

City of Lynchburg  
Procurement Division  
900 Church Street  
Lynchburg, Virginia 24504  
Telephone No.: (434) 455-3970  
Fax No.: (434) 845-0711

**Addendum for Invitation for Bids  
REBID- KEMPER STREET BRIDGE REPLACEMENT PROJECT**

**14-886**

Date: 09/26/2014  
From: Lisa Moss, Buyer VCA  
RE: Addendum No. 3

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This Addendum supplements and amends the original Plans and Specifications and shall be taken into account in preparing proposals and shall become a part of the Contract Documents. The Bidder shall indicate receipt of this Addendum and all previously issued Addenda on the Bid Form.

- 1. Attached are the Specifications for Master Plant Schedule Revision 1/9/14 and the Asbestos and Lead Test Report**
- 2. The Bid sheet is posted separately in excel format. It is the bidders responsibility to verify that all information is correct.**
- 3. The VDOT Road and Bridge Specifications, Section 404- Hydraulic Cement Concrete Modifications shall be modified as follows:**
  - 1. All forms used in placement of substructure concrete shall remain in place, undisturbed, for a minimum of seven (7) full days after concrete placement.**
  - 2. The Engineer will perform evaporation rate testing for superstructure concrete placements. If the maximum evaporation rate, as determined, exceeds 0.1 lb/sqft/hr for A4 concrete superstructure concrete placements, the Contractor shall not place the superstructure concrete (for decks, sidewalks, median barriers, or parapets).**
  - 3. All deck slab placements from April to October shall take place between 10:00 p.m. and 5:00 a.m. This time period requirement may be adjusted or waved at the discretion of the City Engineer or the appointed City Representative.**
  - 4. In the event shrinkage cracking occurs, the Contractor shall make repairs by epoxy injection, utilizing materials, methods and timing satisfactory to the Engineer and at the Contractor's expense.**
- 4. Revised Plan Sheet 7 (15)- Prestressed Concrete Bulb-T (PCBT-45) Intermediate Diaphragm Details is listed as an attachment for this addendum.**
- 5. ITEM #1: On the Index of Sheets (Plan Sheet 1B) CHANGE Sheet 7(1) – 7(34) to 7(1) – 7(25) for the Bridge Sheets.**

*Company Name:* \_\_\_\_\_ *Address:* \_\_\_\_\_ *Date:* \_\_\_\_\_

*Authorized Signature:* \_\_\_\_\_ *Title:* \_\_\_\_\_

*Print Name:* \_\_\_\_\_ *Telephone No.:* \_\_\_\_\_

*Fax No.:* \_\_\_\_\_

KEMPER STREET BRIDGE MASTER PLANT SCHEDULE REVISED 1-9-2014

KEMPER STREET BRIDGE MASTER PLANT SCHEDULE REVISED 1-9-2014										
PLANT INFORMATION				PLANT SIZE					MARK	NOTES
				INSTALLATION			MATURITY			
MARK	QTY	COMMON TRADE	BOTANICAL OR LATIN	CAL(IN.)	HEIGHT	CONT	HEIGHT	CANOPY		
TREES										
CMA	6	CRAPE MYRTLE 'ACOMA'	LAGERSTROEMIA INDICA'ACOMA'		8'	B&B				3-5 TRUNKS
CMD	5	CRAPE MYRTLE 'DYNAMITE'	LAGERSTROEMIA INDICA 'DYNAMITE'		7'-8'	B&B				3-5 TRUNKS
CMN	12	CRAPE MYRTLE 'NANCHEZ'	LAGERSTROEMIA INDICA 'NANCHEZ'		8'	B&B				3-5 TRUNKS
CMS	3	CRAPE MYRTLE 'SOUIX'	LAGERSTROEMIA INDICA 'SOUIX'		8'	B&B				3-5 TRUNKS
CVS	6	STELLAR PINK DOGWOOD	CORNUS x 'RUTGAN' STELLAR PINK	2.0	7'-8'	B&B				
GB	3	MALE GINKGO	GINKGO BILOBA	2.5	10'	B&B				MALE ONLY
HN	12	NELLIE STEVENS' HOLLY	ILEX x 'NELLIE R. STEVENS'		5'-6'	B&B				
MLG	1	MAGNOLIA LITTLE GEM	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	2	7'-8'	B&B				SINGLE LEADER ONLY
MOG	10	OCTOBER GLORY' MAPLE	ACER RUBRUM 'OCTOBER GLORY'	2.5	10'	B&B				
PPF	17	PINK FLAIR CHERRY	PRUNUS SARGENTII 'JFS-KW58'	2.0	9'-10'	B&B				
SHRUBS										
BB	137	BURNING BUSH	EUONYMUS ALATUS		24"-30"	3 GAL				5' OC
CH	107	CHINESE HOLLY 'CARISSA'	ILEX CORNUTA 'CARISSA'		15"-18"	3 GAL				3' OC
CMP	306	POCOMOKE CRAPE MYRTLE	LAGERSTROEMIA INDICA 'POCOMOKE'		15"-18"	3 GAL				3' OC
DH	52	DWARF BURFORD HOLLY	ILEX CORNUTA 'DWARF BURFORD'		24"-30"	5 GAL				4' OC
DRA	32	APRICOT DRIFT ROSE	ROSA 'MEIMIRROTE'		12"-15"	3 GAL				3' OC
DRR	230	RED DRIFT ROSE	ROSA 'MEIGALPIO'		12"-15"	2 GAL				3' OC
HG1	118	LITTLE HENRY VIRGINIA SWEETSPIRE	ITEA VIRGINICA 'SPRICH'		15"-18"	3 GAL				3' OC

JPD	1623	DWARF JAPANESE GARDEN JUNIPER	JUNIPERUS PROCUMBENS 'NANA'		15"– 18"	1 GAL				2' OC
GROUND COVER										
CR	221	CORAL CARPET ROSE	ROSA x 'NOALA'		12"– 15"	2 GAL				18" OC
ECL3	170	COCONUT LIME CONEFLOWER	ECHINACEA PURPUREA 'COCONUT LIME'		15"– 18"	1 GAL				2' OC
LV2	1394	VARIEGATED LIRIOPE	LIRIOPE MUSCARI 'VARIEGATA'		6"	4" POT				18" OC
PH	226	DWARF FOUNTAIN GRASS	PENNISETUM ALOPECUROIDES 'HAMELN'		12"– 15"	1 GAL				3' OC
JBR	471	BLUE RUG JUNIPER	JUNIPERUS HORIZONTALIS 'WILTONII'		12"– 15"	1 GAL				30" OC
RAIN GARDEN PLANTS										
BF1	60	BLUEFLAG IRIS	IRIS VERSICOLOR		10"– 12"	1 GAL				1' OC
BF2	46	BLUEFLAG IRIS	IRIS VERSICOLOR		10"– 12"	1 GAL				2' OC
BS	75	BLACKEYED SUSAN	RUDBECKIA HIRTA		10"– 12"	1 GAL				1' OC
ECL1	75	COCONUT LIME CONEFLOWER	ECHINACEA PURPUREA 'COCONUT LIME'		10"– 12"	1 GAL				1' OC
ECL2	64	COCONUT LIME CONEFLOWER	ECHINACEA PURPUREA 'COCONUT LIME'		10"– 12"	1 GAL				2' OC
HG2	49	LITTLE HENRY VIRGINIA SWEETSPIRE	ITEA VIRGINICA 'SPRICH'		15"– 18"	3 GAL				3' OC
LBS	66	LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM		10"– 12"	1 GAL				6" OC TIGHTLY STAGGERED
LV1	320	VARIEGATED LIRIOPE	LIRIOPE MUSCARI 'VARIEGATA'		6"	1 GAL				18" OC
PB	60	PRAIRIE BLAZING STAR	LIATRIS PYCNOSTACHYA		10"– 12"	1 GAL				1' OC
RTD	41	VARIEGATED RED TWIG DOGWOOD	CORNUS ALBA 'ELEGANTISSIMA'		18"– 24"	3 GAL				4' OC



**FROEHLING & ROBERTSON, INC.**  
*Engineering Stability Since 1881*

1734 Seibel Drive, NE  
Roanoke, Virginia 24012-5624  
T 540.344.7939 | F 540.344.3657

Record No: 62N-0447

November 10, 2011

Public Works-Engineering  
1700 Memorial Avenue  
Lynchburg, Virginia 24501  
Email: [Joe.Smith@lynchburgva.gov](mailto:Joe.Smith@lynchburgva.gov)

Attention: Joe Smith

Subject: Asbestos and Lead Testing Services  
Kemper Street Bridge  
Lynchburg, Virginia

Mr. Smith;

Froehling & Robertson, Inc. (F&R) personnel conducted an asbestos and lead based paint survey on October 27, 2011 of the Kemper Bridge. The sections below summarize on-site activities and findings.

**1.0 LIMITED ASBESTOS SURVEY FINDINGS AND RESULTS**

Fourteen (14) bulk samples of suspect asbestos containing materials were collected at the site and analyzed. The suspect ACMs were submitted to Environmental Hazards Services, L.L.C. an NVLAP accredited (NVLAP Lab Code: 101882-0) and Virginia licensed asbestos laboratory, in Richmond, Virginia, for analysis by Polarized Light Microscopy (PLM) following EPA Method 600/R-93/116. The analytical results are shown in the following table. A copy of the laboratory Asbestos Bulk Analysis Report is included as an attachment to this report. The survey results are presented in Table I.

**TABLE I: Asbestos Sample Results: October 27, 2011**

Sample Number	Sample Location	Sample Type	Lab Description	Analytical Results
ASRW01	South side	Black Bottom Layer Under Pad	Black Tar-Like	NAD <sup>1</sup>
ASRW02	South side	Pad	Gray Granular	NAD
ASRW03	South side	Sealant	Gray Brittle	NAD

Corporate HQ: 3015 Dumbarton Road Richmond, Virginia 23228 T 804.264.2701 F 804.264.1202 [www.fandr.com](http://www.fandr.com)

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Sample Number	Sample Location	Sample Type	Lab Description	Analytical Results
ASRW04	Under Bridge	Caulking/Sealer (between beam and pad on column)	Gray Brittle	Trace <1% Chrysotile
ASRW05	Middle of Abutment	Black Bottom Layer Under Pad	Black Tar-Like	NAD
ASRW06	Top of Water Line	Silver Paint	Silver Paint	NAD
ASRW07	Southwest side	Expansion Joint/Sealant-Dark Gray	Tan Brittle	NAD
ASRW08	East Side Under Hand Rail Plates	Light Gray Gasket	Gray Brittle	2% Chrysotile
ASRW09	North side Under Beams	Black Bottom Layer	Black Tar-Like	NAD
ASRW10	Southeast side	Expansion Joint-Black	Black Rubber	NAD
ASRW11	North side	Drain	Black Tar-Like	NAD
ASRW12	Under Bridge Between Beams	Rope/String	Tan Fibrous; Gray Powder	NAD
ASRW13	North side	Drain	Black Tar-Like	NAD
ASRW14	West side Under Hand Rail Plates	Light Gray Gasket	Gray Brittle	2% Chrysotile

NAD: No Asbestos Detected

### 1.1. Friable Asbestos Containing Materials:

Asbestos (2% Chrysotile) was detected in two (2) representative samples (ASRW08 and ASRW14) of the light gray gasket material under the plates of the hand rails where they bolt onto the bridge. This material is classified as friable ACM and was in fair condition. All similar light gray gasket material located on Kemper Bridge should be assumed to be an asbestos-containing material.

### 1.2. Non-Friable Asbestos Containing Materials:

Asbestos (Trace <1%) was detected in one (1) representative sample of the caulking/sealer located between the bridge beams and the pads on the support columns and buttresses under Kemper Bridge. Although this level is below the regulatory threshold under EPA regulations, OSHA has regulations for the removal and disturbance of trace levels of asbestos. F&R recommends that the owner either conduct follow-up sampling of the caulking/sealer using a more sensitive method (TEM analysis) to evaluate if there is asbestos present in this material or assume that the material is asbestos containing and manage it accordingly. F&R notes however that this is not a regulatory requirement and our recommendation is based on experience and good practice.



If during demolition or repair/renovation activities, work is performed that will impact suspect materials that **have not been sampled**, it is recommended that these materials be sampled by a Virginia licensed Asbestos Inspector prior to disturbance.

The Asbestos Analytical Report and the Chain of Custody Documentation is provided as an attachment to this report.

## 2.0 APPLICABLE REGULATIONS - ASBESTOS

### 2.1. EPA/NESHAP Regulations for Asbestos Containing Materials

The U.S. Environmental Protection Agency promulgated the National Emission Standards for Hazardous Air Pollutants (NESHAP) [40 CFR Part 61], which addresses the application, removal, and disposal of asbestos-containing materials (ACM). Under NESHAP the following categories are defined for asbestos-containing materials:

Friable - When dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

Non-friable - When dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Category I Non-friable ACM - Packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than 1% asbestos.

Category II Non-friable ACM - Any material, excluding Category I Non-friable ACM, which contains more than 1% asbestos.

Regulated Asbestos Containing Material (RACM) - One of the following:

1. Friable ACM
2. Category I Non-friable ACM that has become friable.
3. Category I Non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading.
4. Category II Non-friable ACM that has a high probability of becoming, or has become, friable by the forces expected to act on the material in the course of demolition or renovation operations.

Under NESHAP, the following actions are required:

1. Prior to the commencement of demolition or renovation activities, the building owner must inspect the affected facility or part of the facility where the demolition or renovation activities will occur for the presence of asbestos.
2. Remove all RACM from the facility before any activity begins that would break up, dislodge, or similarly disturb the material or preclude access for subsequent removal.



3. RACM need not be removed if:
- a) It is Category I non-friable ACM that is not in poor condition.
  - b) It is on a facility component that is encased in concrete or other similar material and is adequately wet whenever exposed.
  - c) It was not accessible for testing and was therefore not discovered until after demolition began and because of the demolition the material cannot be safely removed.
  - d) It is Category II non-friable ACM and the probability is low that the material will become crumbled, pulverized, or reduced to powder during demolition.

### 3.0 LIMITED LEAD-BASED PAINT SURVEY FINDINGS AND RESULTS

Froehling & Robertson, Inc. (F&R) personnel also performed lead based paint (LBP) testing of painted components under the Kemper Bridge. Based on the nature of this survey, when one component tests positive for the presence of lead paint all similar painted components must be assumed to be positive, unless additional testing is performed.

The sampling procedure used to obtain representative samples of coatings present on structural components was by collection of dried paint film in general accordance with ASTM E 1729-05. Samples were analyzed by EPA method 7000 by an NVLAP 101882-0 accredited laboratory and are listed below. A total of four (4) paint samples were taken on the components of the bridge. The water lines and steel hangers tested positive for LBP when compared to the HUD action level of 0.5 % by weight.

**Table 2: - Lead Based Paint Sampling Results**

Sample#	Sample Location	Component	Pb (ug/g) ppm	% Pb by Wt.
PSRW01	Kemper Bridge	Water Line (South side)	61000	6.1
PSRW02	Kemper Bridge	Steel Hanger	270000	27
PSRW03	Kemper Bridge	Water Line (North side)	91000	9.1
PSRW04	Kemper Bridge	Top of Water Line	23000	2.3

Based on the detection of LBP on specific component types, the following materials are assumed to be coated with LBP:

- The water lines and steel hangers under the bridge.

F&R recommends that all of these materials and all similar painted surfaces be assumed to be coated with LBP.



## **4.0 APPLICABLE REGULATIONS – LEAD BASED PAINT**

### **4.1. OSHA Regulations for Lead-Based Paint**

It is important to note that any painted surface may contain concentrations of lead in the paint, which when disturbed, may generate lead dust greater than the maximum exposure concentration of 30 micrograms per cubic millimeter established by the OSHA “Lead Exposure in Construction Rule” (29 CFR 1926.62). The OSHA standard gives no guidance on acceptable levels of lead in paint at which no exposure to airborne lead (above the action level) would be expected. Rather, OSHA defines airborne concentrations, and references specific types of work practices and operations from which a lead hazard may be generated (reference 29 CFR 1926.62, section d). Environmental and personnel monitoring should be conducted during any removal or demolition process (as appropriate) to determine actual personal exposure. This monitoring information can be used to determine the levels of personnel protection and environmental controls required for work involving specific removal/demolition processes on specific structures. Under OSHA requirements, the Contractor performing the work will be required to conduct this monitoring. It is important to note that environmental controls will vary dependent upon the content of lead in paint, the process used to remove it, duration of the work, and the amount of paint to be removed.

### **4.2. EPA Regulations for Lead-Based Paint**

Under the new Renovation, Repair, and Painting (RRP) Regulation the Contractor shall complete all renovation work that will affect LBP coated surfaces in accordance with the requirements found in 40 CFR 745. At a minimum the contractor shall assume that this facility is classified as a Child Occupied Facility under the US EPA RRP regulations found under 40 CFR 745.

The Contractor should submit documentation of compliance with this standard to the Client prior to start-up of work, including personal training, certification of personal, and a means and methods work plan to comply with the RRP regulations.

For disposal of construction/demolition debris that has LBP, the Environmental Protection Agency (EPA) requires that testing of lead content be performed to determine proper disposal. EPA regulations require that a generator of waste determine if that waste is hazardous by performing testing in accordance with the requirements of 40 CFR 261.11 or for wastes that may be RCRA hazardous (such as items with high lead content), the generator may assume that the waste is hazardous and comply with the hazardous waste regulation.



## 5.0 LIMITATIONS

This report has been prepared for the exclusive use of the City of Lynchburg Public Works Department and/or their agents. This service was performed in accordance with generally accepted environmental practices. No other warranty, expressed or implied, is made. Our conclusions and recommendations are based, in part, upon information provided to us by others and our site observations. We have not verified the completeness or accuracy of the information provided by others, unless otherwise noted. Our observations and recommendations are based upon conditions readily visible at the site at the time of our site visit, and upon current industry standards. During F&R's non-invasive inspection, accessible areas were visually surveyed for the presence of suspect asbestos materials and suspected LBP. Areas inspected for the above-referenced materials were limited to those designated by the Client and the scope of services.

During this study, suspect asbestos samples were submitted for analysis at an NVLAP-accredited laboratory via polarized light microscopy and suspect hazardous material samples were submitted for laboratory analysis. As with any similar survey of this nature, actual conditions exist only at the precise locations from which suspect asbestos samples were collected. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. It is also understood that this is a non-invasive survey so that it is possible that concealed materials may be present that were not accessible during the original survey. No other warranty, expressed or implied, is made.

Under this scope of services, F&R assumes no responsibility regarding response actions (e.g. O&M Plans, Encapsulation, Abatement, Removal, Notifications, etc.) initiated as a result of these findings. F&R assumes no liability for the duties and responsibilities of the Client with respect to compliance with these regulations. Compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements and should be performed by appropriately qualified and licensed-personnel, as warranted.

Froehling & Robertson, Inc. by virtue of providing the services described in this report, does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies any conditions at the site that may present a potential danger to public health, safety, or the environment. The Client agrees to notify the appropriate local, state, or federal public agencies as required by law, or otherwise to disclose, in a timely manner, any information that may be necessary to prevent any danger to public health, safety, or the environment. The contents of the report should not be construed in any way as a recommendation to purchase, sell, or develop the project site.



## 6.0 SIGNATURES

If you have any questions concerning this report, please feel free to contact the undersigned. Froehling & Robertson, Inc. appreciates the opportunity to work with you as your Environmental Consultant, and looks forward to a continued cordial working relationship with you.

Respectfully Submitted,  
**FROEHLING & ROBERTSON, INC.**

Mary Beth Wriston  
Industrial Hygienist

Gregory L. Whitt  
Environmental Group Manager

Attachments: Appendices



APPENDIX A

**Analytical Certificates and Chains of Custody Forms**



Environmental Hazards Services, L.L.C.  
 7469 Whitepine Rd  
 Richmond, VA 23237  
 Telephone: 800.347.4010

## Asbestos Bulk Analysis Report

Report Number: 11-10-04115

Client: Froehling & Robertson Inc. - Roanoke  
 1734 Seibel Drive, N.E.  
 Roanoke, VA 24012

Received Date: 10/31/2011  
 Analyzed Date: 11/01/2011  
 Reported Date: 11/03/2011

Project/Test Address: 62N-0447, Lynchburg, VA

Client Number:  
 48-4628

Fax Number:  
 540-344-3657

# Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
11-10-04115-001	ASRW01		Black Tar-Like	NAD	29% Cellulose 71% Non-Fibrous
11-10-04115-002	ASRW02		Gray Granular	NAD	100% Non-Fibrous
11-10-04115-003	ASRW03		Gray Brittle	NAD	100% Non-Fibrous
11-10-04115-004	ASRW04		Gray Brittle	Trace <1% Chrysotile	100% Non-Fibrous
				Total Asbestos: Trace <1%	
11-10-04115-005	ASRW05		Black Tar-Like	NAD	34% Cellulose 66% Non-Fibrous
11-10-04115-006	ASRW06		Silver Paint	NAD	100% Non-Fibrous

## Environmental Hazards Services, L.L.C

Client Number: 48-4628  
 Project/Test Address: 62N-0447, Lynchburg, VA

Report Number: 11-10-04115

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
11-10-04115-007	ASRW07		Tan Brittle	NAD	100% Non-Fibrous
11-10-04115-008	ASRW08		Gray Brittle	2% Chrysotile	98% Non-Fibrous
				Total Asbestos: 2%	
11-10-04115-009	ASRW09		Black Tar-Like.	NAD	34% Cellulose 66% Non-Fibrous
11-10-04115-010	ASRW10		Black Rubber	NAD	100% Non-Fibrous
11-10-04115-011	ASRW11		Black Tar-Like	NAD	34% Cellulose 66% Non-Fibrous
11-10-04115-012	ASRW12		Tan Fibrous; Gray Powder	NAD	76% Cellulose 24% Non-Fibrous
11-10-04115-013	ASRW13		Black Tar-Like	NAD	34% Cellulose 66% Non-Fibrous
11-10-04115-014	ASRW14		Gray Brittle	2% Chrysotile	98% Non-Fibrous
				Total Asbestos: 2%	

# Environmental Hazards Services, L.L.C

Client Number: 48-4628  
Project/Test Address: 62N-0447, Lynchburg, VA

Report Number: 11-10-04115

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
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QC Sample: 14-M11996-2  
QC Blank: SRM 1866 Fiberglass  
Reporting Limit: 1% Asbestos  
Method: EPA Method 600/R-93/116  
Analyst: Christian H. Schaible

Reviewed By Authorized Signatory: 

Tasha Eaddy  
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

\* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

14 PLM



Environmental Hazards Services, LLC

www.leadlab.com 7469 Whitepine Rd  
(800)347-4010 Richmond, VA  
(804)275-4907 (fax) 23237

# Asbestos Chain-of-Custody

11-10-04115



Due Date:  
11/03/2011  
(Thursday)  
ER ML

*OKS*

Company Name: Froehling & Robertson Address: 1734 Seibel Drive NE City/State/Zip: Ruanoke/Va/24012

Phone: (540) 344-7939 Fax: ( ) E-mail: gwhitt@fandr.com Acct. Number: \_\_\_\_\_

Project Name / Testing Address: 62N-0447 City/State (Required): Lynchburg/Va

Collected by: f. and M.B. Nriston Purchase Order Number: \_\_\_\_\_

Turn Around Times: 1 - Day 2 - Day 3 - Day Weekend (Must Call Ahead)

**If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.**

No.	Client Sample ID	Date Collected	ASBESTOS						AIR			COMMENTS		
			PM10 (4050)		PM10 (4050)									
1	ASRW01	10-27-11	✓											Bottom - Black
2	ASRW02		✓											Bed - gravel bits/gray
3	ASRW03		✓											Sealant - off white
4	ASRW04		✓											Caulking - sealer
5	ASRW05		✓											Black - top of bridge
6	ASRW06		✓											Master line - silver
7	ASRW07		✓											dark grey
8	ASRW08		✓											Expansion joint sealant
9	ASRW09		✓											Under saddles - seal
10	ASRW10		✓											Black - worth
													Expansion joint (Black)	
													Date/Time: 10-28-11 / 10 am	
													Date/Time: 11/21/11	
Released by: <u>Mary Beth Nriston</u>													Signature: <u>Mary Beth Nriston</u>	
Received by: <u>K. Taylor</u>													Signature: <u>K. Taylor</u>	



Environmental Hazards Services, LLC

www.ehs-lab.com 7469 Whiteline Rd  
(800)347-4010 Richmond, VA  
(800)275-4907 (fax) 23237

# Asbestos Chain-of-Custody

~ For Lab Use Only ~

Company Name: Froehling & Robertson Address: 1734 Seibel Drive NE City/State/Zip: Roanoke/Va/24012

Phone: (540) 344-7939 Fax: ( ) Email: gwhitt@fandr.com Act. Number: \_\_\_\_\_

Project Name / Testing Address: 62W - 0447 City/State (Required): Lynchburg/Va

Collected by: B. and M.B. Winston Purchase Order Number: \_\_\_\_\_

Turn Around Times: 1 - Day 2 - Day 3 - Day Same Day (Must Call Ahead) Weekend (Must Call Ahead)  
*If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

No.	Client Sample ID	Date Collected	ASBESTOS						AIR			COMMENTS		
			FRAN (100 ml)	FRAN (200 ml)	FRAN (500 ml)	FRAN (1000 ml)	FRAN (1500 ml)	FRAN (2000 ml)	Time On	Time Off	Flow Rate (L/min)		Filter Type (None)	Volume (Total Liters)
1	ASRW11	10-27-11	✓											Drain - North (Black) Sling bit beans
2	ASRW12	↓	✓											Drain - North Black
3	ASRW13	↓	✓											Under Saddles - West
4	ASRW14	↓	✓											
5														
6														
7														
8														
9														
10														

Released by: Mary Beth Winston Signature: Mary Beth Winston Date/Time: 10-28-11/10:00am  
Received by: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: 10/31/11



Environmental Hazards Services, L.L.C.  
 7469 Whitepine Rd  
 Richmond, VA 23237  
 Telephone: 800.347.4010

Lead Paint Chip  
 Analysis Report

Report Number: 11-10-04120

Client: Froehling & Robertson Inc. - Roanoke  
 1734 Seibel Drive, N.E.  
 Roanoke, VA 24012

Received Date: 10/31/2011  
 Analyzed Date: 11/03/2011  
 Reported Date: 11/03/2011

Project/Test Address: 62N-0447; Lynchburg, VA  
 Collection Date: 10/27/2011

Client Number:  
 48-4628

## Laboratory Results

Fax Number:  
 540-344-3657

Lab Sample Number	Client Sample Number	Collection Location	Pb (ug/g) ppm	% Pb by Wt.	Narrative ID
11-10-04120-001	PSRN01	KEMPER BRIDGE	61000	6.1	
11-10-04120-002	PSRN02	KEMPER BRIDGE	270000	27	
11-10-04120-003	PSRN03	KEMPER BRIDGE	91000	9.1	
11-10-04120-004	PSRN04	KEMPER BRIDGE	23000	2.3	

# Environmental Hazards Services, L.L.C

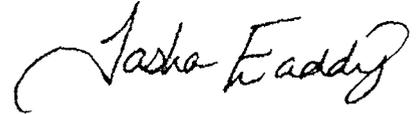
Client Number: 48-4628  
Project/Test Address: 62N-0447; Lynchburg, VA

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Method: EPA SW846 7000B

Reviewed By Authorized Signatory:



Tasha Eaddy  
QA/QC Clerk

The HUD lead guidelines for lead paint chips are 0.50% by Weight, 5000 ppm, or 1.0 mg/cm<sup>2</sup>. The Reporting Limit (RL) is 10.0 ug Total Pb. Paint chip area and results are calculated based on area measurements determined by the client. All internal quality control requirements associated with this batch were met, unless otherwise noted.

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, etc., was provided by the client. Results reported above in mg/cm<sup>3</sup> are calculated based on area supplied by client. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714.

LEGEND	Pb= lead	ug = microgram	ppm = parts per million
	ug/g = micrograms per gram	Wt. = weight	



Laboratories™

# Lead Chain-of-Custody

Environmental Hazards Services, LLC

www.leadlab.com 7469 Whitepine Rd  
(800) 347-4010 Richmond, VA  
(804) 275-4907 (fax) 23237

11-10-04120



Due Date: 11/03/2011  
(Thursday)  
ER ML

Company Name: Fireling & Robertson Address: 1734 Seibel Drive NE City/State/Zip: Rosake / Va / 24502  
Phone: (540) 344-7439 Fax: ( ) \_\_\_\_\_ E-mail: gwhitt@fandr.com Acct. Number: \_\_\_\_\_  
Project Name / Testing Address: 62N-0447 City/State (Required): Winchburg / Va  
Collected by: Rod M.B. Winston Certification Number: \_\_\_\_\_ Purchase Order Number: \_\_\_\_\_

\* Do wipe samples submitted meet ASTM E1792 requirements? Yes  No

Turn Around Time (TAT)  
 1-Day  3-Day  
 Same Day (Must Call Ahead)  
 Weekend (Must Call Ahead)  
 If no TAT is specified, sample(s) will be processed and charged as 3-Day TAT.

No.	Sample Type	Date Collected	Client Sample ID	Collection Location (LR, KT, LTPBR, RTRBR, etc.)	Surface Type	Abbreviations FR = Family Room LR = Living Room DN = Den DK = Dining Room I = 1st Fl F = Front R = Rear LI = Left RT = Right 2 = 2nd Fl	Abbr. 0 = Basement KT = Kitchen BA = Bath BR = Bedroom	Paint Chip		Air		Comments	
								Y	N	Flow Rate (L/min)	Total Time (minutes)		Volume (Total Liters)
1	PC	10-27-11	PSR1001	Kr m p r v Bridge					X	X			Waste Line
2	PC		PSR1002						X	X			Steel Hanger
3	PC		PSR1003						X	X			Waste Line
4	PC		PSR1004						X	X			Waste Line
5													
6													
7													
8													
9													
10													

Released by: Mary Beth Winston Signature: Mary Beth Winston Date/Time: 10-28-11 10:00am  
 Received by: R. Taylor Signature: R. Taylor Date/Time: 10/31/11