

Air Quality Analytical, Inc.

Indoor Air Quality Consulting and Environmental Services



Asbestos Building Inspection Report

Property:

116 S. Topsail Dr.
Surf City, NC

Generated for:

Mr. Kyle Breuer, Town Manager
Town of Surf City
201 Community Center Dr.
Surf City, NC 28445

AQA Project No.: 21-005-0123

Survey Date: January 23, 2021

Report Date: February 10, 2021

Report by: John R. Folger, CIEC
NC Asbestos Building Inspector License No. 11095

Air Quality Analytical, Inc.

Indoor Air Quality Consulting and Environmental Services

February 10, 2021

Mr. Kyle Breuer
Town of Surf City
201 Community Center Dr
Surf City, NC 28445

RE: AQA Job # 21-005-0123: Asbestos Building Inspection, 116 S. Topsail Dr., Surf City, NC.

Related Documents: EMSL analytical laboratory reports dated February 1, 2021.

Mr. Breuer,

On January 23, 2021, Air Quality Analytical (AQA) conducted an asbestos-specific Building Inspection at the above referenced property, per your request. The purpose of this survey was to sample building materials suspected of containing asbestos content prior to demolition of the building.

Background: This inspection process is conducted per requirements of the State of North Carolina Department of Health and Human Services (NCDHHS) Health Hazards Control Unit (HHCU) Asbestos Branch regulates the inspection of and abatement of asbestos materials whereby all National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulatory requirements apply. This survey will meet the requirements of the Asbestos NEHSAP Regulation (40 CFR 61 subpart M).

The inspection consisted of the following activities:

1. A visual inspection of the structure to identify suspect asbestos containing materials
2. The collection and catalog of bulk samples of each suspect material:
3. Physical Assessment of the suspect Asbestos Containing Building Materials (ACBM)
4. Creation of Chain of Custody forms to be attached to
5. PLM analysis of samples by a certified NVLAP laboratory
6. A report including laboratory sample analysis of the bulk samples collected, physical assessment, and digital photographic log of sample collection

Attached is a detailed report providing information required by the North Carolina Health and Human Services (NCHHS) Health Hazards Control Unit (HHCU) Asbestos Branch. If you have any questions regarding this report or the information provided herein please contact me at your convenience.

Sincerely,



.....
Electronically Signed by:
John R. Folger
NC Asbestos Inspector #11095
February 10, 2021
.....

John R. Folger, CIEC,
NC Asbestos Inspector Accreditation 11095

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1.0 Executive Summary: Building Materials Assessment (requirement of EPA 40 CFR 763.85): The building is the current Community Development Building. The building was likely built in the 1960's or 1970s. It is a one-story building with a steel structure. The interior of the building has concrete sub-flooring, vinyl floor tile, carpet, and linoleum are applied to the concrete sub-flooring throughout the building. The building's ceilings have wallboard, ceiling tile, and ceiling texturing applied throughout. Interior wallboard materials are gypsum with joint compound applied to nails and edging, and wood paneling. The roof is flat with a rubberized layment applied over plywood. There are two layers to the roof each with Transite® siding applied to the roof eaves. The exterior siding is cement block. The building is currently occupied.

2.0 Assessment Methods: Visual and physical assessment was conducted in order to identify each separate Homogeneous Materials suspected of containing asbestos content. Homogeneous materials were identified by their color, texture, and location on the building. (NCDHHS) Health Hazards Control Unit (HHCU) guidelines.

3.0 Homogeneous Materials: The following suspect materials were identified: A total of six (6) homogeneous materials were identified and a total of twelve (12) samples were collected.

HM-ID:	Material Desc:	Location:	Material Condition:	Sample No.	Asbestos Detected (Yes/No):
HM-01	12" Ceiling Tile	Computer Room (IT Room)	Good Friable	005-01 005-02	No
HM-02	12" Ceiling Tile	Front Engineering Office, Office adj. Front Engineering	Good Friable	005-03 005-04	No
HM-03	12" Floor Tile/Glue	AHU Room Break Room	Good Non-Friable	005-05 005-06	Yes <1% Chrysotile (In Tile only)
HM-04	Textured Wall	File Storage (Back Right)	Good Friable	005-07 005-08	No
HM-05	Transite Board	Exterior Eaves (Both Roofs)	Good Friable	005-09	Yes 15% Chrysotile
HM-06	Linoleum Blue/Green/White	Isolated Front Room Right	Good Friable	005-10 005-11	No

4.0 Analysis: Samples were sent to an NVLAP accredited laboratory for analysis via Polarized Light Microscopy utilizing EPA 600/R-93/116 analytical method. Samples with multiple layers are divided and analyzed as separate layers per EPA protocol. Upon completion of analysis a total fifteen (15) samples were analyzed.

5.0 Findings: Asbestos content was identified in the following Homogeneous Materials:

HM-03*: 12" Floor Tile. <1% Chrysotile. These materials are applied in the AHU Room, and the Break Room and cover an approx. 195 sq. ft. of floor space.

HM-05: Exterior Eaves, Transite Panel Boards, 15% Chrysotile. These materials cover an approx. 530 sq. ft. applied to the eaves. These materials can become friable with aggressive abatement techniques, and they must be removed by NC Accredited personnel prior to demolition of the structure.

Caveat: **HM-03*:** These materials are not considered asbestos containing materials by the Environmental Protection Agency (EPA), or North Carolina Department of Environment, and Natural Resources-Health Hazards Control Unit, Asbestos Branch; however, they are considered asbestos containing by the North Carolina Occupational Safety and Health Administration (OSHA). These materials must be removed by Asbestos Certified Individuals prior to demolition of the structure. These materials do not have to be disposed of as asbestos containing materials.

The State of North Carolina (NCDENR) Health Hazards Control Unit, Asbestos Branch, requests that a visual inspection is conducted by a Competent 3rd Party Individual subsequent to abatement completion to ensure that all of the identified asbestos containing building materials were completely removed. AQA offers this service.

Closing Statements: If additional suspect materials are identified during the process of demolition. The NC Health Hazards Control Unit, Asbestos Branch requires that work be stopped to allow to the suspect materials be sampled and analyzed for asbestos content before they are disturbed.

Sample Chain of Custody forms, Laboratory Sample Reports, Photographic log are appended. If you have any questions regarding the information provided, please contact Air Quality Analytical, Inc. at (910) 431-1019 or e-mail us at jfolger@ec.rr.com to address your questions or concerns.

Photographic Log:



HM-05: Exterior Eaves, Transite® Asbestos Paneling, 15% Chrysotile.



HM-05: Transite® Asbestos Paneling. See paneling applied to upper roof also.



HM-05: Transite® paneling applied to eaves.



HM-01/HM-02: 12" Ceiling Tile applied in various room areas. Non-asbestos.



Carpet applied to concrete. Not a suspect asbestos containing material (ACM).



Ceramic Tile applied to concrete in the Bathroom. Not a suspect ACM.



12" Ceiling Tile. Cellulose Backed. Not a suspect ACM.



Isolated Room, Front Right side of the Building.



HM-06: Linoleum (Blue/Green/White). Applied in one additional room. Non-asbestos containing material.



Rubberized Roof over Plywood. Not a Suspect ACM.

HM-03 (Asbestos Floor Tile <1%), and HM-04 (Non-asbestos Wall Texturing), are not identified in the Photographic Log.

Air Quality Analytical, Inc.

Indoor Air Quality Consulting and Environmental Services

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 E-mail: Anya.folger@gmail.com
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LABORATORY TEST REQUEST

AQA Job #: 21-005-0123

Account: Town of Surf City

Address: 204 N. Topsail Dr., Surf City, NC

Contact: Kyle Breuer

E-mail/ Tel. (910) 328-4131 ext. 100

Kbreuer@SurfCityNC.gov

Project: 116 S. Topsail Dr., Surf City, NC

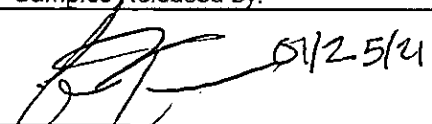

Collected By: John Folger	Tel.: (910) 431-2062	email to: jfolger01@gmail.com	Shipped: 1/25/2021
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SAMPLE TYPE: Asbestos Bulk (PLM)	NUMBER OF SAMPLES: 11	TURN AROUND TIME SPECIFIED: <input type="checkbox"/> Immediate <input type="checkbox"/> 6hr <input type="checkbox"/> 24hr <input checked="" type="checkbox"/> 48 <input type="checkbox"/> 3-5 day <input type="checkbox"/> Regular
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IL INSTRUCTIONS: Please Stop at 1st Positive for each HM.

Client: Air Quality Analytical
 Order: 292100948
 Disposition: Discard after 3/30/2021
 Test: PLM
 #Samples: 11
 Project: 21-005-0123, 116 S. Topsail Dr, Surf City, NC

Sample Number	Sample Location	Sample Description	Collect Date	Homogeneous Material	Lab Analysis Requested
005-01	Computer Room, Ceiling Tile		1/23/2021	HM-01	PLM
005-02	Computer Room, Ceiling Tile		1/23/2021	HM-01	PLM
005-03	Office Adj., Front Eng. Office, Ceiling Tile		1/23/2021	HM-02	PLM
005-04	Front Office, Engineering, Ceiling Tile		1/23/2021	HM-02	PLM
005-05	AHU Room, 12" Floor Tile/Glue		1/23/2021	HM-03	PLM
005-06	Break Room, 12" Floor Tile/Glue		1/23/2021	HM-03	PLM
005-07	File Storage, Textured Wall		1/23/2021	HM-04	PLM
005-08	File Storage, Textured Wall		1/23/2021	HM-04	PLM
005-09	Exterior, Eaves, Transite		1/23/2021	HM-05	PLM
005-10	Isolated Front Room, Linoleum		1/23/2021	HM-06	PLM
005-11	Isolated Front Room, Linoleum		1/23/2021	HM-06	PLM

Sample Condition:	Samples Released by:	Samples Received By:
Good, Double Bagged	 5/25/21 SIGNATURE	 1/29/21 Jpb SIGNATURE

USM



EMSL Analytical, Inc.

2500 Gateway Centre Blvd., Suite 600 Morrisville, NC 27560

Tel/Fax: (919) 465-3900 / (919) 465-3950

<http://www.EMSL.com> / raleighlab@emsl.com

EMSL Order: 292100948

Customer ID: AIRQ66

Customer PO:

Project ID:

Attention: John Folger
Air Quality Analytical
3411 Marsh Hawk Court
Wilmington, NC 28409

Phone: (910) 431-1019

Fax: (910) 392-3557

Received Date: 01/29/2021 4:00 PM

Analysis Date: 02/01/2021 - 02/02/2021

Collected Date: 01/23/2021

Project: 21-005-0123, 116 S. Topsail Dr, Surf City, NC

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
005-01 <small>292100948-0001</small>	Computer Room, Ceiling Tile	Gray/White Fibrous Homogeneous	30% Cellulose 40% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
005-02 <small>292100948-0002</small>	Computer Room, Ceiling Tile	Brown/White Fibrous Homogeneous	30% Cellulose 40% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
005-03 <small>292100948-0003</small>	Office Adj. Front Eng. Office, Ceiling Tile	Gray/White Fibrous Homogeneous	30% Cellulose 40% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
005-04 <small>292100948-0004</small>	Front Office, Engineering, Ceiling Tile	Brown/White Fibrous Homogeneous	30% Cellulose 40% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
005-05-Floor Tile <small>292100948-0005</small>	AHU Room, 12" Floor Tile/Glue	Gray/Pink/Beige Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	<1% Chrysotile
005-05-Mastic <small>292100948-0005A</small>	AHU Room, 12" Floor Tile/Glue	Tan Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
005-06-Floor Tile <small>292100948-0006</small>	Break Room, 12" Floor Tile/Glue	Brown Non-Fibrous Homogeneous		10% Ca Carbonate 10% Gypsum 80% Non-fibrous (Other)	<1% Chrysotile
005-06-Mastic <small>292100948-0006A</small>	Break Room, 12" Floor Tile/Glue	Yellow Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
005-07 <small>292100948-0007</small>	File Storage, Textured Wall	White Non-Fibrous Homogeneous		30% Quartz 40% Ca Carbonate 30% Non-fibrous (Other)	None Detected
005-08 <small>292100948-0008</small>	File Storage, Textured Wall	White Non-Fibrous Homogeneous		10% Quartz 40% Ca Carbonate 50% Non-fibrous (Other)	None Detected
005-09 <small>292100948-0009</small>	Exterior, Eaves, Transite	Gray Fibrous Homogeneous		40% Ca Carbonate 45% Non-fibrous (Other)	15% Chrysotile
005-10-Linoleum <small>292100948-0010</small>	Isolated Front Room, Linoleum	White/Blue Fibrous Homogeneous	30% Cellulose 10% Glass	60% Non-fibrous (Other)	None Detected
005-10-Mastic <small>292100948-0010A</small>	Isolated Front Room, Linoleum	Tan Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
005-11-Linoleum <small>292100948-0011</small>	Isolated Front Room, Linoleum	White Fibrous Homogeneous	25% Cellulose 10% Glass	65% Non-fibrous (Other)	None Detected
005-11-Mastic <small>292100948-0011A</small>	Isolated Front Room, Linoleum	Gray/Tan Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected

Initial report from: 02/02/2021 14:24:03



EMSL Analytical, Inc.

2500 Gateway Centre Blvd., Suite 600 Morrisville, NC 27560

Tel/Fax: (919) 465-3900 / (919) 465-3950

<http://www.EMSL.com> / raleighlab@emsl.com

EMSL Order: 292100948

Customer ID: AIRQ66

Customer PO:

Project ID:

Analyst(s)

Billy Barnes (7)

Joshua Moorman (8)

Billy Barnes, Asbestos Lab Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. 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 or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Morrisville, NC NVLAP Lab Code 200671-0, VA 3333 000278, WVA LT000296

Initial report from: 02/02/2021 14:24:03