



**RINGNECK CONSULTING SERVICES, Inc.**

May 5, 2016

Mr. Jeff Fairchild  
Industrial Hygienist  
BES Design/Build, LLC  
2205 S. Arch Street  
Little Rock, AR 72206

RE: Asbestos & Paint Sampling and Testing  
VA Medical Center/Water Tower  
Dublin, Georgia  
Project Number 16072-01

Dear Mr. Fairchild;

Ringneck Consulting Services, Inc. (Ringneck, Inc.) has completed Asbestos & Paint Sampling and Testing at the VA Medical Center/Water Tower project (hereinafter referred to as the Project Site) located in Dublin, Georgia. Our attached report includes a description of the Project Site structures, a summary of the asbestos and paint sampling and testing programs, a summary of the testing results, and our comments.

We appreciate the opportunity to assist you with this project. Please contact our offices if you have any questions or require additional assistance.

Sincerely,

**RINGNECK CONSULTING SERVICES, INC.**

A handwritten signature in black ink, appearing to read "Todd Jamison". The signature is fluid and cursive.

Todd Jamison  
Senior Environmental Specialist/  
President

Reports 16072.01 BES Design/Build VA Medical Center Water Tower Asbestos and Paint Sampling and Testing

Attachments

**3330 COBB PARKWAY, SUITE 324-358, ACWORTH, GEORGIA 30101**  
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## **SAMPLING & TESTING PROGRAMS**

### Project Description

A water tower structure and two associated buildings are scheduled to be decommissioned and removed from the Project Site. A modular radio room is located at the base of the water tower and a valve room is located adjacent to the radio room. The radio room is identified as Building 10176 and the valve house is identified as Building 10147.

Ringneck, Inc. performed the visual evaluation and sampling and testing programs described herein to identify possible asbestos-containing materials and lead-paint films that may be affected by the planned work. Results of the evaluation were used to develop an inventory of asbestos-containing material(s), and/or lead paint films that may be present at the Project Site.

### **A. ASBESTOS SAMPLING AND TESTING PROGRAM**

#### Purpose

Bulk sampling and testing was performed to evaluate representative materials at the Project Site structures for possible detectable concentrations of asbestos fibers. Test results were reviewed to determine whether asbestos removal will be warranted in conjunction with the planned dismantling of the water tower structure and removal of the two support buildings.

#### Scope of Work

Ringneck, Inc.'s Scope of Work included the following items:

- Ringneck, Inc. coordinated a visit to the Project Site with a representative of the VA Medical Center. Ringneck, Inc.'s asbestos inspector evaluated suspect, asbestos-containing materials that may be affected by the planned work.
- Suspect materials were evaluated for friability or non-friability. A friable material is a material that can be pulverized or reduced to dust using hand pressure.



- Based on our observations, seven (7) samples of suspect asbestos-containing materials were collected and transported by Ringneck, Inc. to a qualified asbestos laboratory. Chain of Custody was documented and retained on-file. Each of the bulk samples were tested for detectable concentrations of asbestos using Polarized Light Microscopy (PLM) and EPA Method 600/R-93/116.
- Ringneck, Inc. made notes related to the existing conditions at the Project Site. Upon receipt of the testing results, Ringneck, Inc. reviewed the test results, compared the test results with the field data, identified the samples that contain detectable concentrations of asbestos by PLM, if any, and prepared this report to document the findings.

#### Visual Evaluation and Bulk Sampling Program

During our visual examination, Ringneck, Inc.'s asbestos inspector identified homogeneous areas of suspect asbestos-containing materials. Homogenous areas are defined as an area of suspect asbestos-containing material that are similar in color, texture, apparent use and approximate age. Representative areas of homogeneous roofing materials were selected for bulk sampling.

#### Bulk Sample Collection

Sample collection was performed in substantial conformance with the practices and procedures contained within the EPA document, "Guidance for Controlling Asbestos-Containing Materials in Buildings," EPA 1985 and in general conformance with the sampling protocol in 40 CFR Part 763, AHERA. A random method was used to select sampling locations from representative homogeneous areas of suspect materials.

A representative portion of suspect material was extracted using a clean metal coring tool or a clean knife as warranted. Care was taken to collect a representative sample of the suspect material down to the underlying substrate. Each sample container was sealed and labeled with a unique identification number. A description of the material sampled and the approximate location was recorded on the Field Sampling Data sheet.



### Bulk Sample Testing

EMSL Analytical, Inc. (EMSL) in Smyrna, Georgia performed bulk sample testing. EMSL is a successful participant in the National Voluntary Laboratory Accreditation Program (NVLAP). Bulk samples were tested for detectable concentrations of asbestos using Polarized Light Microscopy (PLM) and the “Method for the Determination of Asbestos in Bulk Building Materials”, EPA Method 600/R-93/116, July 1993.

In general conformance with the EPA method, the presence of asbestos in a bulk sample using PLM is determined by optical mineralogy using a light microscope equipped with two polarizing filters. Asbestos identification was achieved by examining the morphology and optical properties of the sampled material. Optical properties include the color under dispersion staining, birefringence, extinction characteristics, and sign of elongation.

United States EPA defines asbestos-containing materials as material containing greater than 1% asbestos by volume. EPA Method 600/R-93/116 may be used for the analysis of bulk material samples containing from 0 to 100 percent asbestos with a lower limit of detection (LOD) of less than 1 percent asbestos and an upper LOD of 100 percent. PLM laboratory results are reported as the percent of the type of asbestos fibers observed in the sample based on a calibrated visual estimation made by the PLM analyst in accordance with the EPA 600 Method.

### Bulk Sample Descriptions and PLM Test Results

Based on results reported by EMSL, none of the bulk samples collected from the Project Site structures contains a detectable concentration of asbestos fibers by PLM. A description of all the samples collected and the corresponding PLM test results are listed in Table I in the back of this report. EMSL's PLM report is attached.



## **B. PAINT SAMPLING AND TESTING PROGRAM**

### Purpose

A visual evaluation and paint sampling program was performed to identify suspect lead paint films on representative painted components of the water tower. Test results were reviewed to determine the presence of detectable concentrations of lead and to determine whether OSHA worker protection requirements will be applicable to the planned dismantling activities.

### Scope of Work

Ringneck, Inc.'s Scope of Work for the paint sampling and testing program included the following:

- A qualified inspector performed a visual examination of representative components on the water tower to identify accessible, suspect lead paint films for sampling.
- Based on our visual evaluation, and in general conformance with industry standards, four (4) paint chip samples were collected and delivered to EMSL in Smyrna, Georgia for testing.
- Paint samples were tested for total lead using Flame Atomic Absorption Spectroscopy (AAS) and Method SW 846 3050B/7000B. Results are reported as a percentage of lead by dry weight. Ringneck, Inc. reviewed the test results, compared the test results with the field data sheet, and identified the samples that contain detectable concentrations of lead, if any, by Flame AAS.



### Visual Evaluation and Paint Sampling Program

Paint chip samples were collected from prevalent paint films observed on representative painted components of the water tower. Sampling was performed using a clean sampling instrument. Pertinent sample data including, but not limited to, the location of the chip sample, the component tested, paint color, and the substrate was recorded on the field data sheet. Paint samples were collected from the following areas/components:

- Blue, with layers, on metal cross-brace, at southeast support column
- Blue, with layers, on southeast metal support column
- Blue, with layers, on metal support strut
- Blue, with layers, on metal base plate, southeast support column

### Paint Testing Results

Based on the results reported by EMSL, paint chip samples collected from representative painted components at the water tower contain from <0.010 to 0.064% lead by dry weight using Flame AAS. A description of paint samples collected from the Project Site building and the corresponding test results are included in the attached Table II. EMSL's lead testing Laboratory Report is attached.

### Data Evaluation

Asbestos-containing materials were not identified at the Project Site. Georgia EPD requires the submission of a 10-Day Notification of Renovation/Demolition to the Georgia EPD offices prior to the demolition of a structure or prior to a major renovation involving the removal of structural/load-bearing members. Notification of demolition or extensive renovation is required whether or not asbestos-containing materials are involved. Local agencies may also have specific requirements for demolition/renovation projects involving asbestos-containing building materials.

Lead-containing paint films were identified at the Project Site based on our representative evaluation and test results. OSHA's Lead in Construction regulation, 29 CFR 1962.62, does not define a threshold limit for lead. Detectable concentrations of lead in paint films that will be disturbed will trigger OSHA's worker protection requirements.



Unless performed by properly trained and protected workers, OSHA 29 CFR 1926.62 will require proper work practices, worker protection and exposure assessment monitoring during demolition, salvage, renovation, alteration or other activities that disturb materials containing lead. Whenever respiratory protection is worn by employees, the employer must comply with OSHA standard 1926.62(f) and have a written respiratory protection program in accordance with 29 CFR 1910.134 (b), (d), (e) and (f). Appropriate engineering controls will be required to prevent contamination of previously uncontaminated areas.

### Limitations

Ringneck, Inc. has made a reasonable effort to perform sampling and testing for asbestos-containing materials and lead in substantial conformance with applicable EPA, and Georgia EPD guidance documents and regulations for the performance of asbestos surveys and in accordance with the requested Scope of Work. Conclusions presented in this report are based on our field observations and on the laboratory results obtained from a qualified analytical sub-contractor.

This report has been prepared on behalf of BES Design/Build, LLC. Ringneck, Inc.'s scope of services performed in the execution of the asbestos sampling and testing program or the lead paint sampling and testing program were not intended to be, and should not be inferred to be, a regulatory-compliant lead paint or asbestos inspection of the entire Project Site and may not be appropriate to satisfy the needs of other users.

In-accessible asbestos-containing materials and lead-paint components may exist in areas where full demolition is warranted for access. In the event that previously in-accessible suspect asbestos-containing materials are encountered during future demolition or renovation activities, additional samples should be collected for testing or additional testing lead paint testing should be performed. Results of any subsequent bulk samples that contain detectable concentrations of asbestos fibers or paint samples that contain detectable concentrations of lead should be included in a revised report.



This report shall not be reproduced, except in full, without written consent from Ringneck Consulting Services, Inc. Reliance upon this report by persons other than those named herein will require an update to the report. This report is not intended for use as a bid document. Asbestos and lead concentrations will vary between sample locations, between analysts and between laboratories. No warranty is expressed or implied.

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**TABLE I****BULK SAMPLE DESCRIPTIONS AND TEST RESULTS**

**BES DESIGN/BUILD/LLC  
VA-DUBLIN  
WATER TOWER  
DUBLIN, GEORGIA**

<b>SAMPLE NUMBER</b>	<b>MATERIAL/LOCATION</b>	<b>PLM RESULT (%)</b>
Dublin-A-01	White ceiling panel, Radio Room, #10176	None Detected
Dublin-A-02	White ceiling panel, Radio room, #10176	None Detected
Dublin-A-03	Brown shingle, roof, Valve House, #10147	None Detected
Dublin-A-04	Brown shingle, roof, Valve House, #10147	None Detected
Dublin-A-05	Black felt, beneath shingles, Valve House, #10147	None Detected
Dublin-A-06	Black felt, beneath shingles, Valve House, #10147	None Detected
Dublin-A-07	Black felt flashing, at intersect of center pipe and Valve House	None Detected

**END OF TABLE I**





# EMSL Analytical, Inc.

2205 Corporate Plaza Parkway SE, Suite 200 Smyrna, GA 30080  
Tel/Fax: (770) 956-9150 / (770) 956-9181  
<http://www.EMSL.com> / [atlantalab@emsl.com](mailto:atlantalab@emsl.com)

36c247R0120 00001

EMSL Order: 071602807  
Customer ID: RING50  
Customer PO:  
Project ID:

**Attention:** Todd Jamison  
Ringneck Consulting Services PMB358  
3330 Cobb Pkwy. North NW  
Suite 324-358  
Acworth, GA 30101-8350  
**Project:** BES/ VA Dublin Water Tower

**Phone:** (770) 842-3781  
**Fax:** (770) 975-4631  
**Received Date:** 05/02/2016 1:35 PM  
**Analysis Date:** 05/06/2016  
**Collected Date:**

## 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
DUBLIN-A-01 <small>071602807-0001</small>	White Ceiling Panel, Radio Rm. #10176	Gray Fibrous Homogeneous	10% Cellulose	40% Gypsum 50% Non-fibrous (Other)	None Detected
DUBLIN-A-02 <small>071602807-0002</small>	White Ceiling Panel, Radio Rm. #10176	Gray Fibrous Homogeneous	10% Cellulose	40% Gypsum 50% Non-fibrous (Other)	None Detected
DUBLIN-A-03 <small>071602807-0003</small>	Brown Shingle, Roof, Valve House # 10147	Black Fibrous Homogeneous	15% Glass	10% Ca Carbonate 75% Non-fibrous (Other)	None Detected
DUBLIN-A-04 <small>071602807-0004</small>	Brown Shingle, Roof, Valve House # 10147	Black Fibrous Homogeneous	15% Glass	10% Ca Carbonate 75% Non-fibrous (Other)	None Detected
DUBLIN-A-05 <small>071602807-0005</small>	Black Felt, Beneath Shingles, Valve House #10147	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
DUBLIN-A-06 <small>071602807-0006</small>	Black Felt, Beneath Shingles, Valve House #10147	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
DUBLIN-A-07 <small>071602807-0007</small>	Black Felt Flashing, At Intersect Of Center Pipe And Valve House	Black Non-Fibrous Homogeneous	5% Glass	95% Non-fibrous (Other)	None Detected

Analyst(s)  
Amber Baynes (7)

Amber Baynes, Asbestos Lab Supervisor  
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 Smyrna, GA NVLAP Lab Code 101048-1

**TABLE II****PAINT SAMPLES AND TEST RESULTS**

**BES DESIGN/BUILD  
VA-DUBLIN  
WATER TOWER  
DUBLIN, GEORGIA**

<b>SAMPLE NUMBER</b>	<b>MATERIAL/LOCATION</b>	<b>% LEAD (BY DRY WEIGHT)</b>
Dublin-L-01	Blue, with layers, on metal cross brace, southeast support column	0.025
Dublin-L-02	Blue, with layers, on metal southeast support column	<0.010
Dublin-L-03	Blue, with layers, on metal support strut	0.064
Dublin-L-04	Blue, with layers, on metal base plate, at southeast support column	0.031

**END OF TABLE II**



**EMSL Analytical, Inc.**

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706 Gralin Street, Kernersville, NC 27284

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<http://www.EMSL.com>

[greensborolab@emsl.com](mailto:greensborolab@emsl.com)

EMSL Order:	021602909
CustomerID:	RING50
CustomerPO:	CC AUTH 074062
ProjectID:	

Attn: **Todd Jamison**  
**Ringneck Consulting Services PMB358**  
**3330 Cobb Pkwy. North NW**  
**Suite 17**  
**Suite 324-358**

Phone: (770) 975-4630  
Fax: (770) 975-4631  
Received: 05/03/16 10:00 AM  
Collected: 5/2/2016

Project: **BESVA Dublin Water Tower**

**Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)\***

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
Dublin-L-01	021602909-0001	5/2/2016	5/6/2016	0.025 % wt
Dublin-L-02	021602909-0002	5/2/2016	5/6/2016	<0.010 % wt
Dublin-L-03	021602909-0003	5/2/2016	5/6/2016	0.064 % wt
Dublin-L-04	021602909-0004	5/2/2016	5/6/2016	0.031 % wt

James Cole, Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. 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. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Samples analyzed by EMSL Analytical, Inc. Kernersville, NC EMSL Lab ID 102564 is accredited by the AIHA Laboratory Accreditation Program (AIHA-LAP), LLC in the Environmental Lead accreditation program for Lead in Paint Chips.

Initial report from 05/09/2016 09:26:13

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# ***The Environmental Institute***

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## ***Todd Jamison***

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Social Security Number - XXX-XX-0233

Ringneck Consulting Services, Inc. - 3330 Cobb Parkway, Suite 324-358 - Acworth, Georgia 30101

*Has completed coursework and satisfactorily passed  
an examination that meets all criteria required for  
EPA/AHERA/ASHARA (TSCA Title II) Approved Reaccreditation*

### ***Asbestos in Buildings: Inspector & Management Planner Refresher***

August 14, 2015

Course Date

15103

Certificate Number

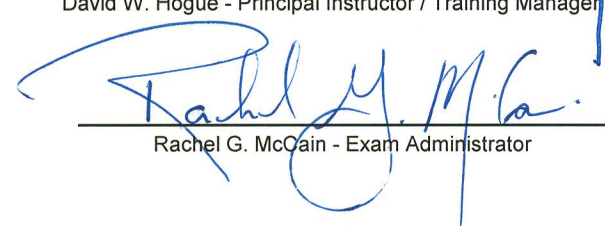
August 14, 2015

Examination Date

August 13, 2016

Expiration Date

  
\_\_\_\_\_  
David W. Hogue - Principal Instructor / Training Manager

  
\_\_\_\_\_  
Rachel G. McCain - Exam Administrator



(Approved by the ABIH Certification Maintenance Committee for 1 CM point - Approval #11-583)

(Florida Provider Registration #FL49-0001342 - Inspector Ref. Course #0002805 - Mgmt. Plan Ref. Course #0002806)

TEI - 1841 West Oak Parkway, Suite F - Marietta, Georgia 30062 - (770) 427-3600 - [www.tei-atl.com](http://www.tei-atl.com)