

CustomerPO: 194230

ProjectID:

Attn: **Logan Girty**
Cherokee Nation Environmental Programs
206 East Allen Road
Tahlequah, OK 74464

Phone: (918) 453-5370

Fax:

Received: 11/08/16 8:30 AM

Collected:

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

<i>Client SampleDescription</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>RDL</i>	<i>Lead Concentration</i>
01 391610708-0001		11/8/2016	144 in ²	10 µg/ft ²	11 µg/ft ²
02 391610708-0002		11/8/2016	104 in ²	14 µg/ft ²	28 µg/ft ²
03 391610708-0003		11/8/2016	144 in ²	10 µg/ft ²	<10 µg/ft ²

Jeff Siria, Laboratory Manager
or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 µg/wipe. µg/wipe = µg/ft² x area sampled in ft². 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependent on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAP unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

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

Initial report from 11/08/2016 14:51:51

**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: 391610711
CustomerID: CHER25
CustomerPO: 194230
ProjectID:

Attn: **Logan Girty**
Cherokee Nation Environmental Programs
206 East Allen Road
Tahlequah, OK 74464

Phone: (918) 453-5370
Fax:
Received: 11/08/16 8:30 AM
Collected:

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

<i>Client SampleDescription</i>	<i>Collected</i>	<i>Analyzed</i>	<i>RDL</i>	<i>Lead Concentration</i>
04 391610711-0001		11/8/2016	40 mg/Kg	<40 mg/Kg

Jeff Siria, Laboratory Manager
or other approved signatory

*Analysis following Lead in Soil/Solids by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 40 mg/kg based on the minimum sample weight per our SOP. 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. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Saint Louis, MO AHA-LAP, LLC-ELLAP Accredited #102836

Initial report from 11/08/2016 16:56:25

Test Report PB w/RDL-7.32.3 Printed: 11/8/2016 4:56:25 PM

Page 1 of 1

EMSL Analytical, Inc.
3029 S. Jefferson

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

St. Louis, MO 63118
PHONE: (314)-577-0150
FAX: (314)-776-3313

391610708

Company: Cherokee Nation Environmental Programs		EMSL-Bill to: <input type="checkbox"/> Different <input checked="" type="checkbox"/> Same <small>If Bill to is Different note instructions in Comments</small>	
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): Logan Girty		Telephone #: 918-772-8346	
Email Address: logan-girty@cherokee.org		Fax #: 918-453-6140	Purchase Order: 194230
Project Name/Number:		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: OK		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input checked="" type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>			
Matrix	Method	Instrument	Reporting Limit
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> 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* <input checked="" type="checkbox"/> ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> <small>*If no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe
	SW846-6010B or C	ICP-AES	1.0 µg/wipe
	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 <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	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: Logan Girty		Signature of Sampler: <i>Logan Girty</i>	
Sample #	Location	Volume/Area	Date/Time Sampled
01	Garage Floor	144 sq in	11/4/16 9 AM
02	Garage Window Sill	104 sq in	11/4/16 9 AM
03	Porch Floor	144 sq in	11/4/16 9 AM
04	Composite Soil		11/4/16 9 AM
Client Sample #'s - 01 thru 04		Total # of Samples: 4	
Relinquished (Client): Logan Girty	Date: 11/4/16	Time: 10:30 AM	
Received (Lab): <i>Barry Burt</i>	Date: 11-8-16	Time: 8:30F	
Comments:			

8100 33059853