# CHEROKEE NATION Environmental Programs



## **Asbestos Sampling Report**

Unit #13705

PREPARED BY:

di MUL

DATE: 11/26/2025

TIMOTHY MILLER, ENVIRONMENTAL SPECIALIST II

**REQUESTED BY: HACN HOUSING REHABILITATION -**

JAMIE WALTERS

### **TABLE OF CONTENTS**

- I. SITE INSPECTION/DESCRIPTION
- II. BACKGROUND
- III. FIELD PROCEDURES AND ANALYTICAL METHODS
- IV. SUMMARY OF FINDINGS
- V. CONCLUSIONS

APPENDIX A: PROJECT SCOPE OF WORK

APPENDIX B: LABORATORY REPORT & CHAIN OF CUSTODY

### I. Site Inspection/Description

Cherokee Nation Environmental Programs (CNEP) has conducted asbestos sampling for the presence of asbestos containing materials (ACM) for the following site:

420 E. Pine St. Skiatook, OK 74070 918-697-1876 (Neighbors)

Coordinates: 36.36047, -95.99475

The sampling was performed to determine the presence of all ACM from within the affected parts of the structure for EPA's National Emissions of Hazardous Air Pollutants (NESHAP) compliance as well as OSHA worker protection.

The inspector responsible for this project was:

Timothy Miller, AHERA Inspector

The sampling was conducted on November 18, 2025 at the request of the Cherokee Nation Housing Rehabilitation Department.

The site is a single family home built in 1951. Sampling was limited to areas that would be affected by the project scope of work (Appendix A) provided by the housing rehabilitation department.

ACM was found at this site. See Section IV for locations.

### II. BACKGROUND

The Oklahoma Department of Environmental Quality (ODEQ) has adopted EPA's NESHAP regulation under OAC252:100, 41-15 and has been delegated authority in the state of Oklahoma for its enforcement. Section 61.145(a) of Federal EPA regulation states that prior to commencement of the demolition or renovation of a facility a thorough inspection of the affected part or parts of a facility is required to determine the presence of all asbestos including Category I and Category II non-friable, and friable ACM. ACM is defined by EPA and OSHA as any material that contains greater than 1% asbestos.

### III. FIELD PROCEDURES AND ANALYTICAL METHODS

During the on-site inspection, we visually assessed the physical characteristics of suspect asbestos-containing materials (SACM) based on homogeneous areas. Homogeneous areas are areas of asbestos similar in color, texture, and construction, date of application, and in general

appearance. For purposes of renovation and demolition, homogeneous areas of SACM can be further classified according to NESHAPs rules by whether the material is friable, Category I non-friable, or Category II non-friable.

<u>Friable ACM</u> is defined by NESHAPs rules as any material containing more than 1% asbestos as determined by Polarized Light Microscopy (PLM), that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.

<u>Category I Non-friable ACM</u> is defined by NESHAPs rules as any asbestos-containing packings, gaskets, construction mastics, resilient floor covering (i.e. floor tiles, roll sheet flooring) or asphalt roofing products that contain more than 1% asbestos as determined by PLM.

<u>Category II Non-friable ACM</u> is defined by NESHAPs rules as any material, excluding Category I non-friable ACM, containing more than 1% asbestos as determined by PLM, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Typically, non-friable materials, such as transite (cementious products) and vinyl floor tiles are not regulated by the State of Oklahoma provided they do not become friable. General deterioration, machine grinding, drilling, sanding, and dry-buffing are all ways of causing non-friable materials to become classified as Regulated Asbestos Containing Materials (RACM). All friable materials are classified RACM. Please note that the following materials, even though classified as non-friable are fully regulated by Oklahoma Department of Labor for removal purposes as friable material: ceiling tiles, roll sheet flooring (linoleum), and joint wall compound when deemed friable

In addition to classification of suspect material into friable and non-friable materials, a determination of current condition was conducted as part of the physical assessment. The condition noted is the representative of the material at the time of inspection. Conditions of materials can change very quickly when disturbed. All suspect material was placed in one of the following categories of condition.

<u>Significantly damaged</u>: Material that is damaged, blistered, deteriorated, water stained over at least 10% of its total area.

<u>Damaged</u>: Material that is damaged, blistered, deteriorated, water stained less than 10% of its total area.

Good: Material that has no visible damage or deterioration.

Guidelines used for the number of samples collected per homogeneous area were determined using the Asbestos Hazard Emergency Response Act (AHERA) protocol promulgated in 40 CFR 763, Appendix E as follows:

Surfacing materials – material that is sprayed or troweled on wall, ceilings, or support columns for fireproofing, acoustical, or even decorative purpose.

- Less than 1000 ft2 Minimum 3 samples
- From 1000-5000 ft2 Minimum 5 samples
- Greater than 5000 ft2 Minimum 7 samples

Thermal System Insulation (TSI) materials – thermal system insulation material applied to tanks, boiler, pipes or other structural component for an insulating purpose.

- May omit areas of fibrous glass, foam glass, rubber, and Styrofoam form sampling.
   Areas that have mastic on seams or outer jacketing will be sampled.
- At least three samples must be collected from each homogeneous area of TSI.
- Plus an additional sample from each patched area of less than 6 linear feet.
- Fittings require a sufficient amount to determine positive or negative nature.
- Inspector will first collect samples from damaged areas, exposed ends, or areas missing jacketing first.

Miscellaneous materials – all other material that are not thermal system insulation or surfacing materials. This includes gaskets, packings, joint wall compound, cementious asbestos materials, ceiling tiles resilient flooring materials, construction mastics, etc..

- May assume and document as such
- A sufficient amount of samples to determine negative or positive nature. A minimum or one per suspect homogeneous area.
- Collect samples from inconspicuous locations.
- Material such as cementious asbestos or vibration dampening cloths should not be sampled and will be assumed ACM unless instructed by client to collect these samples.

Bulk samples of suspect ACM were analyzed by Polarized Light Microscopy (PLM) in accordance with EPA Methods 600R-93/116. All samples were sent to a NVLAP accredited laboratory for analysis. QuanTEM Laboratories, LLC (NVLAP # 101959-0) in Oklahoma City, OK analyzed the samples. A copy of the full laboratory report and chain of custody can be found in Appendix B.

### IV. SUMMARY OF FINDINGS

A total of 8 samples were analyzed from 7 homogeneous areas due to multi-layers of material within some homogeneous sample areas. All accessible and observable areas within the renovation area were sampled for ACM. Samples were not taken of suspect materials that may have placed the inspector at risk of injury (i.e. electrical panel boxes). Any suspect ACM that have not been tested and/or found positive for asbestos must be assumed ACM until they are analyzed. Upon review of laboratory analysis, the following asbestos containing materials can be found in Table 1. All suspect ACM samples that were analyzed and did not contain asbestos can be found in Table 2.

Sample #	Material Description	Locations	Friability (Friable, NF Cat I NF Cat II)	Condition	Sample Results (% Asbestos)
06-01	Joint Compound	Walls Throughout	Friable	Damaged	3
07-01	Gray Siding	Exterior Siding	NF Cat II	Damaged	15

	Sample Resul (% Asbestos	Condition	Locations	Material Description	Sample #
ot Present	Asbestos Not Pr	Damaged	Roof	Gray Shingle	01-01
ot Present	Asbestos Not Pr	Damaged	Exterior Windows	White Caulk	02-01
ot Present	Asbestos Not Pr	Good	Interior Windows	Clear Caulk	03-01
ot Present	Asbestos Not Pr	Good	Interior Windows	Brown Caulk	04-01
ot Present	Asbestos Not Pr	Damaged	Hall Bath	Blue Floral Wallpaper	05-01
_					

### V. CONCLUSIONS

Asbestos is not always an immediate hazard. Intact and undisturbed ACM does not pose a health risk. They may, however become a health hazard if they are damaged, disturbed, or deteriorate over time and release fibers into the air. There are no federal, state, or Tribal laws mandating asbestos removal. It is only when the material can no longer be maintained in good condition and/or airborne concentrations of asbestos are measured and found to be above a permissible exposure limit (PEL), or when the building is to be demolished or renovated, that removal may become necessary. Any renovation/demolition work which may impact these positive materials should be conducted in accordance with all applicable Federal, state, and local regulations.



7021 W. Wilshire Blvd, Ste. B / Oklahoma City, OK 73132 / 405-755-7272

### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 385047

Account Number: C162

Date Received:

Received By:

11/20/2025 Charlie Johnson

Date Analyzed:

11/24/2025

Analyzed By: Methodology: Cassie Sanborn EPA/600/R-93/116

Client: Cherokee Nation Environmental Programs

Timothy Miller

Project Location: Skiatook Project Number: NA

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrou
001	01-01	Layered	Black Tar	Asbestos Not Present	NA	Tar
001a		Layered	Black Shingle	Asbestos Not Present	Glass Fiber 20	Tar Sand CaCO3
002	02-01	Homogeneous	White Caulk	Asbestos Not Present	NA	CaCO3 Binder
003	03-01	Homogeneous	Clear Caulk	Asbestos Not Present	NA	Silicone
004	04-01	Homogeneous	Clear Caulk	Asbestos Not Present	NA	Silicone
005	05-01	Homogeneous	Blue Wall Paper	Asbestos Not Present	Cellulose 80	Binder
006	06-01	Homogeneous	White Joint Compound	Asbestos Present Chrysotile 3	NA	CaCO3 Paint

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis. QuanTEM is a NVLAP accredited Testing PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA—40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples; and EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials. This report may not be used to claim product endorsement by NVLAP or any agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory. If submitted samples are inhomogeneous in nature, then subsamples of the components will be analyzed separately. Samples determined to contain asbestos fibers, will have the following acceptable error ranges (1% = 0-3%, 5% = 1-9%, 10% = 5-15%, 20% = 10-30%, 50% = 40-60%, etc.) as specified per EPA Method 600/R-93/116, Table 2-1.



7021 W. Wilshire Blvd, Ste. B / Oklahoma City, OK 73132 / 405-755-7272

### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 385047

C162

Account Number:

11/20/2025

Date Received: Received By:

Charlie Johnson

Date Analyzed:

11/24/2025

Analyzed By: Methodology: Cassie Sanborn

EPA/600/R-93/116

Project Location: Skiatook

Project Number: NA

**OuanTEM** Sample ID

Client

Sample ID

Composition

Color / Description

Asbestos (%)

Non-Asbestos Fiber (%)

Client: Cherokee Nation Environmental Programs

Timothy Miller

Non Fibrous

007

Gray

Asbestos Present

15

NA

CaCO3

07-01

Homogeneous

Siding

Chrysotile

Sand

Paint

Cassie Sanboy

Cassie Sanborn, Laboratory Analyst

11/24/2025

Date of Report

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis. QuanTEM is a NVLAP accredited Testing PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples; and EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials. This report may not be used to claim product endorsement by NVLAP or any agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory. If submitted samples are inhomogeneous in nature, then subsamples of the components will be analyzed separately. Samples determined to contain asbestos fibers, will have the following acceptable error ranges (1% = 0-3%, 5% = 1-9%, 10% = 5-15%, 20% = 10-30%, 50% = 40-60%, etc.) as specified per EPA Method 600/R-93/116, Table 2-1.



# **ASBESTOS CHAIN OF CUSTODY**

Page 1 of

7021 W. Wilshire Blvd, Suite B, Oklahoma City, OK 73132 (800) 872-1650 (400) 872-1650

			(800) 82.	2-1650 • (405) 755-	(800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058	05) 755-205	8.		For Lab Use Only	ylu
www.Quan	QuanTi	8 O R A T O R I E S www.QuanTEM.com	LEGAL	DOCUMENT	AL DOCUMENT - PLEASE PRINT LEGIBLY	T LEGIBL	<b>&gt;</b> -		Lab No. 38509. Accept Reje	Peject
	ပိ	Contact Information				Project	Project Information		Report Recults (V) and House	lyod out
Company: Cherokee Nation	Envir	Cherokee Nation Environmental Programs	Phone: (9'	918) 207-4934					OuanTEM Website	bsite
Contact: Timothy Miller			Cell Phone: (9'	(918) 570-9545	Project Location: Skiatook	iatook			Email timothy-millor@chorokoo.org	r@chorokoe.org
Account #: C 162			E-mail: timothy-	E-mail: timothy-miller@cherokee.org	-					
SAMPLED BY: Name: Timothy Miller	hy Mil	ler	Date: 11/18	11/18/2025	::	916621				
RELINQUISHED BY	SHED	87	DATE & TIME	IME	VIA		RECEIVED 8*	( **C	DATE & TIME	TIME
Timothy Miller	y Mille	jr.	11/19/25(	5@11AM	Fedex	V	20			
			REQUESTED	REQUESTED SERVICES (PIE	(Please 🗹 the Appropriate Boxes)	) poriate Bo	)xes)			
PLM		PLM		TEM	5		TEM		THRNAROHND TIME	NO TIME
Bulk Analysis (EPA 600/R-93/116)	(911/	Vermiculite Attic Insulation	ulation	Air- AHERA		Bulk-Pr	Bulk- Presence / Absence EPA600/R-93/116	500/R-93/116	Rush	
400 Point Count		Other		Air- NIOSH 7402	77	Bulk-Q	Bulk-Quantitative [weight%]- Chatfield	Chatfield	Same Day	ay
1000 Point Count				Air- ISO 10312		Dust-P	Dust-Presence / Absence		24 - Hour	ı
Gravimetric Preparation		PCM		Drinking Water- EPA 100.2	r- EPA 100.2	Dust-Q	Dust-Quantitative [fibers/sq.cm]- ASTM D5755	m)- ASTM DS755	3-Dav	
Particle ID		NIOSH 7400		Waste Water- E	Waste Water- EPA 600/4-83-043	Other				
No. Sample ID (10 Characters Max)	☑ To Be Analyzed	Se Color ed		Description	otion	>-	Volume / Area (as applicable)	Comm	Comments / Notes	
01-01	$\overline{\Sigma}$	Gray		Shingle	gle				Roof	
2 02-01	>	White		Caulk	ᆂ			Exteric	Exterior Windows	
3 03-01	>	Clear		Caulk	×			Interior Wing	Interior Windows Outer Trim	8
4 04-01	>	Brown		Caulk	×			Interior Win	Interior Window/ Trim Joint	ıt
5 05-01	>	Blue Floral		Wallpaper	per			He	Hall Bath	
6 06-01	$\overline{\Sigma}$	White		JC	227			Thr	Throughout	
07-01	>	Gray		Cement Siding	Siding			úi	Exterior	
8										
6										
01										
						-				

SATURDAY FEDEX SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8317 • Mark Package "Hold for Saturday Pickup" Please Note - UPS and USPS are NOT available for Saturday Delivery