

EMSL Analytical, Inc.

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Attention: Kim Duncan Auction & Realty

123 S. 10th St. Suite 318 Mount Vernon, IL 62864

EMSL Order: 392007470 Customer ID: MISC-SC

Customer PO: Project ID:

> Phone: (618) 521-7818

> > Fax:

Received Date: 08/13/2020 10:37 AM

08/18/2020 Analysis Date:

Collected Date:

Project: Kim Duncan Auction and Realty

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

		Non-Asbestos			<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
1		Various		18% Mica	None Detected
		Non-Fibrous		82% Non-fibrous (Other)	
392007470-0001		Homogeneous			
Vermiculite is a proble	em matrix. Other analytical option	is are recommended such as	EPA 600 PLM/TEM with mills	ng prep or TEM Qualitative.	

Analyst(s) Sue Ferrario (1)

Jeff Siria, Laboratory 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. Saint Louis, MO NVLAP Lab Code 200742-0

(Initial report from: 08/18/2020 16:12:14

11794 East Richview Road Maintenance

Septic system:

Norm Fowler serviced the system annually 1999-2006 including the replacement of parts and motors.

RichviewConcrete installed:

2011 new motor, bucket and lid: \$1120.
2014 new Jet Motor aerator, replace lift station and alarm: \$2000

Fence

Chain Fence Southern Illinois fence 35 foot chain link December 2001 \$1200

Roof

M and K Roofing (MikeKimmel) Sept 1999-- Installed 77 square feet o/d shingles Oakridge; SBS rubber in the valleys--- \$5500.00

<u>Lane and Shelton on January 2002- Installed 1 bundle pewter grey dimentional shingles that blew off</u> \$250

Metcalf roofing and construction- 2008 Replaced 12 ft. fascia metal and cemented all the way around the silo.

<u>Lane and Shelton</u> – March 2016 Replaced blown off shingles GAF Brand Pewter Grey. Used 2 buckets of Karnac roof cement to cement around the silo \$450

Electric/Gas

White lightning Purcell KT electric

Pool

Handyman Charles Bravard and his son-maintained the pool with Evergreen etc WaterWorld added systems and pool liner and cover \$2975.00

Southern Comfort installed the heater to heat up the water in the pool.

Southern Comfort to maintain and winterized the pool 2013.

Rightnowar serviced the pool heater in 2009

2001 Southern Comfort installed a Hot Springs Spa

Central air systems---

The heating and air conditioning systems appeared to work well in $\,$ 2016. (* note the Donan HVAC forensic report for some of the units) .

<u>Airex Heating and Air</u> installed Carrier Model 58MCA100-16 90% efficient furnace and condenser in 2003 for \$2012 (furnace in the garage, condenser is outside to the north of the garage) which heated or cooled the areas of the kitchen, living area.

<u>Yukon</u> installed a Carrier (?) condenser A/C in 2002 for \$1302 (located south of the pool room and east of the family room) which cooled the family room and the main bedroom.

<u>Holloway</u> installed an Amana furnace with air bear filter in 1999 --- heated the family room and the main bedroom for \$2099. In the basement is the Rudd (original to the purchase of the house) in 1999 Holloway installed a blower motor for the Rudd furnace which heated the pool room (was not needed because the heated water was adequate from the pool heater installed by Southern Comfort and Weilt plumbing.

In the attic of the double sink bathroom

<u>Affordable H and C</u>--- December 2014 Upstairs furnace: Ruud 90000 BTU up-flow furnace 95% for \$2000 which warmed the upstairs three bedrooms and bathrooms.

The condenser to the west of the house worked during 2016 (it was a bit noisy but worked well).

Flue corrections made as necessary for the furnaces. Service calls were done by Airex, Holloway, Rightnowar and Affordable Heating and Cooling.

Alarm System- hardwired

Security alarm

A-1 Exterminators

No termites found Serviced in 1998 with 10 year warranty Serviced in 2015 with 10 year warranty

Plumbing for the water heaters, pool, bathrooms and kitchen serviced by

Wielt Nadaski Crawford John G. Donan, Jr., P.E. Chairman of the Board

J. Lyle Donan, P.E. President, CEO



CORRESPOND TO: HVAC Forensics 12450 Lake Station Place Louisville, Kentucky 40299 Phone: 800-482-5611

Fax: 502-267-6976

October 3, 2016

At your request, on September 30, 2016, a study was made at the above location to determine whether the failure of the insured's heating, ventilating, and air conditioning (HVAC) system was the result of a lightning discharge or similar event.

Reported Collateral Damage

Items listed as failed: None reported.

Air Conditioner Description

Brand:

Carrier

Model:

597ANX030000AAAA

Serial Number:

2491E20781

Capacity:

2.5 ton

Manufacture Date:

June 1991

Refrigerant:

R-22









Findings - Air Conditioner

General Condition: The unit's condition was typical for its age and use.

Wiring: The wiring connections were tight and properly made.

Contactor: The contactor displayed wear typical for its age and

use. The resistance of the solenoid coil was within its

normal limits.

Capacitor: The dual run capacitor measured within its rated

tolerances. The fan capacitor has failed.

Fan Motor: The fan motor was in good condition. It rotated

unimpeded and tested normal.

Compressor: The compressor was energized during the site study

without tripping the circuit breaker. The winding resistances were within their typical range. The insulation test indicated that the windings were within

an operable range.

Refrigerant: The refrigerant pressures and quantities were normal.

Furnace Description

Brand: Rund

Model: R95PA0851521MSA

Serial Number: W391409882

Manufacture Date: September 2014
Position: Up-flow

Position: Up-flow Location: Basement

Findings - Furnace

General Condition: The unit's condition was typical for its age and use.

Wiring: The wiring had tight and properly-made connections.

Control Board: The control board responded to calls from the

thermostat.

Transformer: The transformer was operational.

Gas Valve: The gas valve was operational.

Blower Motor: The blower motor was operational; amp draw was

recorded during the site study.

Estimated Replacement Costs

ReplacementEstimated Cost5-ton furnace:\$2,550

This report is based on relevant information known to Donan at the time the report is issued. Donan reserves the right to amend or supplement this report if additional relevant information becomes available.

We appreciate your confidence in our professional services.

Sincerely,

DONAN ENGINEERING CO., INC.

Kenneth Powers

Kenneth R. Powers Forensic Technician

John G. Donan, Jr., P.E. Chairman of the Board

J. Lyle Donan, P.E. President, CEO



CORRESPOND TO: HVAC Forensics 12450 Lake Station Place Louisville, Kentucky 40299 Phone: 800-482-5611 Fax: 502-267-6976

October 3, 2016

Dear Mr. Nicklin:

At your request, on September 30, 2016, a study was made at the above location to determine whether the failure of the insured's heating, ventilating, and air conditioning (HVAC) system was the result of a lightning discharge or similar event.

Reported Collateral Damage

Items listed as failed: None reported.

Air Conditioner Description

Brand:

Ruud

Model:

UAKA060JAZ

Serial Number:

5721F250208034

Capacity:

5 ton

Manufacture Date:

June 2002

Refrigerant:

R-22









Blower Blades:

The condition of the blades was typical for their age

Thermostat:

The thermostat was operational.

HVAC Systems Findings Summary

The HVAC system has not been damaged by a lightning-induced power surge. The HVAC system has failed due to normal wear and tear.

Recommendations:

The HVAC system can be repaired: replace the fan

Estimated Repair Costs

Repair	
Service call:	Estimated Cost
Replace the fan capacitor:	\$185
Total estimated repair costs:	\$145
1 . 00363.	\$330