

CHEROKEE NATION
Environmental Programs



Asbestos Sampling Report

PARTICIPANT: DAVIS, SAMUEL

PREPARED BY:  **DATE:** 7/18/2025
TIMOTHY MILLER, ENVIRONMENTAL SPECIALIST I

REQUESTED BY: HACN HOUSING REHABILITATION –
JAMIE WALTERS

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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:

Samuel Davis
56451 E. Hwy 59, Afton, OK 74331
918-964-1978
Coordinates: 36.68229, -94.86840

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 **July 09, 2025** at the request of the Cherokee Nation Housing Rehabilitation Department.

The site is a single family home built in **1960**. 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.

Friable ACM 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.

Category I Non-friable ACM 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.

Category II Non-friable ACM 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 (cementitious 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.

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

Damaged: 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 from 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, cementitious 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 of one per suspect homogeneous area.
- Collect samples from inconspicuous locations.
- Material such as cementitious 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 20 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.

Table 1. Asbestos Containing Materials					
Sample #	Material Description	Locations	Friability (Friable, NF Cat I NF Cat II)	Condition	Sample Results (% Asbestos)
03-01 To 03-05	Ceiling Texture	Throughout	Friable	Damaged	4
05-01	Drywall	Garage	Friable	Damaged	3

Table 2. Non – Asbestos Containing Materials				
Sample #	Material Description	Locations	Condition	Sample Results (% Asbestos)
01-01	Shingle	Roof	Damaged	None Detected
02-01	Caulk	Fascia	Damaged	None Detected
04-01	Caulk	Bathroom Ceiling	Damaged	None Detected
06-01	Shingle	Gray Ridge Cap	Damaged	None Detected
07-01	Shingle	Brown Ridge Cap	Damaged	None Detected

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.



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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 380890

Client: Cherokee Nation Environmental Programs
Timothy Miller

Account Number: C162

Date Received: 07/14/2025

Received By: Charlie Johnson

Date Analyzed: 07/16/2025

Project: Samuel Davis

Analyzed By: Cassie Sanborn

Project Location: Afton

Methodology: EPA/600/R-93/116

Project Number: NA

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
001	01-01	Homogeneous	Brown 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	Layered	White Ceiling Texture	Asbestos Present Chrysotile 4	NA	CaCO3 Mica Paint
003a		Layered	Tan Joint Compound	Asbestos Present Chrysotile 3	NA	CaCO3
003b		Layered	White Drywall	Asbestos Not Present	Cellulose 10	Gypsum
004	03-02	Layered	White Ceiling Texture	Asbestos Present Chrysotile 3	NA	CaCO3 Paint
004a		Layered	White Drywall	Asbestos Not Present	Cellulose 10	Gypsum

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 and EPA/600/R-93/116 methods.
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Project Number: NA

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
005	03-03	Homogeneous	White Ceiling Texture	Asbestos Not Present	NA	CaCO ₃ Paint
006	03-04	Layered	White Ceiling Texture	Asbestos Not Present	NA	CaCO ₃ Paint
006a		Layered	White Joint Compound	Asbestos Not Present	NA	CaCO ₃
006b		Layered	White Drywall	Asbestos Not Present	Cellulose 10	Gypsum
006c		Layered	White Insulation	Asbestos Not Present	Glass Fiber 100	
007	03-05	Layered	White Ceiling Texture	Asbestos Present Chrysotile 4	NA	CaCO ₃ Mica Paint

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Methodology: EPA/600/R-93/116

Project: Samuel Davis

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Project Number: NA

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
007a		Layered	White Drywall	Asbestos Not Present	Cellulose 10	Gypsum
008	04-01	Homogeneous	White Caulk	Asbestos Not Present	NA	CaCO3 Binder
009	05-01	Layered	White Texture	Asbestos Present Chrysotile 3	NA	CaCO3 Paint
009a		Layered	White Drywall	Asbestos Not Present	Cellulose 10	Gypsum
010	06-01	Homogeneous	Gray Shingle	Asbestos Not Present	Glass Fiber 20	Tar Sand CaCO3
011	07-01	Layered	Brown Shingle	Asbestos Not Present	Glass Fiber 20	Tar Sand CaCO3
011a		Layered	Black Tar	Asbestos Not Present	NA	Tar

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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 380890

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Client: Cherokee Nation Environmental Programs
Timothy Miller

Date Received: 07/14/2025

Received By: Charlie Johnson

Date Analyzed: 07/16/2025

Analyzed By: Cassie Sanborn

Methodology: EPA/600/R-93/116

Project: Samuel Davis

Project Location: Afton

Project Number: NA

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
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Cassie Sanborn

Cassie Sanborn, Laboratory Analyst

7/16/2025

Date of Report

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Page 1 of 2

For Lab Use Only	
Lab No. <u>380890</u>	Accept <input checked="" type="checkbox"/> Reject <input type="checkbox"/>

Report Results (<input checked="" type="checkbox"/> one box)	
<input type="checkbox"/> QuanTEM Website	<input checked="" type="checkbox"/> Email <u>timothy-miller@cherokee.org</u>
<input type="checkbox"/> Other _____	

Contact Information		Project Information	
Company: Cherokee Nation Environmental Programs	Phone: (918) 207-4934	Project Name: Samuel Davis	
Contact: Timothy Miller	Cell Phone: (918) 570-9545	Project Location: Afton	
Account #: C 162	E-mail: <u>timothy-miller@cherokee.org</u>	Project ID:	
SAMPLED BY: Name: Timothy Miller	Date: 07/09/2025	P.O. Number: 896007	

RELINQUISHED BY	DATE & TIME	VIA	RECEIVED BY	DATE & TIME
Timothy Miller	07/10/25@11AM	Fedex		7/12/25 1015

REQUESTED SERVICES (Please ☒ the Appropriate Boxes)

PLM		PLM		TEM		TEM		TURNAROUND TIME	
<input checked="" type="checkbox"/> Bulk Analysis (EPA 600/R-93/116)	<input type="checkbox"/> Vermiculite Attic Insulation (EPA 600/R-04/004)	<input type="checkbox"/> Air- AHERA	<input type="checkbox"/> Bulk- Presence / Absence EPA600/R-93/116	<input type="checkbox"/> Rush		<input type="checkbox"/> Bulk- Quantitative [weight%]- Chatfield	<input type="checkbox"/> Same Day		
<input type="checkbox"/> 400 Point Count	<input type="checkbox"/> Other	<input type="checkbox"/> Air- NIOSH 7402	<input type="checkbox"/> Dust- Presence / Absence	<input type="checkbox"/> 24 - Hour		<input type="checkbox"/> Dust- Quantitative [fibers/sq.cm]- ASTM D5755	<input checked="" type="checkbox"/> 3 - Day		
<input type="checkbox"/> 1000 Point Count		<input type="checkbox"/> Air- ISO 10312	<input type="checkbox"/> Drinking Water- EPA 100.2	<input type="checkbox"/> 5 - Day		<input type="checkbox"/> Other			
<input type="checkbox"/> Gravimetric Preparation	<input type="checkbox"/> PCM	<input type="checkbox"/> Waste Water- EPA 600/4-83-043							
<input type="checkbox"/> Particle ID	<input type="checkbox"/> NIOSH 7400								

No.	Sample ID (10 Characters Max)	To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
1	01-01	<input checked="" type="checkbox"/>	Brown	Shingle		Roof
2	02-01	<input checked="" type="checkbox"/>	White	Caulk		Fascia
3	03-01	<input checked="" type="checkbox"/>	White	Ceiling Texture		Throughout
4	03-02	<input checked="" type="checkbox"/>	White	Ceiling Texture		Throughout
5	03-03	<input checked="" type="checkbox"/>	White	Ceiling Texture		Throughout
6	03-04	<input checked="" type="checkbox"/>	White	Ceiling Texture		Throughout
7	03-05	<input checked="" type="checkbox"/>	White	Ceiling Texture		Throughout
8	04-01	<input checked="" type="checkbox"/>	White	Ceiling Caulk		Bathroom
9	05-01	<input checked="" type="checkbox"/>	Brown	Drywall		Garage (Breaker Box)
10	06-01	<input checked="" type="checkbox"/>	Gray	Shingle		Ridgecap

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



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For Lab Use Only	
Lab No. _____	Accept <input type="checkbox"/> Reject <input type="checkbox"/>

Project Information						
Company: Cherokee Nation Environmental Programs			Project Name: Samuel Davis	Project Location: Afton		
No.	Sample ID (10 Characters Max)	<input checked="" type="checkbox"/> To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
11	07-01	<input checked="" type="checkbox"/>	Brown	Shingle		Ridgecap
12		<input type="checkbox"/>				
13		<input type="checkbox"/>				
14		<input type="checkbox"/>				
15		<input type="checkbox"/>				
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