

Herrick Engineering, Inc.
526 Lochness Lane
Cary, NC 27511-5418

office 919/460-7276
mobile 919/801-4062
rherrick@mindspring.com

January 17, 2014

Tracy M. Burnett, Director
Department of Parks and Recreation
Chatham County
P. O. Box 1783
Pittsboro, NC 27312

Re: Short Term/Special Events Service Agreement dated 12/12/2013
Department of Parks and Recreation
Asbestos Evaluation and Testing
Unoccupied Buildings at Briar Chapel Park

Dear Ms. Burnett:

Herrick Engineering has been retained by Chatham County to conduct an asbestos survey of these facilities in anticipation of demolition or use as fire training structures. The report, contained in this letter report, will be sufficient to define the State of North Carolina, EPA and OSHA implications that would affect the future use of these buildings.

There are four unoccupied buildings on this property that were part of the original farm buildings. They are the original two story house, a shop/pantry, a barn and a feed shed. On January 14, 2014 I personally inspected these buildings and sampled building materials that were suspect for asbestos. In accordance with State of North Carolina requirements, duplicate samples were collected from each of these building materials that were analyzed. The samples were submitted for analysis to EMSL, Inc. in Morrisville, NC. This lab is properly accredited for this work. The laboratory reports are attached.

The barn and feed shed buildings contain no asbestos materials. The shop/pantry has no asbestos materials in its construction but there is a stack of some two dozen one foot by three foot Transite siding shingles on the floor near the south entry door of the building. Transite is a known asbestos material.

The house is of two story wood frame construction over a crawl space. The vinyl siding on the exterior was applied over the original Transite siding shingles. Inside the house there are no suspect asbestos materials on the second floor. The first floor has asbestos materials in the form of sheet flooring on the back porch, the laundry room and the bathroom. The popcorn ceiling finish on the back porch, the kitchen and the two front bedrooms is an asbestos material.

The demolition of these buildings, whether as a fire training exercise or a simple demolition, would require that asbestos be addressed. The requirement for using an abandoned structure


Environmental Engineering/Industrial Hygiene

January 17, 2014

in a fire training exercise is that all asbestos materials must be removed prior to the burn. The only consideration for the three out buildings would be the removal of the stack of Transite shingles from the shop/pantry building.

The removal of the asbestos materials from the house would be a Permitted asbestos project. All of the exterior's Transite shingles must be removed. Inside the building the sheet flooring would have to be removed from three rooms and the ceilings would have to be removed from four rooms. These removals must be done by accredited personnel (asbestos contractor). At the completion of this asbestos removal the house would be suitable for a fire training burn.

Sincerely,

A handwritten signature in black ink that reads "Robert A. Herrick". The signature is written in a cursive style.

Robert A. Herrick, P.E., CIH
NC Asbestos Inspector No. 10572



CHAIN OF CUSTODY

Asbestos

Revised, January 13, 2000

EMSL Rep: Herrick Engineering, Inc.
 Your Company Name: 526 Lockness Lane
 Street: Cary, NC 27511-5418
 Box #: _____
 City/State: _____ Zip: _____

Phone Results to:
 Name: _____
 Telephone #: _____
 Project Name/Number: Briar Chapel 1512

Third Party Billing requires written authorization from third party

EMSL-Bill to:
 Street: _____
 Box #: _____
 City/State: _____ Zip: _____

Fax Results to: r.herrick@mindsping.com
 Name: BOB HERRICK
 Fax #: _____
 Purchase Order #: _____

MATRIX

TURNAROUND

<input type="checkbox"/> Air	<input type="checkbox"/> Soil	<input type="checkbox"/> Micro-Vac	<input type="checkbox"/> 3 hrs	<input type="checkbox"/> 6 Hours	<input type="checkbox"/> Same Day or 12 Hours*	<input checked="" type="checkbox"/> 24 Hours (1 day)
<input checked="" type="checkbox"/> Bulk	<input type="checkbox"/> Drinking Water		<input type="checkbox"/> 48 Hours (2 days)	<input type="checkbox"/> 72 Hours (3 days)	<input type="checkbox"/> 96 Hours (4 days)	<input type="checkbox"/> 120 Hours (5 Days)
<input type="checkbox"/> Wipe	<input type="checkbox"/> Wastewater		<input type="checkbox"/> 144+ hours (6-10 Days)			

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3-hour tat; please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign an authorization form for this service.
 *12 hours (must arrive by 11:00 a.m Mon - Fri.), Please Refer to Price Quote

PCM - Air <input type="checkbox"/> NIOSH 7400(A) Issue 2: August 1994 <input type="checkbox"/> OSHA w/ TWA <input type="checkbox"/> Other: _____	TEM Air <input type="checkbox"/> AHERA 40 CFR, Part 763 Subpart E <input type="checkbox"/> NIOSH 7402 Issue 2 <input type="checkbox"/> EPA Level II	TEM Water <input type="checkbox"/> EPA 100.1 <input type="checkbox"/> EPA 100.2 <input type="checkbox"/> NYS 198.2
PLM - Bulk <input checked="" type="checkbox"/> EPA 600/R-93/116 <input type="checkbox"/> EPA Point Count <input type="checkbox"/> NYS Stratified Point Count <input type="checkbox"/> PLM NOB (Gravimetric) NYS 198.1 <input type="checkbox"/> NIOSH 9002 <input type="checkbox"/> EMSL Standard Addition	TEM Bulk <input type="checkbox"/> Drop Mount (Qualitative) <input type="checkbox"/> Chatfield SOP - 1988-02 <input type="checkbox"/> TEM NOB (Gravimetric) NYS 198.4 <input type="checkbox"/> EMSL Standard Addition	TEM Microvac/Wipe <input type="checkbox"/> ASTM D 5755-95 quantitative <input type="checkbox"/> Wipe Qualitative
SEM Air or Bulk <input type="checkbox"/> Qualitative <input type="checkbox"/> Quantitative	PLM Soil <input type="checkbox"/> EPA Protocol Qualitative <input type="checkbox"/> EPA Protocol Quantitative <input type="checkbox"/> EMSL MSD 9000 Method fibers/gram	XRD <input type="checkbox"/> Asbestos <input type="checkbox"/> Silica NIOSH 7500
		OTHER <input type="checkbox"/>

Client Sample # (s) 011 - 24 Total Samples #: 24

Relinquished: Bob Herrick Date: 1/14/14 Time: 5:30 PM to FedEx

Received: E. Sp... Date: 1/15/14 Time: 10:45 Am

Relinquished: _____ Date: _____ Time: _____

Received: _____ Date: _____ Time: _____

Herrick Engineering Inc.
 Briar Chapel-1512
 1/15/2014 10:5
 PLM

TAT: 24 Hour Bulk

Order ID: 291400211
 No Samples: 24
 Due: 01/16 10:54 AM
 Fax: 919-882-9140

Asbestos Survey - Field Data Form

Cary, NC 27511

526 Lochness Lane

Herrick Engineering, Inc.

Facility: Briar Chapel Building: Four ID# _____ Inspector: RA Herrick Date: 1/14/14

Homogeneous Area Identifier	Quantity	Description of the Homogeneous Material	Floor	Room	AHRA Material Type			Friability			Current Condition			Future Damage Potential			Normal Occupancy		Sample Numbers
					Surf	TSI	Misc	F	NF I	NF II	Poor	Fair	Good	Severe	Moderate	Slight	Yes	No	
Feed Shed Barn		Siding shingle																01, 02	
		Siding shingle																03, 04	
Shop ①		Roofing Siding tar paper																05, 06	
		Roofing Window glazing																07, 08	
House ②		Sheetrock																09, 10	
	120 SF	Sheet flooring	1	Back Porch														11, 12	
		Popcorn Ceiling	1	Kit. and Front Bedroom														13, 14	
		12" floor tile	1	Kit														15, 16	
		Sheet flooring	1	Laundry Laundry														17, 18	
		12" floor tile	1	Living Room Living Room														19, 20	
		Sheet flooring Black Mastic	1	Laundry Living Room														21, 22	
		Shingles	Roof															23, 24	

① Shop: Approx 30 (1'x3' asbestos (Transite) shingles, stored on floor of south door

② House: Transite siding

**EMSL Analytical, Inc.**

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

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

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

EMSL Order: 291400211

CustomerID: HERR51

CustomerPO:

ProjectID:

Attn: **Bob Herrick**
Herrick Engineering Inc.
526 Lochness Lane
Cary, NC 27511-5418

Phone: (919) 460-7276
 Fax: (919) 882-9140
 Received: 01/15/14 10:54 AM
 Analysis Date: 1/15/2014
 Collected:

Project: Briar Chapel-1512

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
01 291400211-0001	Siding Shingle	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
02 291400211-0002	Siding Shingle	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
03 291400211-0003	Siding Shingle	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
04 291400211-0004	Siding Shingle	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
05 291400211-0005	Siding Tar Paper	Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
06 291400211-0006	Siding Tar Paper	Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
07 291400211-0007	Window Glazing	Gray/Tan Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
08 291400211-0008	Window Glazing	Gray/Tan Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected

Analyst(s)

Billy Barnes (26)

Essie Spencer, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported 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. Interpretation and use of test results are the responsibility of the client. 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. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%
 Samples analyzed by EMSL Analytical, Inc. Morrisville, NC NVLAP Lab Code 200671-0, VA 3333 000278, WVA LT000296

Initial report from 01/15/2014 19:00:34



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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
09 291400211-0009	Sheetrock	Gray Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
10 291400211-0010	Sheetrock	Gray Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
11 291400211-0011	Sheet Flooring	Green Fibrous Homogeneous	40% Cellulose	35% Non-fibrous (other)	25% Chrysotile
12 291400211-0012	Sheet Flooring	Green Fibrous Homogeneous	40% Cellulose	35% Non-fibrous (other)	25% Chrysotile
13 291400211-0013	Popcorn Ceiling	White Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
14 291400211-0014	Popcorn Ceiling	White Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
15-Floor Tile 291400211-0015	12" Floor Tile	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
15-Mastic 291400211-0015A	12" Floor Tile	Clear Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
16-Floor Tile 291400211-0016	12" Floor Tile	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
16-Mastic 291400211-0016A	12" Floor Tile	Clear Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	None Detected
17 291400211-0017	Sheet Flooring	Yellow/Beige Fibrous Homogeneous	40% Cellulose	40% Non-fibrous (other)	20% Chrysotile
18 291400211-0018	Sheet Flooring	Yellow/Beige Fibrous Homogeneous	40% Cellulose	40% Non-fibrous (other)	20% Chrysotile
19 291400211-0019	12" Floor Tile	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
20 291400211-0020	12" Floor Tile	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
21 291400211-0021	Black Mastic	Black Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (other)	None Detected
22 291400211-0022	Black Mastic	Black Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
23 291400211-0023	Shingles	Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (other)	None Detected
24 291400211-0024	Shingles	Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (other)	None Detected

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