



Facilities Business & Finance

743 Greene St.
Columbia, SC 29208
(803) 777-5812
FAX (803) 777-8739

USC Salkehatchie Allendale Campus Deferred Maintenance – Hut Complex Renovation
State Project Number: H38-9517

Addendum Four

To: All Planholders
Kay Keisler
From: Kay Keisler
Date: July 9, 2012

The following changes/clarifications shall be made to the project manual:

1. Restroom facilities will not be provided. Contractor must make arrangements to provide at their expense.
2. Review recent asbestos test results for existing construction materials. (See attached.) All shingles and felt paper are negative for asbestos. There is approximately 10 linear feet of mastic which is positive for asbestos. It is located where the breezeway meets the Healthy Learners Building. Contractor or subcontractor must be licensed in the State of South Carolina for asbestos handling, removal and disposal. Contractor is required to follow all OSHA and SCDHEC regulations. Contractor is to verify the quantity of the asbestos mastic to be removed. Additional cost associated with this scope of work must be included in the contractor's bid.
3. Contactor or subcontractor must provide with their bid (SE-331) a copy of their SC license approved by SC Department of Health and Environmental Control for asbestos handling, removal and disposal. Failure to provide this license with your bid will render the bid "non-responsive".

Bidder shall acknowledge receipt of addendum in the space provided on the quote form (SE-331). Make sure that you submit both pages of the SE-331 Quote Form and required asbestos license.

End of Addendum Number Four
(Total Number of Pages: 55)

FM00399072**USC Work Order****Description** HAZMAT SURVEY OF EXISTING ROOFING MATERIAL - HUT COMPLEX RENOVAT

Site	SALKEHATCH	Assigned To	JPROVENCE		
Building	857 278 ANNEX	Crew	HAZMAT		
Floor	00	Start Date	19-JUN-12	Priority	5
Room:	001	Due date	20-JUL-12		
Equipment		Request Date	20-JUN-12	by	DCATHCAR

Request #	FM00399072	Description	HAZMAT SURVEY OF EXISTING ROOFING MATERIAL - HUT COMPLEX RENOVAT
Parent WO #			

CP Number	CP00174714	USC SALKEHATCHIE - HUT COMPLEX RENOVATION
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State/Internal Project Number	H38-9517
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Requestor	Project Manager	ZIMMERMAN, D. MALONE
Telephone	Telephone	777-9824
Alternate	Estimated Cost	\$ 1,820.00
Telephone	Billing	FIXED PRICE
Non-Available Time	17660-W928-57140	(ALLENDAL DEFERRED MAINT REPAIRS/RENOVAT)

Task List

DATE WORK STARTED	CAUSE	
DATE WORK COMPLETED	CONDITION	
EQUIPMENT		
CLOSING REMARKS		
BENCHSTOCK MATERIALS		
Qty	Description	Price Per Unit

Supervisor's Approval _____

Note Date	Title
28-JUN-12	HAZMAT SURVEY RESULTS - HUT BUILDING
SURVEY DATE:6-19-12	
INSPECTOR #: DARRYL WASHINGTON II BI-00568	
STATUS: THE FOLLOWING MATERIALS HAVE BEEN TESTED FOR ASBESTOS CONTAINING MATERIALS RESULTS FOLLOWS	
TOP ROOFING MATERIAL- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS	
2ND LAYER ROOFING-NEGATIVE FOR ASBESTOS CONTAINING MATERIALS	
3RD ROLLED LAYER ROOFING- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS	
FELT PAPER- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS	
IF YOU ENCOUNTER ANY SUSPECT MATERIALS IN PLACE AND DEEM IT SUSPECT FOR ASBESTOS AND IT IS NOT LISTED PLEASE STOP WORK AND CALL THE ASBESTOS PROGRAM MANAGER FOR FURTHER TESTING OR ABATEMENT	
REFER TO THE SURVEY RESULTS DOCUMENT ATTACHED TO THE WO FOR DETAILED INFORMATION.	

28-JUN-12 HAZMAT SURVEY RESULTS- BOY SCOUTS BUILDING

SURVEY DATE:6-19-12

INSPECTOR #: DARRYL WASHINGTON II BI-00568

STATUS: THE FOLLOWING MATERIALS HAVE BEEN TESTED FOR ASBESTOS CONTAINING MATERIALS

TOP LAYER SHINGLES-NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

2ND LAYER SHINGLES-NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

3RD LAYER ROLLED SHINGLES- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

FELT PAPER- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

IF YOU ENCOUNTER ANY SUSPECT MATERIALS IN PLACE AND DEEM IT SUSPECT FOR ASBESTOS AND IT IS NOT LISTED ABOVE PLEASE STOP WORK AND CALL THE ASBESTOS PROGRAM MANAGER FOR FURTHER TESTING OR ABATEMENT

REFER TO THE SURVEY RESULTS DOCUMENT ATTACHED TO THE WO FOR DETAILED INFORMATION.

28-JUN-12 HAZMAT SURVEY RESULTS - BREEZEWAY

SURVEY DATE:6-19-12

INSPECTOR #: DARRYL WASHINGTON II BI-00568

STATUS: THE FOLLOWING MATERIALS HAVE BEEN TESTED FOR ASBESTOS CONTAINING MATERIALS RESULTS FOLLOWS

FIRST LAYER SHINGLES- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

2ND LAYER SHINGLES- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

3RD LAYER ROLLED SHINGLES- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

FELT PAPER- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

BLACK MASTIC (ROLLED ON TOP LAYER OF SHINGLE CONNECTED TO HEALTHY LEARNERS BUILDING ONLY)- POSITIVE FOR ASBESTOS CONTAINING MATERIALS

IF YOU ENCOUNTER ANY SUSPECT MATERIALS IN PLACE AND DEEM IT SUSPECT FOR ASBESTOS AND IT IS NOT LISTED ABOVE PLEASE STOP WORK AND CALL THE ASBESTOS PROGRAM MANAGER FOR FURTHER TESTING

REFER TO THE SURVEY RESULTS DOCUMENT ATTACHED TO THE WO FOR DETAILED INFORMATION.

28-JUN-12 HAZMAT SURVEY RESULTS - CONCRETE SHED

SURVEY DATE:6-19-2012

INSPECTOR #: DARRYL WASHINGTON II BI-00568

STATUS: THE FOLLOWING MATERIALS HAVE BEEN TESTED FOR ASBESTOS CONTAINING MATERIALS RESULTS FOLLOWS

TOP LAYER SHINGLES- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

2ND LAYER SHINGLES- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

FELT PAPER- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

IF YOU ENCOUNTER ANY SUSPECT MATERIALS IN PLACE AND DEEM IT SUSPECT FOR ASBESTOS AND IT IS NOT LISTED ABOVE PLEASE STOP WORK AND CALL THE ASBESTOS PROGRAM MANAGER FOR FURTHER TESTING OR ABATEMENT

REFER TO THE SURVEY RESULTS DOCUMENT ATTACHED TO THE WO FOR DETAILED INFORMATION.

28-JUN-12 HAZMAT SURVEY RESULTS - HEALTHY LEARNERS BLD

SURVEY DATE:6-19-12

INSPECTOR #: DARRYL WASHINGTON II ASBI-00568

STATUS: THE FOLLOWING MATERIALS HAVE BEEN TESTED FOR ASBESTOS CONTAINING MATERIALS RESULTS FOLLOWS

1ST LAYER OF SHINGLES- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

2ND LAYER OF SHINGLES- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

3RD LAYER ROLLED ROOFING- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

FELT PAPER- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

IF YOU ENCOUNTER ANY SUSPECT MATERIALS IN PLACE AND DEEM IT SUSPECT FOR ASBESTOS AND IT IS NOT LISTED ABOVE PLEASE STOP WORK AND CALL THE ASBESTOS PROGRAM MANAGER FOR FURTHER TESTING

REFER TO THE SURVEY RESULTS DOCUMENT ATTACHED TO THE WO FOR DETAILED INFORMATION.



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: University of South Carolina
743 Greene St
Columbia, SC 29208

Attn: Darryl Washington

Lab Order ID: 1210349

Analysis ID: 1210349PLM

Date Received: 6/21/2012

Date Reported: 6/22/2012

Project: Healthy Learners Bld

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
1	Red/brown shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210349PLM_1					Dissolved
2	Red/brown shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210349PLM_2					Dissolved
3	Red/brown shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210349PLM_3					Dissolved
4	Black shingle	None Detected	15% Fiber Glass	85% Other	Black Non Fibrous Homogeneous
1210349PLM_4					Dissolved
5	Black shingle	None Detected	15% Fiber Glass	85% Other	Black Non Fibrous Homogeneous
1210349PLM_5					Dissolved
6	Black shingle	None Detected	15% Fiber Glass	85% Other	Black Non Fibrous Homogeneous
1210349PLM_6					Dissolved
7	Rolled white shingle	None Detected	20% Cellulose	80% Other	White, Black Non Fibrous Homogeneous
1210349PLM_7					Dissolved
8	Rolled white shingle	None Detected	20% Cellulose	80% Other	White, Black Non Fibrous Homogeneous
1210349PLM_8					Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Estimated MDL is 0.1%.

Bart Huber (15)

Analyst

Nathaniel Durham, MS or Approved Signatory

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

Page 1 of 2



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: University of South Carolina
743 Greene St
Columbia, SC 29208

Attn: Darryl Washington

Lab Order ID: 1210349

Analysis ID: 1210349PLM

Date Received: 6/21/2012

Date Reported: 6/22/2012

Project: Healthy Learners Bld

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
9	Rolled white shingle	None Detected	20% Cellulose	80% Other	White, Black Non Fibrous Homogeneous
1210349PLM_9					Dissolved
10	Black felt paper	None Detected	70% Cellulose	30% Other	Black Non Fibrous Homogeneous
1210349PLM_10					Dissolved
11	Felt	None Detected	70% Cellulose	30% Other	Black Non Fibrous Homogeneous
1210349PLM_11					Dissolved
12	Felt	None Detected	70% Cellulose	30% Other	Black Non Fibrous Homogeneous
1210349PLM_12					Dissolved
13	Mastic	5% Chrysotile	10% Fiber Glass	85% Other	Black Non Fibrous Heterogeneous
1210349PLM_13					Dissolved
14	Mastic	Not Analyzed			
1210349PLM_14					
15	Mastic	Not Analyzed			
1210349PLM_15					

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Bart Huber (15)

Analyst

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

Nathaniel Durham, MS or Approved Signatory

Page 2 of 2

Reset Form

Print Form



Building # HEALTHY LEARNERS BLD

Sample Analysis

06-19-2012

Type of Analysis: Lead / Asbestos Date:

Turn Around Time 24 HRS

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
A	1	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
A	2	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
A	3	RED/BROWN SHINGLE	(per owner) ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
B	4	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
B	5	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
B	6	BLACK SHINGLE	(per owner) ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
7	7	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
8	8	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
9	9	ROLLED WHITE SHINGLE	(per owner) ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
10	10	BLACK FELT PAPER	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW

License # ASBI-00568

FM# tbd

Send lab results in PDF format as soon as possible to:

Ed Pitts 803-777-3296
720 College St.
Columbia, SC 29208
EHP@fmc.sc.edu

Darryl Washington 803-777-2399
720 College St.
Columbia, SC 29208
WashingtonDH@fmc.sc.edu

Signature

Ty Russell 803-777-1208
720 College St.
Columbia, SC 29208
NTRussel@fmc.sc.edu

Requestor D CATHCAR

Fax # 803-777-3990

1210349

Reset Form

Print Form



1210349

Building #

Sample Analysis

Type of Analysis: Lead / Asbestos Date:

Turn Around Time

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
D	11	FELT	UNDER THIRD LAYER OF ROLLED SHINGLE ON WOOD	NF	G	<5000 SQ FT	LOW
D	12	FELT	UNDER THIRD LAYER OF ROLLED SHINGLE ON WOOD	NF	G	<5000 SQ FT	LOW
E	13	MASTIC	SEALER ON TOP SHINGLE SIDE OF HEALTHY LEARNERS	NF	G	<0.5 CB FT	LOW
E	14	MASTIC	SEALER ON TOP SHINGLE SIDE OF HEALTHY LEARNERS	NF	G	<0.5 CB FT	LOW
E	15	MASTIC	SEALER ON TOP SHINGLE SIDE OF HEALTHY LEARNERS	NF	G	<0.5 CB FT	LOW

License #

FM#

Signature

Requestor

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WashingtonD@fmc.sc.edu

Ty Russell 803-777-1208
720 College St.
Columbia, SC 29208
NTRussell@fmc.sc.edu

Fax # 803-777-3990



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Client: University of South Carolina
743 Greene St
Columbia, SC 29208

Attn: Darryl Washington

Lab Order ID: 1210412

Analysis ID: 1210412_TBS

Date Received: 6/22/2012

Date Reported: 6/23/2012

Project: Breeze Way @ Hut/Health Bld

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos (Wt. %)	LCL-UCL (Wt. %)
Lab Sample ID	Lab Notes				
3	Red/brown shingle	19%	-%	None Detected	
1210412TBS_1					
6	Black shingle	17%	-%	None Detected	
1210412TBS_2					
9	Rolled white shingle	46%	-%	None Detected	
1210412TBS_3					
12	Felt	95%	-%	None Detected	
1210412TBS_4					

Rochelle Powers (4)

Analyst


Approved Signatory



Building # BREEZE WAY@ HUT/ HEALTH BLD

Sample Analysis

Type of Analysis: Lead (Asbestos)

Date: 06-19-2012

Turn Around Time 24 HRS

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
A	1	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
A	2	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
A	3	RED/BROWN SHINGLE	(ten or h) ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
B	4	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
B	5	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
B	6	BLACK SHINGLE	(ten or h) ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
7	7	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
8	8	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
9	9	ROLLED WHITE SHINGLE	(ten or h) ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
10	10	BLACK FELT PAPER	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW

License # ASBI-00568

FM# tbd

Send lab results in PDF format as soon as possible to:

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Columbia, SC 29208
EHP@fmc.sc.edu

Darryl Washington 803-777-2399
720 College St.
Columbia, SC 29208
WashingtonDH@fmc.sc.edu

Ty Russell 803-777-1208
720 College St.
Columbia, SC 29208
NTRussell@fmc.sc.edu

Signature [Signature]

Requestor D CATHCAR

Fax # 803-777-3990

1210352



1210352

Sample Analysis

Type of Analysis: Lead / Asbestos Date:

Turn Around Time

[illegible]

License #

EM#

Send lab results in PDF format as soon as possible to:

Ed Pitts 803-777-3296

720 College St.

120 College St.
Columbia, SC 29208

EHP@fmc.sc.edu

Darryl Washington 803-777-2399

720 College St.

120 College St.
Columbia SC 29208

Columbia, SC 29208
WashinDH@fmc.sc.edu

Signature

Requestor

Ty Russell 803-777-1208

720 College St

1720 College St
Columbia, SC 29208

Columbia, SC 29208
NTRusse@fmc.sc.edu

Fax # 803-777-3990



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: University of South Carolina
743 Greene St
Columbia, SC 29208

Attn: Darryl Washington

Lab Order ID: 1210350

Analysis ID: 1210350PLM

Date Received: 6/21/2012

Project: Hut Complex

Date Reported: 6/21/2012

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
1	Red/brown shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210350PLM_1					Dissolved
2	Red/brown shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210350PLM_2					Dissolved
3	Red/brown shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210350PLM_3					Dissolved
4	Black shingle	None Detected	20% Fiber Glass	80% Other	Black Non Fibrous Homogeneous
1210350PLM_4					Dissolved
5	Black shingle	None Detected	20% Fiber Glass	80% Other	Black Non Fibrous Homogeneous
1210350PLM_5					Dissolved
6	Black shingle	None Detected	20% Fiber Glass	80% Other	Black Non Fibrous Homogeneous
1210350PLM_6					Dissolved
7	Rolled shingle	None Detected	20% Fiber Glass	80% Other	Black Non Fibrous Homogeneous
1210350PLM_7					Dissolved
8	Rolled shingle	None Detected	20% Fiber Glass	80% Other	Black Non Fibrous Homogeneous
1210350PLM_8					Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Estimated MDL is 0.1%.

Bart Huber (12)

Analyst

Nathaniel Durham, MS or Approved Signatory

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

Page 1 of 2



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: University of South Carolina
743 Greene St
Columbia, SC 29208

Attn: Darryl Washington

Lab Order ID: 1210350

Analysis ID: 1210350PLM

Date Received: 6/21/2012

Date Reported: 6/21/2012

Project: Hut Complex

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
9	Rolled shingle	None Detected	20% Fiber Glass	80% Other	Black Non Fibrous Homogeneous
1210350PLM_9					Dissolved
10	Black felt paper	None Detected	70% Cellulose	30% Other	Black Non Fibrous Homogeneous
1210350PLM_10					Dissolved
11	Felt	None Detected	70% Cellulose	30% Other	Black Non Fibrous Homogeneous
1210350PLM_11					Dissolved
12	Felt	None Detected	70% Cellulose	30% Other	Black Non Fibrous Homogeneous
1210350PLM_12					Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Estimated MDL is 0.1%.

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Analyst

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Nathaniel Durham, MS or Approved Signatory

Page 2 of 2



HUT COMPLEX

Sample Analysis

Type of Analysis: Lead / Asbestos

Date: 06-19-2012

Turn Around Time 24 HRS

Building #

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
A	1	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
A	2	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
A	3	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
B	4	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
B	5	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
B	6	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
7	7	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
8	8	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
9	9	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
10	10	BLACK FELT PAPER	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW

License # ASBI-00568

FM# tbd

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EPitts@fmc.sc.edu

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720 College St
Columbia, SC 29208
WashingtonD@fmc.sc.edu

Signature

Ty Russell 803-777-1208
720 College St
Columbia, SC 29208
NTRussell@fmc.sc.edu

Requestor D CATHCAR

Fax # 803-777-3990

1210350

120350



Sample Analysis

Building

Type of Analysis: Lead / Asbestos Date:

Turn Around Time

[illegible]

License #

FM#

Signature

Requestor

Send lab results in PDF format as soon as possible to:

Ed Pitts 803-777-3296
720 College St.
Columbia, SC 29208
EHP@fmc.sc.edu

Ty Russell 803-777-1208
720 College St.
Columbia, SC 29208
NTRusse@fmc.sc.edu

Fax # 803-777-3990

FM00399072**USC Work Order****Description** HAZMAT SURVEY OF EXISTING ROOFING MATERIAL - HUT COMPLEX RENOVAT

Site	SALKEHATCH	Assigned To	JPROVENCE				
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Floor	00	Start Date	19-JUN-12	Priority	5		
Room:	001	Due date	20-JUL-12	Request Date	20-JUN-12	by	DCATHCAR
Equipment							

Request #	FM00399072	Description	HAZMAT SURVEY OF EXISTING ROOFING MATERIAL - HUT COMPLEX RENOVAT
Parent WO #			

CP Number	CP00174714	USC SALKEHATCHIE - HUT COMPLEX RENOVATION
------------------	------------	---

State/Internal Project Number	H38-9517
--------------------------------------	----------

Requestor	Project Manager	ZIMMERMAN, D. MALONE
Telephone	Telephone	777-9824
Alternate	Estimated Cost	\$ 1,820.00
Telephone	Billing	FIXED PRICE
Non-Available Time	17660-W928-57140	(ALLENDAL DEFERRED MAINT REPAIRS/RENOVAT)

Task List

DATE WORK STARTED	CAUSE	
DATE WORK COMPLETED	CONDITION	
EQUIPMENT		
CLOSING REMARKS		
BENCHSTOCK MATERIALS		
Qty	Description	Price Per Unit

Supervisor's Approval

Note Date	Title
28-JUN-12	HAZMAT SURVEY RESULTS - HUT BUILDING
SURVEY DATE:6-19-12	
INSPECTOR #: DARRYL WASHINGTON II BI-00568	
STATUS: THE FOLLOWING MATERIALS HAVE BEEN TESTED FOR ASBESTOS CONTAINING MATERIALS RESULTS FOLLOWS	
TOP ROOFING MATERIAL- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS	
2ND LAYER ROOFING-NEGATIVE FOR ASBESTOS CONTAINING MATERIALS	
3RD ROLLED LAYER ROOFING- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS	
FELT PAPER- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS	
IF YOU ENCOUNTER ANY SUSPECT MATERIALS IN PLACE AND DEEM IT SUSPECT FOR ASBESTOS AND IT IS NOT LISTED PLEASE STOP WORK AND CALL THE ASBESTOS PROGRAM MANAGER FOR FURTHER TESTING OR ABATEMENT	
REFER TO THE SURVEY RESULTS DOCUMENT ATTACHED TO THE WO FOR DETAILED INFORMATION.	

28-JUN-12 HAZMAT SURVEY RESULTS- BOY SCOUTS BUILDING

SURVEY DATE:6-19-12

INSPECTOR #: DARRYL WASHINGTON II BI-00568

STATUS: THE FOLLOWING MATERIALS HAVE BEEN TESTED FOR ASBESTOS CONTAINING MATERIALS

TOP LAYER SHINGLES-NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

2ND LAYER SHINGLES-NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

3RD LAYER ROLLED SHINGLES- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

FELT PAPER- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

IF YOU ENCOUNTER ANY SUSPECT MATERIALS IN PLACE AND DEEM IT SUSPECT FOR ASBESTOS AND IT IS NOT LISTED ABOVE PLEASE STOP WORK AND CALL THE ASBESTOS PROGRAM MANAGER FOR FURTHER TESTING OR ABATEMENT

REFER TO THE SURVEY RESULTS DOCUMENT ATTACHED TO THE WO FOR DETAILED INFORMATION.

28-JUN-12 HAZMAT SURVEY RESULTS - BREEZEWAY

SURVEY DATE:6-19-12

INSPECTOR #: DARRYL WASHINGTON II BI-00568

STATUS: THE FOLLOWING MATERIALS HAVE BEEN TESTED FOR ASBESTOS CONTAINING MATERIALS RESULTS FOLLOWS

FIRST LAYER SHINGLES- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

2ND LAYER SHINGLES- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

3RD LAYER ROLLED SHINGLES- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

FELT PAPER- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

BLACK MASTIC (ROLLED ON TOP LAYER OF SHINGLE CONNECTED TO HEALTHY LEARNERS BUILDING ONLY)- POSITIVE FOR ASBESTOS CONTAINING MATERIALS

IF YOU ENCOUNTER ANY SUSPECT MATERIALS IN PLACE AND DEEM IT SUSPECT FOR ASBESTOS AND IT IS NOT LISTED ABOVE PLEASE STOP WORK AND CALL THE ASBESTOS PROGRAM MANAGER FOR FURTHER TESTING

REFER TO THE SURVEY RESULTS DOCUMENT ATTACHED TO THE WO FOR DETAILED INFORMATION.

28-JUN-12 HAZMAT SURVEY RESULTS - CONCRETE SHED

SURVEY DATE:6-19-2012

INSPECTOR #: DARRYL WASHINGTON II BI-00568

STATUS: THE FOLLOWING MATERIALS HAVE BEEN TESTED FOR ASBESTOS CONTAINING MATERIALS RESULTS FOLLOWS

TOP LAYER SHINGLES- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

2ND LAYER SHINGLES- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

FELT PAPER- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

IF YOU ENCOUNTER ANY SUSPECT MATERIALS IN PLACE AND DEEM IT SUSPECT FOR ASBESTOS AND IT IS NOT LISTED ABOVE PLEASE STOP WORK AND CALL THE ASBESTOS PROGRAM MANAGER FOR FURTHER TESTING OR ABATEMENT

REFER TO THE SURVEY RESULTS DOCUMENT ATTACHED TO THE WO FOR DETAILED INFORMATION.

28-JUN-12 HAZMAT SURVEY RESULTS - HEALTHY LEARNERS BLD

SURVEY DATE:6-19-12

INSPECTOR #: DARRYL WASHINGTON II ASBI-00568

STATUS: THE FOLLOWING MATERIALS HAVE BEEN TESTED FOR ASBESTOS CONTAINING MATERIALS RESULTS FOLLOWS

1ST LAYER OF SHINGLES- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

2ND LAYER OF SHINGLES- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

3RD LAYER ROLLED ROOFING- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

FELT PAPER- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

IF YOU ENCOUNTER ANY SUSPECT MATERIALS IN PLACE AND DEEM IT SUSPECT FOR ASBESTOS AND IT IS NOT LISTED ABOVE PLEASE STOP WORK AND CALL THE ASBESTOS PROGRAM MANAGER FOR FURTHER TESTING

REFER TO THE SURVEY RESULTS DOCUMENT ATTACHED TO THE WO FOR DETAILED INFORMATION.



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



NVLAP
NVLAP Lab Code: 200004-0

Customer: University of South Carolina
743 Greene St
Columbia, SC 29208

Attn: Darryl Washington

Lab Order ID: 1210344

Analysis ID: 1210344PLM

Date Received: 6/21/2012

Project: Concrete Shed

Date Reported: 6/21/2012

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
1	Top layer shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210344PLM_1					Dissolved
2	Top layer shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210344PLM_2					Dissolved
3	Top layer shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210344PLM_3					Dissolved
4	Second layer shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210344PLM_4					Dissolved
5	Second layer shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210344PLM_5					Dissolved
6	Second layer shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210344PLM_6					Dissolved
7	Blk felt paper	None Detected	70% Cellulose	30% Other	Black Non Fibrous Homogeneous
1210344PLM_7					Dissolved
8	Blk felt paper	None Detected	70% Cellulose	30% Other	Black Non Fibrous Homogeneous
1210344PLM_8					Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Estimated MDL is 0.1%.

Bart Huber (9)

Analyst

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

Nathaniel Durham, MS or Approved Signatory

Page 1 of 2



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



NVLAP
NVLAP Lab Code: 2009-04-01

Customer: University of South Carolina
743 Greene St
Columbia, SC 29208

Attn: Darryl Washington

Lab Order ID: 1210344

Analysis ID: 1210344PLM

Date Received: 6/21/2012

Date Reported: 6/21/2012

Project: Concrete Shed

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
9	Blk felt paper	None Detected	70% Cellulose	30% Other	Black Non Fibrous Homogeneous
1210344PLM_9					Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommended that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAL. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Estimated MDL is 0.1%.

Bart Huber (9)

Analyst

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Page 2 of 2



Building # CONCRETE STORAGE SHED

Sample Analysis

Type of Analysis: Lead / Asbestos Date: 6/19/12

Turn Around Time 24 hrs

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
A	1	TOP LAYER SHINGLE	1ST LAYER OF ROOFING OF SHED	NF	G	<500 SQ FT	LOW
A	2	TOP LAYER SHINGLE	1ST LAYER OF ROOFING OF SHED	NF	G	<500 SQ FT	LOW
A	3	TOP LAYER SHINGLE	(from 1st layer) 1ST LAYER OF ROOFING OF SHED	NF	G	<500 SQ FT	LOW
B	4	SECOND LAYER SHINGLE	2ND LAYER OF ROOFING OF SHED	NF	G	<500 SQ FT	LOW
B	5	SECOND LAYER SHINGLE	2ND LAYER OF ROOFING OF SHED	NF	G	<500 SQ FT	LOW
B	6	SECOND LAYER SHINGLE	(from 2nd layer) 2ND LAYER OF ROOFING OF SHED	NF	G	<500 SQ FT	LOW
C	7	BLK FELT PAPER	MATERIAL UNDER SECOND LAYER ON WOOD	NF	G	<500 SQ FT	LOW
C	8	BLK FELT PAPER	MATERIAL UNDER SECOND LAYER ON WOOD	NF	G	<500 SQ FT	LOW
C	9	BLK FELT PAPER	(from 2nd layer) MATERIAL UNDER SECOND LAYER ON WOOD	NF	G	<500 SQ FT	LOW

License # ASBI-00568 FM# TBD Signature Requestor D CATCAR

Send lab results in PDF format as soon as possible to:

Ed Pitts 803-777-3296
720 College St.
Columbia, SC 29208
EHP@fmc.sc.edu

Darryl Washington 803-777-2399
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Columbia, SC 29208
WashingtonD@fmc.sc.edu

Ty Russell 803-777-1208
720 College St.
Columbia, SC 29208
NTRussell@fmc.sc.edu

Fax # 803-777-3990



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Client: University of South Carolina
743 Greene St
Columbia, SC 29208

Attn: Darryl Washington

Lab Order ID: 1210410

Analysis ID: 1210410_TBS

Date Received: 6/22/2012

Date Reported: 6/23/2012

Project: Boy Scout Building

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos (Wt. %)	LCL-UCL (Wt. %)
Lab Sample ID	Lab Notes				
3	Red/brown shingle	20.0%	-0%	None Detected	
1210410TBS_1					
6	Black shingle	18%	-0%	None Detected	
1210410TBS_2					
9	Rolled white shingle	29%	-0%	None Detected	
1210410TBS_4					
12	Felt	59%	-0%	None Detected	
1210410TBS_5					

Rochelle Powers (4)

Analyst

Approved Signatory

1210356
1210410
1210355



Building # BOY SCOUT BUILDING

Sample Analysis

Type of Analysis: Lead / Asbestos Date: 06-19-2012

Turn Around Time 24 HRS

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
A	1	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
A	2	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
A	3	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
B	4	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
B	5	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
B	6	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
7	7	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
8	8	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
9	9	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
10	10	BLACK FELT PAPER	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW

License # ASBI-00568

FM# tbd

Signature

[Signature]

Requestor D CATHCAR

Send lab results in PDF format as soon as possible to:

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WashingtonD@fmc.sc.edu

Ty Russell 803-777-1208
720 College St.
Columbia, SC 29208
NTRussell@fmc.sc.edu

Fax # 803-777-3990



1210356
1210410

Sample Analysis

Building # _____

Type of Analysis: Lead / Asbestos Date:

Turn Around Time

[illegible]

License #

FM#

Signature _____

Requestor

Send lab results in PDF format as soon as possible to:

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NTRusse@fmc.sc.edu

Fax # 803-777-3990



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: University of South Carolina
743 Greene St
Columbia, SC 29208

Attn: Darryl Washington

Lab Order ID: 1210349

Analysis ID: 1210349PLM

Date Received: 6/21/2012

Project: Healthy Learners Bld

Date Reported: 6/22/2012

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
1	Red/brown shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210349PLM_1					Dissolved
2	Red/brown shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210349PLM_2					Dissolved
3	Red/brown shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210349PLM_3					Dissolved
4	Black shingle	None Detected	15% Fiber Glass	85% Other	Black Non Fibrous Homogeneous
1210349PLM_4					Dissolved
5	Black shingle	None Detected	15% Fiber Glass	85% Other	Black Non Fibrous Homogeneous
1210349PLM_5					Dissolved
6	Black shingle	None Detected	15% Fiber Glass	85% Other	Black Non Fibrous Homogeneous
1210349PLM_6					Dissolved
7	Rolled white shingle	None Detected	20% Cellulose	80% Other	White, Black Non Fibrous Homogeneous
1210349PLM_7					Dissolved
8	Rolled white shingle	None Detected	20% Cellulose	80% Other	White, Black Non Fibrous Homogeneous
1210349PLM_8					Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAL. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Estimated MDL is 0.1%.

Bart Huber (15)

Analyst

Nathaniel Durham, MS or Approved Signatory

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

Page 1 of 2



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: University of South Carolina
743 Greene St
Columbia, SC 29208

Attn: Darryl Washington

Lab Order ID: 1210349

Analysis ID: 1210349PLM

Date Received: 6/21/2012

Date Reported: 6/22/2012

Project: Healthy Learners Bld

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
9	Rolled white shingle	None Detected	20% Cellulose	80% Other	White, Black Non Fibrous Homogeneous
1210349PLM_9					Dissolved
10	Black felt paper	None Detected	70% Cellulose	30% Other	Black Non Fibrous Homogeneous
1210349PLM_10					Dissolved
11	Felt	None Detected	70% Cellulose	30% Other	Black Non Fibrous Homogeneous
1210349PLM_11					Dissolved
12	Felt	None Detected	70% Cellulose	30% Other	Black Non Fibrous Homogeneous
1210349PLM_12					Dissolved
13	Mastic	5% Chrysotile	10% Fiber Glass	85% Other	Black Non Fibrous Heterogeneous
1210349PLM_13					Dissolved
14	Mastic	Not Analyzed			
1210349PLM_14					
15	Mastic	Not Analyzed			
1210349PLM_15					

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAL. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Estimated MDL is 0.1%.

Bart Huber (15)

Analyst

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Nathaniel Durham, MS or Approved Signatory

Page 2 of 2

Reset Form

Print Form



1210349

Building # HEALTHY LEARNERS BLD

Sample Analysis

06-19-2012

Type of Analysis: Lead / Asbestos Date:

Turn Around Time 24 HRS

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
A	1	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
A	2	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
A	3	RED/BROWN SHINGLE	(1st only) ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
B	4	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
B	5	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
B	6	BLACK SHINGLE	(1st only) ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
7	7	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
8	8	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
9	9	ROLLED WHITE SHINGLE	(1st only) ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
10	10	BLACK FELT PAPER	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW

License # ASBI-00568

FM# tbd

Send lab results in PDF format as soon as possible to:

Ed Pitts 803-777-3296
720 College St.
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Darryl Washington 803-777-2399
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WashingtonDH@fmc.sc.edu

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Columbia, SC 29208
NTRusse@fmc.sc.edu

Requestor D CATHCAR

Fax # 803-777-3990

Reset Form

Print Form



1210349

Building # _____

Sample Analysis

Type of Analysis: Lead / Asbestos Date: _____

Turn Around Time _____

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
D	11	FELT	UNDER THIRD LAYER OF ROLLED SHINGLE ON WOOD	NF	G	<5000 SQ FT	LOW
D	12	FELT	UNDER THIRD LAYER OF ROLLED SHINGLE ON WOOD	NF	G	<5000 SQ FT	LOW
E	13	MASTIC	SEALER ON TOP SHINGLE SIDE OF HEALTHY LEARNERS	NF	G	<0.5 CB FT	LOW
E	14	MASTIC	SEALER ON TOP SHINGLE SIDE OF HEALTHY LEARNERS	NF	G	<0.5 CB FT	LOW
E	15	MASTIC	SEALER ON TOP SHINGLE SIDE OF HEALTHY LEARNERS	NF	G	<0.5 CB FT	LOW

License # _____

FM# _____

Signature _____

Requestor _____

Send lab results in PDF format as soon as possible to:

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Columbia, SC 29208
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Darryl Washington 803-777-2399
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Columbia, SC 29208
WashingtonD@fmc.sc.edu

Ty Russell 803-777-1208
720 College St.
Columbia, SC 29208
NTRussell@fmc.sc.edu

Fax # 803-777-3990



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: University of South Carolina
743 Greene St
Columbia, SC 29208

Attn: Darryl Washington

Lab Order ID: 1210352

Analysis ID: 1210352PLM

Date Received: 6/21/2012

Date Reported: 6/22/2012

Project: Breeze Way @ Hut / Health Bld

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
1	Red/brown shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210352PLM_1					Dissolved
2	Red/brown shingle	None Detected	20% Fiber Glass	80% Other	Red, Yellow, Black Non Fibrous Homogeneous
1210352PLM_2					Dissolved
3	Red/brown shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210352PLM_3					Dissolved
4	Black shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210352PLM_4					Dissolved
5	Black shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210352PLM_5					Dissolved
6	Black shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210352PLM_6					Dissolved
7	Rolled white shingle	None Detected	15% Cellulose	85% Other	White, Black Non Fibrous Homogeneous
1210352PLM_7					Dissolved
8	Rolled white shingle	None Detected	15% Cellulose	85% Other	White, Black Non Fibrous Homogeneous
1210352PLM_8					Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Estimated MDL is 0.1%.

Bart Huber (12)

Analyst

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

Nathaniel Durham, MS or Approved Signatory

Page 1 of 2



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: University of South Carolina
743 Greene St
Columbia, SC 29208

Attn: Darryl Washington

Lab Order ID: 1210352

Analysis ID: 1210352PLM

Date Received: 6/21/2012

Date Reported: 6/22/2012

Project: Breeze Way @ Hut / Health Bld

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
9	Rolled white shingle	None Detected	15% Cellulose	85% Other	White, Black Non Fibrous Homogeneous
1210352PLM_9					Dissolved
10	Black felt paper	None Detected	70% Cellulose	30% Other	Black Non Fibrous Homogeneous
1210352PLM_10					Dissolved
11	Felt	None Detected	70% Cellulose	30% Other	Black Non Fibrous Homogeneous
1210352PLM_11					Dissolved
12	Felt	None Detected	70% Cellulose	30% Other	Black Non Fibrous Homogeneous
1210352PLM_12					Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommended that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAL. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Estimated MDL is 0.1%.

Bart Huber (12)

Analyst

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Page 2 of 2

Reset Form

Print Form



Building # BREEZE WAY@ HUT/ HEALTH BLD

Sample Analysis
Type of Analysis: Lead (Asbestos)

Date: 06-19-2012

Turn Around Time 24 HRS

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
A	1	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
A	2	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
A	3	RED/BROWN SHINGLE	(ten or) ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
B	4	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
B	5	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
B	6	BLACK SHINGLE	(ten or) ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
7	7	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
8	8	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
9	9	ROLLED WHITE SHINGLE	(ten or) ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
10	10	BLACK FELT PAPER	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW

License # ASBI-00568

FM# tbd

Send lab results in PDF format as soon as possible to:

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720 College St.
Columbia, SC 29208
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Darryl Washington 803-777-2399
720 College St.
Columbia, SC 29208
WashingtonDH@fmc.sc.edu

Signature

Requestor

D CATHCAR

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NTRussell@fmc.sc.edu

Fax # 803-777-3990

1210352

Print Form

1210352



Sample Analysis

Type of Analysis:	Lead / Asbestos	Date:	
Turn Around Time			

Building #

Turn Around Time

[illegible]

License #

#M#

Send lab results in PDF format as soon as possible to:

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



NVLAP
NVLAP Lab Code: 2006040

Customer: University of South Carolina
743 Greene St
Columbia, SC 29208

Attn: Darryl Washington

Lab Order ID: 1210356

Analysis ID: 1210356PLM

Date Received: 6/21/2012

Project: Boy Scout Building

Date Reported: 6/22/2012

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
1	Red/brown shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210356PLM_1					Dissolved
2	Red/brown shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210356PLM_2					Dissolved
3	Red/brown shingle	None Detected	20% Fiber Glass	80% Other	Red, Brown, Black Non Fibrous Homogeneous
1210356PLM_3					Dissolved
4	Black shingle	None Detected	15% Fiber Glass	85% Other	Black Non Fibrous Homogeneous
1210356PLM_4					Dissolved
5	Black shingle	None Detected	15% Fiber Glass	85% Other	Black Non Fibrous Homogeneous
1210356PLM_5					Dissolved
6	Black shingle	None Detected	15% Fiber Glass	85% Other	Black Non Fibrous Homogeneous
1210356PLM_6					Dissolved
7	Rolled white shingle	None Detected	20% Fiber Glass	80% Other	White, Black Non Fibrous Homogeneous
1210356PLM_7					Dissolved
8	Rolled white shingle	None Detected	20% Fiber Glass	80% Other	White, Black Non Fibrous Homogeneous
1210356PLM_8					Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Estimated MDL is 0.1%.

Bart Huber (12)

Analyst

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

Nathaniel Durham, MS or Approved Signatory

Page 1 of 2



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: University of South Carolina
743 Greene St
Columbia, SC 29208

Attn: Darryl Washington

Lab Order ID: 1210356

Analysis ID: 1210356PLM

Date Received: 6/21/2012

Date Reported: 6/22/2012

Project: Boy Scout Building

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
9	Rolled white shingle	None Detected	20% Fiber Glass	80% Other	Blue, Black Non Fibrous Homogeneous
1210356PLM_9					Dissolved
10	Black felt paper	None Detected	70% Cellulose	30% Other	Black Non Fibrous Homogeneous
1210356PLM_10					Dissolved
11	Felt	None Detected	70% Cellulose	30% Other	Black Non Fibrous Homogeneous
1210356PLM_11					Dissolved
12	Felt	None Detected	70% Cellulose	30% Other	Black Non Fibrous Homogeneous
1210356PLM_12					Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Estimated MDL is 0.1%.

Bart Huber (12)

Analyst

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Page 2 of 2

Reset Form

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Building # BOY SCOUT BUILDING

Sample Analysis

Type of Analysis: Lead / Asbestos Date: 06-19-2012

Turn Around Time 24 HRS

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
A	1	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
A	2	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
A	3	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
B	4	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
B	5	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
B	6	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
7	7	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
8	8	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
9	9	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
10	10	BLACK FELT PAPER	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW

License # ASBI-00568

FM# tbd

Signature

Requestor D CATHCAR

Send lab results in PDF format as soon as possible to:

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EHP@fmc.sc.edu

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Ty Russell 803-777-1208
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NTRusse@fmc.sc.edu

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1210356

1210356



Sample Analysis

Type of Analysis: Lead / Asbestos Date:

Building #

Turn Around Time

[illegible]

License #

FM#

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Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Client: University of South Carolina
743 Greene St
Columbia, SC 29208

Attn: Darryl Washington

Lab Order ID: 1210407

Analysis ID: 1210407_TBS

Date Received: 6/22/2012

Date Reported: 6/23/2012

Project: Healthy Learners Bld

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos (Wt. %)	LCL-UCL (Wt. %)
Lab Sample ID	Lab Notes				
3	Red/brown shingle	15%	-%	None Detected	
1210407TBS_1					
6	Black shingle	17%	-%	None Detected	
1210407TBS_2					
9	Rolled white shingle	42%	-%	None Detected	
1210407TBS_3					
12	Felt	80.0%	-%	None Detected	
1210407TBS_4					

Rochelle Powers (4)

Analyst

Approved Signatory

1210349



Building # HEALTHY LEARNERS BLD Sample Analysis Date: 06-19-2012 Turn Around Time 24 HRS

Type of Analysis: Lead / Asbestos

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
A	1	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
A	2	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
A	3	RED/BROWN SHINGLE	(Turn over) ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
B	4	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
B	5	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
B	6	BLACK SHINGLE	(Turn over) ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
7	7	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
8	8	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
9	9	ROLLED WHITE SHINGLE	(Turn over) ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
10	10	BLACK FELT PAPER	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW

License # ASBI-00568 FM# tbd Requestor D CATHCAR

Signature *[Signature]*

Send lab results in PDF format as soon as possible to:

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 EHP@fmc.sc.edu WashinDH@fmc.sc.edu

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 Columbia, SC 29208
 NTRusse@fmc.sc.edu

Fax # 803-777-3990

1210349



Sample Analysis

Type of Analysis: Lead / Asbestos Date:

Building #

Turn Around Time

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
D	11	FELT	UNDER THIRD LAYER OF ROLLED SHINGLE ON WOOD	NF	G	<5000 SQ FT	LOW
D	12	FELT	UNDER THIRD LAYER OF ROLLED SHINGLE ON WOOD	NF	G	<5000 SQ FT	LOW
E	13	MASTIC	SEALER ON TOP SHINGLE SIDE OF HEALTHY LEARNERS	NF	G	<0.5 CB FT	LOW
E	14	MASTIC	SEALER ON TOP SHINGLE SIDE OF HEALTHY LEARNERS	NF	G	<0.5 CB FT	LOW
E	15	MASTIC	SEALER ON TOP SHINGLE SIDE OF HEALTHY LEARNERS	NF	G	<0.5 CB FT	LOW

License #

#ME

Signature

Requestor

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Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Client: University of South Carolina
743 Greene St
Columbia, SC 29208

Attn: Darryl Washington

Lab Order ID: 1210398

Analysis ID: 1210398_TBS

Date Received: 6/22/2012

Date Reported: 6/23/2012

Project: Hut Complex

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos (Wt. %)	LCL-UCL (Wt. %)
Lab Sample ID	Lab Notes				
3	Red/brown shingle	11%	-%	None Detected	
1210398TBS_1					
6	Black shingle	18%	-%	None Detected	
1210398TBS_2					
9	Rolled shingle	17%	-%	None Detected	
1210398TBS_3					
12	Felt	87%	-%	None Detected	
1210398TBS_4					

Rochelle Powers (4)

Analyst

Approved Signatory

Reset Form

Print Form



1210350

Building # HUT COMPLEX

Sample Analysis
Type of Analysis: Lead / Asbestos

06-19-2012

Turn Around Time

24 HRS

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
A	1	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
A	2	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
A	3	RED/BROWN SHINGLE	ROOFING MATERIAL 1ST LAYER	NF	G	<5000 SQ FT	LOW
B	4	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
B	5	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
B	6	BLACK SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
7	7	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
8	8	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
9	9	ROLLED WHITE SHINGLE	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW
10	10	BLACK FELT PAPER	ROOFING MATERIAL	NF	G	<5000 SQ FT	LOW

1210398

License # ASBL00568

FM#

Signature

Requestor D CATHCAR

Send lab results in PDF format as soon as possible to:
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 Columbia, SC 29208
 NTRussell@fmc.sc.edu

Fax # 803-777-3990



120350

#güplinq

Sample Analysis

Type of Analysis: Lead / Asbestos Date:

Turn Around Time

[illegible]

License #

EM#

Signature

Requestor

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Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Client: University of South Carolina
743 Greene St
Columbia, SC 29208

Attn: Darryl Washington

Lab Order ID: 1210406

Analysis ID: 1210406_TBS

Date Received: 6/22/2012

Date Reported: 6/23/2012

Project: Concrete Shed

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos (Wt. %)	LCL-UCL (Wt. %)
Lab Sample ID	Lab Notes				
3	Top layer shingle	7.5%	-%	None Detected	
1210406TBS_1					
6	Second layer shingle	17%	-%	None Detected	
1210406TBS_2					
9	Blk felt paper	96%	-%	None Detected	
1210406TBS_3					

Rochelle Powers (3)

Analyst

Approved Signatory

Lab Use Only
Lab Order ID:
Client Code:

12,0344

Company Contact Information	
Company: University of South Carolina	Contact: Darryl Washington II
Address: 743 Greene St	Phone ☐ : 803 917 0291
Columbia, SC 29208	Fax ☐ :
	Email ☐ : Washington.D@sc.edu

PLM EPA 600/R-93/116	☐
Positive stop	☒
PLM Point Count	☐
PCM NIOSH 7400	☐
TEM AHERA	☐
TEM Level II	☐
TEM NIOSH 7402	☐
TEM Bulk Qualitative	☐
TEM Bulk Chasfield	☒
TEM Bulk Quantitative	☐
TEM Wipe ASTM D6480-99	☐
TEM Microvac ASTM D5755-02	☐
TEM Water EPA 100.2	☐
Other: _____	☐

Billing/Invoice Information	Time Allowed/Time Used	
Company:	90 Min. ☐	48 Hours ☐
Contact:	3 Hours ☐	72 Hours ☐
Address:	6 Hours ☐	96 Hours ☐
	12 Hours ☐	120 Hours ☐
	24 Hours ☐	144 ⁺ Hours ☐

PO Number: _____
Project Name/Number: Concrete Steel

[illegible]

Accepted
Rejected

Reference #		Date Recd		Total # of Samples
			<i>Sholstan</i>	9/21/09



Building # CONCRETE STORAGE SHED

Sample Analysis
Type of Analysis: Lead / Asbestos Date: 6/19/12

Turn Around Time 24 hrs

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
A	1	TOP LAYER SHINGLE	1ST LAYER OF ROOFING OF SHED	NF	G	<500 SQ FT	LOW
A	2	TOP LAYER SHINGLE	1ST LAYER OF ROOFING OF SHED	NF	G	<500 SQ FT	LOW
A	3	TOP LAYER SHINGLE	(1st sh) 1ST LAYER OF ROOFING OF SHED	NF	G	<500 SQ FT	LOW
B	4	SECOND LAYER SHINGLE	2ND LAYER OF ROOFING OF SHED	NF	G	<500 SQ FT	LOW
B	5	SECOND LAYER SHINGLE	2ND LAYER OF ROOFING OF SHED	NF	G	<500 SQ FT	LOW
B	6	SECOND LAYER SHINGLE	(2nd sh) 2ND LAYER OF ROOFING OF SHED	NF	G	<500 SQ FT	LOW
C	7	BLK FELT PAPER	MATERIAL UNDER SECOND LAYER ON WOOD	NF	G	<500 SQ FT	LOW
C	8	BLK FELT PAPER	MATERIAL UNDER SECOND LAYER ON WOOD	NF	G	<500 SQ FT	LOW
C	9	BLK FELT PAPER	(2nd sh) MATERIAL UNDER SECOND LAYER ON WOOD	NF	G	<500 SQ FT	LOW

License # ASBI-00568

FM# TBD

Signature

[Signature]

Requestor D-CATCAR

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