

# **ASBESTOS CHAIN OF CUSTODY**

2033 Heritag (800) 822-16

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Contact Information		Project Information	Report Results (☑ one box)
Company: Cherokee Nation Environmental Programs Phone:		(918) 453-6140 Project Name: Allen Hintz	QuanTEM Website
Contact: Logan Girty	Cell Phone: (918) 772-8346 Project Location: Bluejacket	Project Location: Bluejacket	V Email logan-girty@cherokee.or
Account #: C 162	E-mail: logan-girty@cherokee.org Project ID:	Project ID:	Other
SAMPLED BY: Name: Logan Girty	Date: 5/1/2023	P.O. Number: 289269	
RELINQUISHED BY 7	DATE & TIME	VIA RECEIVED BY	DATE & TIME
Joan E. Ma	5/1/2023 F	FedEx Jones Working	53/13 @ 10
	2:30 Pm		
	REQUESTED SERVICES (Ple	ESTED SERVICES (Please ☑ the Appropriate Boxes)	

	PLM		PLM		TEM	TEM	1	TURN	TURNAROUND TIME
	Bulk Analysis (EPA 600/R-93/116)	3/116)	Vermiculite Attic Insulation	ition	Air- AHERA	Bulk- Presence / Absence EPA600/R-93/116	EPA600/R-93/116		Rush
	400 Point Count	J  L	CEPA 600/R-04/004)		Air- NIOSH 7402	Bulk- Quantitative [weight%]- Chatfield	r%]- Chatfield		Same Day
	1000 Point Count				Air-150 10312	Dust- Presence / Absence			24 - Hour
	Gravimetric Preparation		PCM		Drinking Water- EPA 100.2	Dust- Quantitative [fibers/sq.cm]- ASTM D5755	/sq.cm]- ASTM D5755	>	3 - Day
	Particle ID		NIOSH 7400		Waste Water- EPA 600/4-83-043	Other			5 - Day
No.	Sample ID (10 Characters Max)	☑ To Be Analyzed	Color		Description	Volume / Area (as applicable)	Comments / Notes	s / No	tes
_	01-01	>	Black		Shingle		Roof	of O	
7	02-01	>	Black		Felt Paper		Roof	of	
m	03-01	>	Tan		Formica Countertop		Kitchen	neu	
4	04-01	>	Green		Vinyl Floor Tile		Bath	무	
2	05-01	<u>&gt;</u>	White		Drywall Ceiling		Bath	t <del>,</del>	
9	06-01	>	White		Ceiling Tile Texture		Bath/Dining	ining	
7	07-01	>	Tan		Cementitious Siding		Garage Exterior	Exteri	or
00	08-01	>	Tan		Fireproof Brick		Chimney	ney	
6	09-01	>	Gray		Concrete		Foundation	ation	
10									
1									

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



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 1.800.822.1650

### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 358079

Client: Cherokee Nation Environmental Programs

Account Number:

C162

Logan Girty

Date Received:

05/03/2023

PO Box 948

Tahlequah, OK 74464

Received By:

Courtney Holman

Date Analyzed:

05/05/2023

Project: Allen Hintz

Analyzed By:

Benjamin Hill

Project Location: Bluejacket

Methodology:

EPA/600/R-93/116

Project Number: 289269

Non-Asbestos Non Fibrous

QuanTEM Sample ID

Client Sample ID

Composition

Color / Description

Asbestos (%)

Fiber (%)

Cellulose

Glass Fiber

005a

Layered

White

Asbestos Not Present

006

06-01 Homogeneous Sheetrock

White

Ceiling Tile

Asbestos Not Present

Cellulose 50

Perlite Paint 30

Gypsum

007

07-01

Homogeneous

Tan

Asbestos Present

NA

CaCO3

Siding

Chrysotile

20

Sand

008

08-01

Homogeneous

Tan Brick Asbestos Not Present

NA

Clay Sand

009

09-01

Homogeneous

Gray Concrete Asbestos Not Present

NA

Sand CaCO3

Benjamin Hill

Benjamin Hill, Assistant Laboratory Manager

5/5/2023

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/600/M4-82-020 and EPA/600/R-93/116 methods. 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.



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 1.800.822.1650

### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 358079

Account Number:

C162

Date Received:

05/03/2023

Received By:

Courtney Holman

Date Analyzed:

05/05/2023

Analyzed By: Methodology:

005

05-01

Layered

Benjamin Hill EPA/600/R-93/116

Cherokee Nation Environmental Programs

Logan Girty

PO Box 948

Tahlequah, OK 74464

Project: Allen Hintz Project Location: Bluejacket

Project Number: 289269

QuanTEM Client Color / Non-Asbestos Non Fibrous Sample ID Sample ID Composition Description Asbestos (%) Fiber (%) 001 01-01 Homogeneous Black Asbestos Not Present Cellulose 40 Tar Sand Shingle 002 02-01 Homogeneous Black Asbestos Not Present Cellulose 55 Tar Felt 003 03-01 Layered Tan Asbestos Not Present Cellulose 80 Binder Counter Top

003a		Layered	White Adhesive	Asbestos Not Present	NA	Glue CaCO3
004	04-01	Layered	Green/Blue Floor Tile	Asbestos Not Present	Synthetic	5 CaCO3 Vinyl
004a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Asbestos Present

Chrysotile

2

Cream

Ceiling Texture

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CaCO3

Paint

NA

### **APPENDIX B.**

LABORATORY RESULTS &
CHAIN OF CUSTODY

# National Flood Hazard Layer FIRMette



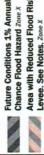
OTHER AREAS OF eff.9/13/2019 40035C0225D T27N R20E S36 T26N R20E S1 **Allen Hintz** ARENOFMINIMALALOCODIHAZARD eff. 9/13/2019 40035C0200D T27N R20E S35 **T26N R20E S2** <u>GraffsGounty</u> Unfincopporated/Areas

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



0.2% Annual Chance Flood Hazard, Areas depth less than one foot or with drainage areas of less than one square mile Zone X of 1% annual chance flood with average Regulatory Floodway



Area with Flood Risk due to Levee Zone D Area with Reduced Flood Risk due to Levee. See Notes. Zone X

FLOOD HAZARD

NO SCREEN Area of Minimal Flood Hazard Zone

Effective LOMRs

Area of Undetermined Flood Hazard Zone D

OTHER AREAS

- - - Channel, Culvert, or Storm Sewer STRUCTURES | 111111 Levee, Dike, or Floodwall GENERAL

Cross Sections with 1% Annual Chance Water Surface Elevation 17.5

Coastal Transect

Base Flood Elevation Line (BFE) : Limit of Study moon Elis moon

Coastal Transect Baseline Jurisdiction Boundary

Hydrographic Feature Profile Baseline

OTHER

**FEATURES** 

Digital Data Available

No Digital Data Avallable

Unmapped

MAP PANELS

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown compiles with FEMA's basemap

authoritative NFHL web services provided by FEMA. This map reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or The flood hazard information is derived directly from the was exported on 4/4/2023 at 3:56 PM and does not become superseded by new data over time. This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, FIRM panel number, and FIRM effective date. Map images for legend, scale bar, map creation date, community identifiers, unmapped and unmodernized areas cannot be used for regulatory purposes.

95°7'14"W 36°46'4"N

Basemap: USGS National Map: Ortholmagery: Data refreshed October, 2020

1:6,000

Table 1.	Asbestos Containing Materials	1			
Sample #	Material Description	Locations	Friability (Friable, NF Cat I NF Cat II)	Condition	Sample Results (% Asbestos)
05-01	Drywall Ceiling	Bath	Friable	Damaged	2% Chrysotile
07-01	Cementitious Siding	Garage Exterior	NF Cat II	Damaged	20% Chrysotile

Table 2.	Table 2. Non – Asbestos Containing Materials						
Sample #	Material Description	Locations	Condition	Sample Results (% Asbestos)			
01-01	Shingle	Roof	Damaged	None Detected			
02-01	Felt Paper	Roof	Damaged	None Detected			
03-01	Formica Countertop	Kitchen	Damaged	None Detected			
04-01	Vinyl Floor Tile	Bath	Damaged	None Detected			
06-01	Ceiling Tile Texture	Bath/Dining	Damaged	None Detected			
08-01	Fireproof Brick	Chimney	Damaged	None Detected			
09-01	Concrete	Foundation	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.

- 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. <u>SUMMARY OF FINDINGS</u>

A total of 9 samples were analyzed from 9 homogeneous areas due to multi-layers of material within some homogeneous sample areas. Photographs of all ACM can be found in Appendix C. 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.

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.

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 (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.

### 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:

Allen Hintz 17027 S 4420 Rd, Bluejacket, OK 74333 918-944-6450 Coordinates: 36.7716 / -95.1256

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:

Logan Girty ODOL, AHERA Inspector, License No: OK401597

The sampling was conducted on May 1, 2023 at the request of the Cherokee Nation Housing Rehabilitation Department.

The site is a single family home built in 1923. 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

### **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

# CHEROKEE NATION Environmental Programs



### **Asbestos Sampling Report**

PARTICIPANT: HINTZ, ALLEN

PREPARED BY: Logan Girty DATE: 5/5/2023

LOGAN GIRTY. ENVIRONMENTAL SPECIALIST II

**REQUESTED BY: HACN HOUSING REHABILITATION (HUD) -**

**GEORGE HUBBARD**