

Addendum Number Two

Date of Issue: 03/30/18

Project: USC School of Nursing 409 Renovation

Project Number: H27 Z367

TO: ALL BIDDERS OF RECORD

This addendum modifies the Contract documents only in the manner and to the extent stated herein and shown on any accompanying drawings and will become part of the Contract Documents. Except as specified or otherwise indicated by this Addendum, all work shall be in accordance with the basic requirements of the Contract Documents.

BIDDERS SHALL ACKNOWLEDGE RECEIPT OF ADDENDUM IN THE SPACE PROVIDED ON THE BID FORM. FAILURE TO DO SO MAY CONSTITUTE A REASON TO REJECT THE BID.

This Addendum consists of eighteen (18) pages including this document and the following:

I. Enclosures:

1. USC Hazardous Materials Survey (16 pages)

II. General Information: Questions and Answers

The pre-bid discussion items and subsequent questions were reviewed. The following points for clarification are clarified:

1. BUILDING ACCESS PRIOR TO BIDDING:

Site visits may be scheduled to occur prior to close of business Tuesday, April 3rd. Please contact Felicia Stevenson at 803-777-3861 to arrange for a site visit.

III. Changes to the Specifications:

1. SECTION 010000 SPECIAL CONDITIONS AND REQUIREMENTS:

In Paragraph 1.6.A. Add 'USC Hazardous Materials Survey dated 03/27/2018 as attached' to the end of this section (16 pages attached).

2. SECTION 098319 ACOUSTICAL WALL PANELS:

In Paragraph 2.2.A:

- a. In line 5. delete '3/4 inch.' and replace with '2 inches.'
- b. In line 7. delete '0.90' and replace with '1.05'

IV. Changes to the Drawings:

1. A700 FINISH PLAN, SCHEDULES AND MATERIALS LEGEND:

On the 4TH FLOOR ROOM FINISH SCHEDULE for room 407 and 409 Floor Finish, delete '4TH FLOOR' and replace room 407 with 'LVT1' and room 409 with 'CPT1'.

V. Prior Approvals

1. LIGHTING FIXTURES:

| TYPE | MANUFACTURER | PART |
|-------|---------------|---|
| AA | PINNACLE | EV3D-HE-35-40'-G1-U-OL2-1-W |
| BF | PINNACLE | EV3D-WHE-35-22'-FL-U-OL2-1-W (Pending approval of light output) |
| BG | PINNACLE | EV3D-WHE-35-8'-G1-U-OL2-1-W (Pending approval of light output) |
| CC | INTENSE | IQ-L1-35-DIM-B-SP-PS (Fixture Head) |
| CC | INTENSE | IPS(LENGTH)-B-Recessed Track |
| DD/DE | ELITE | HH4-LED-2000L-DIMTR-120-MD-35-85+/HH4-4501-CL-WH (EMG-LED) |
| FF | H.E. WILLIAMS | 75S-4-L30/835-VBY-2-DRV-UNV |
| XX | EMERGI-LITE | WW-TXN-1-G |

2. SUSPENDED ACOUSTICAL CEILINGS:

Approved Manufacturer's product to match all requirements as specified complete, or subject to being rejected during submittal process.

- 1. Norton Industries, Inc. – Acoustiline Ceilings and Walls

3. ACOUSTICAL WALL PANELS:

Approved Manufacturer's product to match all requirements as specified complete, or subject to being rejected during submittal process.

- 1. AVL Systems High Performance Acoustical Wall Panels
- 2. Conwed Designscape – Respond ACT Acoustical Panels

4. INTERIOR PAINTING:

Approved Manufacturer's product to match all requirements as specified complete, or subject to being rejected during submittal process.

- 1. Rose Talbert

END OF ADDENDUM TWO

FM00560062**USC Work Order**

Description HAZMAT SURVEY - 056

| | |
|---|---|
| Site COLUMBIA | Assigned To JPROVENCE |
| Building 056 WILLIAMS-BRICE BUILDING | Crew HAZMAT |
| Floor 04 Room: 409 | Start Date 15-DEC-17 Priority 20 |
| Equipment | Due date 15-JAN-18 |
| | Request Date 24-OCT-17 by CAMOORE |

| | |
|-----------------------------|--|
| Request # FM00560062 | Description HAZMAT SURVEY - 056 |
| Parent WO # | |

| | |
|-----------------------------|--|
| CP Number 50003301-2 | SCHOOL OF NURSING - CLASSROOM 409 RENOVATION |
|-----------------------------|--|

| |
|---|
| State/Internal Project Number H27-Z367 |
|---|

| | |
|---------------------------|---|
| Requestor | Project Manager LINDSAY, ALFRED A |
| Telephone | Telephone 777-1140 |
| Alternate | Estimated Cost \$ 0.00 |
| Telephone | Billing FIXED PRICE |
| Non-Available Time | 53200-W351-57120 (SCHOOL OF NURSING-CLASSROOM 409 RENO) |

Task List

PLEASE SURVEY ALL ACMS IN ALL SURFACES AND SUBSURFACES [I.E. ACT, CARPET, GLAZING, GWB, ETC.] AT WBB - COLLEGE OF NURSING [CON], ROOM 409.

EST. SURVEY COST - NTE \$850.00.
START DATE - 15 DEC 2017; END DATE - 15 JAN 2018

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

Supervisor's Approval _____

| | |
|---|------------------------------|
| Note Date | Title |
| 17-JAN-18 | HAZMAT SURVEY RESULTS PART I |
| SURVEY DATE: 01/17/2018 | |
| INSPECTOR #: SIMONE WARREN (GR00052) | |
| SCOPE: THE FOLLOWING SURVEY WAS PERFORMED IN PREPARATION FOR UPCOMING RENOVATIONS SCHEDULED TO TAKE PLACE IN CLASSROOM 409, OFFICE 407 AND 408. RENOVATION PLANS ALSO INCLUDE RUNNING CONDUIT ABOVE CEILINGS IN H402 TO CHASE ACCESS 412 AND INSTALLING MECHANICAL UNITS ON THE ROOF. | |



ASBESTOS SECTION:

PREVIOUS RESULTS (PLEASE REFER TO FM00504090)
 SHEET FLOORING: POSITIVE FOR ASBESTOS
 BLACK MASTIC UNDER FLOORING: POSITIVE FOR ASBESTOS
 TEXTURED WALL MATERIAL: POSITIVE FOR ASBESTOS
 TEXTURED CEILING MATERIAL: POSITIVE FOR ASBESTOS
 OLIVE DUCT MASTIC: POSITIVE FOR ASBESTOS
 BLACK MASTIC ON FIBERGLASS LINES: POSITIVE FOR ASBESTOS
 PIPE INSULATION: POSITIVE FOR ASBESTOS
 JOINT COMPOUND: NEGATIVE FOR ASBESTOS
 SHEETROCK: NEGATIVE FOR ASBESTOS
 FIREPROOFING: NEGATIVE FOR ASBESTOS
 2X2 CEILING TILES: NEGATIVE FOR ASBESTOS
 2X4 CEILING TILES: NEGATIVE FOR ASBESTOS

NEW RESULTS:

BLACK HVAC DUCT MASTIC: POSITIVE FOR ASBESTOS (PLEASE SEE INSPECTORS NOTES LINE 1)
 BLACK PAINTED HVAC DUCT MASTIC (ON SHEET METAL DUCT-CLASSROOM 409): NEGATIVE FOR ASBESTOS (SEE LINE 2 INSPECTORS NOTES)
 WHITE HVAC DUCT MASTIC: NEGATIVE FOR ASBESTOS
 TRANSITE WINDOW PANELS/MASTIC/GRAY CAULK: POSITIVE FOR ASBESTOS (SEE INSPECTORS NOTES LINE 4)
 EXISTING ROOFING MATERIAL: NEGATIVE FOR ASBESTOS
 BLACK CHALKBOARD (EAST WALL): NON-SUSPECT FOR ASBESTOS (SEE INSPECTORS NOTES LINER 5)
 WHITE WINDOW PANEL COVERING/MASTIC: NEGATIVE FOR ASBESTOS
 BROWN WINDOW VINYL STRIPS (NO MASTIC PRESENT): NEGATIVE FOR ASBESTOS
 BLACK MASTIC BEHIND FIBERGLASS PADDING (BEHIND TRANSITE PANELS): NEGATIVE FOR ASBESTOS
 YELLOW MASTIC (BEHIND ACOUSTICAL-SOUND PROOFING WALL): NEGATIVE FOR ASBESTOS
 BLACK WINDOW VINYL STRIPS(NO MASTIC PRESENT): NEGATIVE FOR ASBESTOS
 BEIGE CAULK (BELOW RISERS): NEGATIVE FOR ASBESTOS
 BLACK CAULK (BELOW RISERS): NEGATIVE FOR ASBESTOS
 ACOUSTICAL PANEL WALL MATERIAL: NEGATIVE FOR ASBESTOS
 GREY CAULK (AROUND PERIMETER OF ACOUSTICAL PANELS): NEGATIVE FOR ASBESTOS
 GREY CAULK (AROUND PERIMETER OF BLACK CHALKBOARD): NEGATIVE FOR ASBESTOS
 BEIGE/BROWN CAULK (ABOVE CEILING TILE): NEGATIVE FOR ASBESTOS
 BLACK PAINTED FIREPROOFING: NEGATIVE FOR ASBESTOS
 BLACK STAIR TREADS/MASTIC: NEGATIVE FOR ASBESTOS
 YELLOW FIRESTOP: NEGATIVE FOR ASBESTOS
 WHITE CAULK (ABOVE CEILING TILES: NEGATIVE FOR ASBESTOS
 LIQUID NAIL ADHESIVE: NEGATIVE FOR ASBESTOS
 NAVY BLUE COVEBASE/MASTIC: NEGATIVE FOR ASBESTOS
 GREY COVEBASE/MASTIC: NEGATIVE FOR ASBESTOS
 WOODEN DOORS: NON SUSPECT FOR ASBESTOS

LEAD SECTION:

BLACK PAINTED WALLS: NEGATIVE FOR LEAD
 LIGHT GRAY PAINTED WALLS: NEGATIVE FOR LEAD
 WHITE PAINTED WALLS: NEGATIVE FOR LEAD
 GREY PAINTED DOOR FRAME: NEGATIVE FOR LEAD
 BROWN PAINTED DOOR FRAME: NEGATIVE FOR LEAD
 BLACK PAINTED METAL DUCT WORK: NEGATIVE FOR LEAD
 BLACK PAINTED METAL PIPES: NEGATIVE FOR LEAD
 BLACK PAINTED CEILING GRID: NEGATIVE FOR LEAD
 BLACK PAINTED DOOR: NEGATIVE FOR LEAD

INSPECTORS NOTES:

1. THE BLACK HVAC DUCT MASTIC IS POSITIVE FOR ASBESTOS. PLEASE COORDINATE WITH USC ABATEMENT CREW FOR REMOVAL AND DISPOSAL.
2. THE BLACK PAINTED HVAC DUCT MASTIC (ON SHEET METAL DUCT- CLASSROOM 409) IS NEGATIVE FOR ASBESTOS.
3. ROOFING MATERIAL SAMPLED ON 3/15/18.
4. THE TRANSITE WINDOW PANELS (AND ASSOCIATED MASTIC AND CAULK) HAVE TESTED POSITIVE FOR ASBESTOS. CLIENT INDICATED THAT EXISTING TRANSITE PANELS WILL STAY IN PLACE AND WILL BE COVERED UP WITH A LAMINATE FINISH AND HELD IN PLACE WITH USE OF CAULK AND MASTIC. CLIENT HAS BEEN INFORMED VIA EMAIL THAT EXISTING TRANSITE WINDOW PANELS CANNOT BE DISTURBED.



5. BLACK CHALKBOARD ON EAST WALL (ON MAIN LEVEL IN CLASSROOM 409) IS A PLEXIGLASS MATERIAL WHICH IS NON-SUSPECT FOR ASBESTOS. DURING REMOVAL, IF ANY ADDITIONAL MASTICS AND/OR CAULKING MATERIAL IS FOUND, PLEASE STOP WORK AND CONTACT USC HAZMAT TO REASSESS.

17-JAN-18 HAZMAT SURVEY RESULTS

PART II

INSPECTORS NOTES (CONT.):

DURING INSPECTION, ONLY BARE METAL PIPES WERE OBSERVED. IF INSULATED PIPES ARE ENCOUNTERED THROUGHOUT DURATION OF WORK, PLEASE STOP WORK AND CONTACT USC HAZMAT TO REASSESS.

THERE MAY BE EXISTING MASTIC BEHIND ACOUSTICAL PANELS ON WEST WALL AND BEHIND BLACK CHALKBOARD ON EAST WALL. IF MATERIAL IS ENCOUNTERED THROUGHOUT DURATION OF WORK, PLEASE STOP WORK AND CONTACT USC HAZMAT TO REASSESS.

FLOORING OBSERVATIONS:

OFFICE 407 & 408: YELLOW CARPET MASTIC OVER CONCRETE

ROOMS 409E, 409B, 409F, 409 G, 409J, 409I, 409H, 409D, 409C, AND 409A: YELLOW CARPET MASTIC OVER CONCRETE

10-FEB-16 ASBESTOS SUMMARY FOR WILLIAM BRICE BUILDING (056) – FEBRUARY 2016

ASBESTOS HAS BEEN FOUND IN THIS BUILDING. IF DISTURBED, ASBESTOS MAY BE HARMFUL TO YOUR HEALTH.

PLEASE DO NOT DISTURB THE FOLLOWING MATERIALS IN THIS BUILDING AS THEY HAVE BEEN FOUND TO CONTAIN ASBESTOS.

- SHEET FLOORING
- BLACK MASTIC UNDER FLOORING
- TEXTURED WALL MATERIAL
- TEXTURED CEILING MATERIAL
- BLACK DUCT MASTIC
- OLIVE DUCT MASTIC
- BLACK MASTIC ON FIBERGLASS LINES
- PIPE INSULATION

IF A BUILDING MATERIAL IS NOT LISTED, DO NOT ASSUME THAT IT DOES NOT CONTAIN ASBESTOS. IT MAY NOT HAVE BEEN TESTED.

FOR FURTHER INFORMATION, PLEASE CONTACT THE USC HAZMAT PROGRAM.

| Reading No | Time | Type | Duration | Units | Sequence | Component | Substrate | Side | Condition | Color | Site | Inspector | Floor | Room | Misc 1 | Misc 2 | Res | Escale1 | EsclCT | Results | |
|------------|----------------|-------------|----------|------------|----------|------------|--------------|-------|-----------|------------|------------|-----------|-------|---------------|--------|--------|--------|---------|--------|---------|----------|
| 267 | 1/4/2018 9:08 | SHUTTER_CAL | 72.42 | cps | Final | | | | | | | | | | | | | | | | |
| 268 | 1/4/2018 9:17 | PAINT | 4.62 | mg / cm ^2 | Final | calibrate | | | | red | | | | | | | | 388.9 | 4.12 | 2.47 | |
| 269 | 1/4/2018 9:17 | PAINT | 10.01 | mg / cm ^2 | Final | calibrate | | | | red | | | | | | | | | | | Positive |
| 270 | 1/4/2018 9:18 | PAINT | 7.69 | mg / cm ^2 | Final | calibrate | | | | red | | | | | | | | | | | Positive |
| 271 | 1/4/2018 11:18 | PAINT | 14.55 | mg / cm ^2 | Final | COLUMN | CONCRETE | ne | good | grey | wbn simone | | 4 | 409 classroom | | | | | | | Positive |
| 272 | 1/4/2018 11:19 | PAINT | 10.37 | mg / cm ^2 | Final | COLUMN | CONCRETE | ne | good | grey | wbn simone | | 4 | 409 classroom | | | | | | | Negative |
| 273 | 1/4/2018 11:22 | PAINT | 6.5 | mg / cm ^2 | Final | WALL | sheetrock | ne | good | grey | wbn simone | | 4 | 409 classroom | | | | | | | Negative |
| 274 | 1/4/2018 11:25 | PAINT | 3.09 | mg / cm ^2 | Final | ductwork | METAL | ne | good | black | wbn simone | | 4 | 409 classroom | | | | | | | Negative |
| 275 | 1/4/2018 11:25 | PAINT | 4.26 | mg / cm ^2 | Final | ductwork | METAL | ne | good | black | wbn simone | | 4 | 409 classroom | | | | | | | Negative |
| 276 | 1/4/2018 11:26 | PAINT | 5.78 | mg / cm ^2 | Final | ductwork | METAL | ne | good | black | wbn simone | | 4 | 409 classroom | | | | | | | Negative |
| 277 | 1/4/2018 11:26 | PAINT | 9.58 | mg / cm ^2 | Final | ductwork | METAL | ne | good | black | wbn simone | | 4 | 409 classroom | | | | | | | Negative |
| 278 | 1/4/2018 11:56 | PAINT | 4.23 | mg / cm ^2 | Final | PIPES | METAL | ne | good | black | wbn simone | | 4 | 409 classroom | | | | | | | Negative |
| 279 | 1/4/2018 12:00 | PAINT | 4.23 | mg / cm ^2 | Final | DOOR FRAME | METAL | S | good | GREY | wbn simone | | 4 | office 407 | | | | | | | Negative |
| 280 | 1/4/2018 12:13 | PAINT | 6.87 | mg / cm ^2 | Final | WALL | sheetrock | S | good | white | wbn simone | | 4 | 409e storage | | | | | | | Negative |
| 281 | 1/4/2018 12:14 | PAINT | 4.23 | mg / cm ^2 | Final | wood | wood | S | good | grey | wbn simone | | 4 | 409e storage | | | | | | | Negative |
| 282 | 1/4/2018 12:26 | PAINT | 5.38 | mg / cm ^2 | Final | WALL | DRYWALL | S | good | white | wbn simone | | 4 | 409e storage | | | | | | | Negative |
| 283 | 1/4/2018 12:27 | PAINT | 6.51 | mg / cm ^2 | Final | WALL | DRYWALL | S | good | white | wbn simone | | 4 | 408 | | | | | | | Negative |
| 284 | 1/4/2018 12:28 | PAINT | 6.91 | mg / cm ^2 | Final | WALL | DRYWALL | S | good | white | wbn simone | | 4 | 407 | | | | | | | Negative |
| 285 | 1/4/2018 12:39 | PAINT | 4.22 | mg / cm ^2 | Final | door fra | metal | S | good | brown | wbn simone | | 4 | 407 | | | | | | | Negative |
| 286 | 1/4/2018 12:40 | PAINT | 9.54 | mg / cm ^2 | Final | door frame | metal | S | good | brown | wbn simone | | 4 | 408 | | | | | | | Negative |
| 287 | 1/8/2018 12:00 | SHUTTER_CAL | 74.47 | cps | Final | | | | | | | | | | | | | | | | Negative |
| 288 | 1/8/2018 12:02 | PAINT | 5.32 | mg / cm ^2 | Final | WALL | sheetrock | east | good | light gray | wbn | | 4 | 409c | | | 395.49 | 4.12 | 2.46 | | Negative |
| 289 | 1/8/2018 12:02 | PAINT | 4.93 | mg / cm ^2 | Final | WALL | sheetrock | east | good | light gray | wbn | | 4 | 409c | | | | | | | Negative |
| 290 | 1/8/2018 12:03 | PAINT | 6.47 | mg / cm ^2 | Final | WALL | sheetrock | south | good | black | wbn | | 4 | 409d | | | | | | | Negative |
| 291 | 1/8/2018 12:05 | PAINT | 2.66 | mg / cm ^2 | Final | CEILING | ceiling tile | south | good | black | wbn | | 4 | 409d | | | | | | | Negative |
| 292 | 1/8/2018 12:05 | PAINT | 4.96 | mg / cm ^2 | Final | CEILING | ceiling tile | south | good | black | wbn | | 4 | 409d | | | | | | | Negative |
| 293 | 1/8/2018 12:06 | PAINT | 4.96 | mg / cm ^2 | Final | CEILING | ceiling grid | south | good | black | wbn | | 4 | 409d | | | | | | | Negative |
| 294 | 1/8/2018 12:07 | PAINT | 12.24 | mg / cm ^2 | Final | DOOR | WOOD | south | good | black | wbn | | 4 | 409d | | | | | | | Negative |
| 295 | 1/8/2018 12:08 | PAINT | 4.57 | mg / cm ^2 | Final | DOOR frame | WOOD | south | good | gray | wbn | | 4 | 409c | | | | | | | Negative |



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284
Tel/Fax: (336) 992-1025 / (336) 992-4175
http://www.EMSL.com / greensborolab@emsl.com

EMSL Order: 021802168
Customer ID: UNSC62
Customer PO: 2000036047
Project ID:

Attention: USC Hazmat
University of South Carolina
743 Greene Street
Columbia, SC 29208
Phone: (803) 777-7000
Fax: (803) 777-3990
Received Date: 03/27/2018 9:30 AM
Analysis Date: 03/27/2018
Collected Date: 03/26/2018
Project: 56 William Brice Building Nursing

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

| Sample ID | Description | Appearance | % Matrix Material | % Non-Asbestos Fibers | Asbestos Types |
|---------------------|---------------------------------|--|-------------------|-----------------------|----------------------|
| 3 021802168-0003 | Black Painted Olive Duct Mastic | Gray/Black Non-Fibrous Homogeneous | 100 | None | No Asbestos Detected |
| 6 021802168-0006 | Black Painted Beige Duct Mastic | Tan/Black Non-Fibrous Homogeneous | 100 | None | No Asbestos Detected |

Analyst(s)

Stephen Bennett (2)

Stephen Bennett, Laboratory Manager
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 03/27/2018 14:49:39

Printed 3/27/2018 2:49:43PM



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284
Tel/Fax: (336) 992-1025 / (336) 992-4175
http://www.EMSL.com / greensborolab@emsl.com

EMSL Order: 021801863
Customer ID: UNSC62
Customer PO: 2000036047
Project ID:

Attention: USC Hazmat
University of South Carolina
743 Greene Street
Columbia, SC 29208
Phone: (803) 777-7000
Fax: (803) 777-3990
Received Date: 03/16/2018 9:00 AM
Analysis Date: 03/17/2018
Collected Date: 03/15/2018
Project: 56 William Brice Building Nursing

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

| Sample ID | Description | Appearance | % Matrix Material | % Non-Asbestos Fibers | Asbestos Types |
|-------------------------------------|-------------|--------------------------------------|-------------------|-----------------------|----------------------|
| 1-Rubber Membrane 021801863-0001 | Roofing | Gray/White Fibrous Homogeneous | 100 | None | No Asbestos Detected |
| 1-Felt 1 021801863-0001B | Roofing | Black Fibrous Homogeneous | 100 | None | No Asbestos Detected |
| 1-Felt 2 021801863-0001C | Roofing | Black Fibrous Homogeneous | 100 | None | No Asbestos Detected |

Analyst(s)

Nicole Shutts (3)

Stephen Bennett

Stephen Bennett, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 03/19/2018 09:01:12



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284
Tel/Fax: (336) 992-1025 / (336) 992-4175
http://www.EMSL.com / greensborolab@emsl.com

EMSL Order: 021800149
Customer ID: UNSC62
Customer PO: 2000036047
Project ID:

Attention: USC Hazmat
University of South Carolina
743 Greene Street
Columbia, SC 29208
Project: William Brice Nursing 056
Phone: (803) 777-7000
Fax: (803) 777-3990
Received Date: 01/09/2018 9:30 AM
Analysis Date: 01/10/2018
Collected Date: 01/08/2018

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

| Sample ID | Description | Appearance | % Matrix Material | % Non-Asbestos Fibers | Asbestos Types |
|----------------------------------|------------------------------|------------------------------------|-------------------|-----------------------|----------------------|
| 3 021800149-0003 | Beige Caulk | Tan Fibrous Heterogeneous | 100 | None | No Asbestos Detected |
| 6 021800149-0006 | Black Caulk | Black Fibrous Heterogeneous | 100 | None | No Asbestos Detected |
| 9 021800149-0009 | Black HVAC Duct Mastic | Black Fibrous Heterogeneous | 100 | None | No Asbestos Detected |
| 15 021800149-0015 | Grey Caulk | Gray Fibrous Heterogeneous | 100 | None | No Asbestos Detected |
| 18 021800149-0018 | Beige/Brown Caulk | Tan Fibrous Heterogeneous | 100 | None | No Asbestos Detected |
| 26 021800149-0026 | Grey Caulk | Gray Fibrous Heterogeneous | 100 | None | No Asbestos Detected |
| 32-Stair Tread 021800149-0032 | Black Stair Tread/Mastic | Black Fibrous Heterogeneous | 100 | None | No Asbestos Detected |
| 32-Mastic 021800149-0032A | Black Stair Tread/Mastic | Tan Fibrous Heterogeneous | 100 | None | No Asbestos Detected |
| 35 021800149-0035 | Yellow Firestop | Yellow Fibrous Heterogeneous | 100 | None | No Asbestos Detected |
| 38 021800149-0038 | White Caulk | White Fibrous Heterogeneous | 100 | None | No Asbestos Detected |
| 41-Mastic 021800149-0041A | Navy Blue Covebase/Mastic | Beige Fibrous Heterogeneous | 100 | None | No Asbestos Detected |
| 42-Cove Base 021800149-0042 | Grey Covebase/Mastic | Gray Fibrous Heterogeneous | 100 | None | No Asbestos Detected |

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 01/10/2018 17:25:14



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284
Tel/Fax: (336) 992-1025 / (336) 992-4175
http://www.EMSL.com / greensborolab@emsl.com

EMSL Order: 021800149
Customer ID: UNSC62
Customer PO: 2000036047
Project ID:

Attention: USC Hazmat
University of South Carolina
743 Greene Street
Columbia, SC 29208
Phone: (803) 777-7000
Fax: (803) 777-3990
Received Date: 01/09/2018 9:30 AM
Analysis Date: 01/10/2018
Collected Date: 01/08/2018
Project: William Brice Nursing 056

**Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via
EPA/600/R-93/116 Section 2.5.5.1**

| Sample ID | Description | Appearance | % Matrix Material | % Non-Asbestos Fibers | Asbestos Types |
|--------------------------------|----------------------|-----------------------------------|-------------------|-----------------------|----------------------|
| 44-Cove Base 021800149-0044 | Grey Covebase/Mastic | Gray Fibrous Heterogeneous | 100 | None | No Asbestos Detected |
| 44-Mastic 021800149-0044A | Grey Covebase/Mastic | Beige Fibrous Heterogeneous | 100 | None | No Asbestos Detected |

Analyst(s)

Stephen Bennett (14)

Stephen Bennett, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 01/10/2018 17:25:14



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284
Tel/Fax: (336) 992-1025 / (336) 992-4175
http://www.EMSL.com / greensborolab@emsl.com

EMSL Order: 021802134
Customer ID: UNSC62
Customer PO: 2000036047
Project ID:


Attention: USC Hazmat
University of South Carolina
743 Greene Street
Columbia, SC 29208
Phone: (803) 777-7000
Fax: (803) 777-3990
Received Date: 03/26/2018 9:00 AM
Analysis Date: 03/26/2018
Collected Date: 03/22/2018
Project: 56 William Brice Nursing

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

| Sample | Description | Appearance | Non-Asbestos | | Asbestos % Type |
|---------------------|--------------|-------------------------------------|----------------------------|--------------------------|-----------------|
| | | | % Fibrous | % Non-Fibrous | |
| 1 021802134-0001 | White Mastic | White Non-Fibrous Homogeneous | <1% Cellulose <1% Glass | 100% Non-fibrous (Other) | None Detected |
| 2 021802134-0002 | White Mastic | White Non-Fibrous Homogeneous | <1% Cellulose <1% Glass | 100% Non-fibrous (Other) | None Detected |
| 3 021802134-0003 | White Mastic | White Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |

Analyst(s)

James Cole (1)
Scott Combs (2)


Stephen Bennett, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from: 03/26/2018 15:27:34



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284

Tel/Fax: (336) 992-1025 / (336) 992-4175

http://www.EMSL.com / greensborolab@emsl.com

EMSL Order: 021801863

Customer ID: UNSC62

Customer PO: 2000036047

Project ID:

Attention: USC Hazmat

University of South Carolina

743 Greene Street

Columbia, SC 29208

Phone: (803) 777-7000

Fax: (803) 777-3990

Received Date: 03/16/2018 9:00 AM

Analysis Date: 03/16/2018 - 03/17/2018

Collected Date: 03/15/2018

Project: 56 William Brice Building Nursing

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

| Sample | Description | Appearance | Non-Asbestos | | Asbestos % Type |
|--|-------------|--|---------------------------|--------------------------|--------------------|
| | | | % Fibrous | % Non-Fibrous | |
| 1-Rubber Membrane 021801863-0001 | Roofing | Gray/White Fibrous Homogeneous | 20% Synthetic | 80% Non-fibrous (Other) | None Detected |
| 1-Gray Insulation 021801863-0001A | Roofing | Gray Fibrous Homogeneous | 6% Glass | 94% Non-fibrous (Other) | None Detected |
| 1-Felt 1 021801863-0001B | Roofing | Black Fibrous Homogeneous | 70% Cellulose | 30% Non-fibrous (Other) | None Detected |
| 1-Felt 2 021801863-0001C | Roofing | Yellow Fibrous Homogeneous | 85% Cellulose 3% Glass | 12% Non-fibrous (Other) | None Detected |
| 1-Yellow Insulation 021801863-0001D | Roofing | Yellow Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2-Membrane 021801863-0002 | Roofing | Gray/White Fibrous Homogeneous | 20% Synthetic | 80% Non-fibrous (Other) | None Detected |
| 2-Felt 1 021801863-0002A | Roofing | Black Fibrous Homogeneous | 70% Cellulose | 30% Non-fibrous (Other) | None Detected |
| 2-Felt 2 021801863-0002B | Roofing | Gray Fibrous Homogeneous | 80% Cellulose 3% Glass | 17% Non-fibrous (Other) | None Detected |
| 2-Yellow Insulation 021801863-0002C | Roofing | Yellow Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 3-Rubber Membrane 021801863-0003 | Roofing | Gray/White Fibrous Heterogeneous | 20% Synthetic | 80% Non-fibrous (Other) | None Detected |
| 3-Felt 1 021801863-0003A | Roofing | Black Fibrous Homogeneous | 70% Cellulose | 30% Non-fibrous (Other) | None Detected |
| 3-Felt 2 021801863-0003B | Roofing | Gray Fibrous Homogeneous | 75% Cellulose 5% Glass | 20% Non-fibrous (Other) | None Detected |
| 3-Yellow Insulation 021801863-0003C | Roofing | Yellow Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |

Initial report from: 03/19/2018 08:40:45



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284

Tel/Fax: (336) 992-1025 / (336) 992-4175

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

EMSL Order: 021801863

Customer ID: UNSC62

Customer PO: 2000036047

Project ID:

Analyst(s)

Kristie Elliott (9)

Nicole Shutts (4)

Stephen Bennett, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from: 03/19/2018 08:40:45



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284
Tel/Fax: (336) 992-1025 / (336) 992-4175
http://www.EMSL.com / greensborolab@emsl.com

EMSL Order: 021802168
Customer ID: UNSC62
Customer PO: 2000036047
Project ID:

Attention: USC Hazmat
University of South Carolina
743 Greene Street
Columbia, SC 29208

Phone: (803) 777-7000
Fax: (803) 777-3990
Received Date: 03/27/2018 9:30 AM
Analysis Date: 03/27/2018
Collected Date: 03/26/2018

Project: 56 William Brice Building Nursing

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

| Sample | Description | Appearance | Non-Asbestos | | Asbestos % Type |
|---------------------|---------------------------------|--|---------------|--|--------------------|
| | | | % Fibrous | % Non-Fibrous | |
| 1 021802168-0001 | Black Painted Olive Duct Mastic | Gray/Tan/Black Non-Fibrous Heterogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 2 021802168-0002 | Black Painted Olive Duct Mastic | Gray/Tan/Black Non-Fibrous Heterogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 3 021802168-0003 | Black Painted Olive Duct Mastic | Gray/Black Non-Fibrous Homogeneous | <1% Cellulose | 5% Ca Carbonate 95% Non-fibrous (Other) | None Detected |
| 4 021802168-0004 | Black Painted Beige Duct Mastic | Tan/Black/Silver Non-Fibrous Heterogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 5 021802168-0005 | Black Painted Beige Duct Mastic | Tan/Black/Silver Non-Fibrous Heterogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 6 021802168-0006 | Black Painted Beige Duct Mastic | Tan/Black Non-Fibrous Homogeneous | <1% Cellulose | 5% Ca Carbonate 95% Non-fibrous (Other) | None Detected |

Analyst(s)

Nicole Shutts (2)
Scott Combs (4)

Stephen Bennett, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from: 03/27/2018 10:39:18



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706 Gralin Street Kernersville, NC 27284
Tel/Fax: (336) 992-1025 / (336) 992-4175
http://www.EMSL.com / greensboro@emsl.com

EMSL Order: 021800149
Customer ID: UNSC62
Customer PO: 2000036047
Project ID:

Attention: USC Hazmat
University of South Carolina
743 Greene Street
Columbia, SC 29208
Project: William Brice Nursing 056
Phone: (803) 777-7000
Fax: (803) 777-3990
Received Date: 01/09/2018 9:30 AM
Analysis Date: 01/09/2018 - 01/10/2018
Collected Date: 01/08/2018

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

| Sample | Description | Appearance | Non-Asbestos | | Asbestos % Type |
|----------------------|------------------------|--|--------------------------------|--|-----------------|
| | | | % Fibrous | % Non-Fibrous | |
| 1 021800149-0001 | Beige Caulk | Tan/Silver Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 2 021800149-0002 | Beige Caulk | Tan/Silver Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 3 021800149-0003 | Beige Caulk | Tan Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 4 021800149-0004 | Black Caulk | Gray/Black Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 5 021800149-0005 | Black Caulk | Gray/Black Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 6 021800149-0006 | Black Caulk | Black Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 7 021800149-0007 | Black HVAC Duct Mastic | Tan/Black Non-Fibrous Heterogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 8 021800149-0008 | Black HVAC Duct Mastic | Tan/Black/Silver Non-Fibrous Heterogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 9 021800149-0009 | Black HVAC Duct Mastic | Black Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 10 021800149-0010 | Wall Material | Gray/White Fibrous Homogeneous | 60% Cellulose 20% Min. Wool | 10% Perlite 10% Non-fibrous (Other) | None Detected |
| 11 021800149-0011 | Wall Material | Gray/White Fibrous Homogeneous | 60% Cellulose 20% Min. Wool | 10% Perlite 10% Non-fibrous (Other) | None Detected |
| 12 021800149-0012 | Wall Material | Gray/White Fibrous Heterogeneous | 60% Cellulose 15% Min. Wool | 20% Perlite 5% Non-fibrous (Other) | None Detected |
| 13 021800149-0013 | Grey Caulk | Gray Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 14 021800149-0014 | Grey Caulk | Gray Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 15 021800149-0015 | Grey Caulk | Gray Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 16 021800149-0016 | Beige/Brown Caulk | Tan/Gold Non-Fibrous Homogeneous | <1% Cellulose <1% Glass | 100% Non-fibrous (Other) | None Detected |

Initial report from: 01/10/2018 08:33:46



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706 Gralin Street Kernersville, NC 27284
Tel/Fax: (336) 992-1025 / (336) 992-4175
http://www.EMSL.com / greensborolab@emsl.com

EMSL Order: 021800149
Customer ID: UNSC62
Customer PO: 2000036047
Project ID:

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 |
| 17 021800149-0017 | Beige/Brown Caulk | Tan/Gold Non-Fibrous Homogeneous | <1% Cellulose <1% Glass | 100% Non-fibrous (Other) | None Detected |
| 18 021800149-0018 | Beige/Brown Caulk | Tan Non-Fibrous Homogeneous | <1% Cellulose <1% Glass | 100% Non-fibrous (Other) | None Detected |
| 19 021800149-0019 | Black Painted Fire Proofing | Gray/White Fibrous Homogeneous | <1% Cellulose 98% Glass | 2% Non-fibrous (Other) | None Detected |
| 20 021800149-0020 | Black Painted Fire Proofing | Gray/White/Black Fibrous Heterogeneous | <1% Cellulose 85% Glass | 15% Non-fibrous (Other) | None Detected |
| 21 021800149-0021 | Black Painted Fire Proofing | Gray/Black Fibrous Heterogeneous | <1% Cellulose 98% Min. Wool | 2% Non-fibrous (Other) | None Detected |
| 22 021800149-0022 | Black Painted Fire Proofing | Gray/White/Black Fibrous Heterogeneous | <1% Cellulose 80% Glass | 20% Non-fibrous (Other) | None Detected |
| 23 021800149-0023 | Black Painted Fire Proofing | Gray/White/Black Fibrous Heterogeneous | <1% Cellulose 90% Glass | 10% Non-fibrous (Other) | None Detected |
| 24 021800149-0024 | Grey Caulk | Gray Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 25 021800149-0025 | Grey Caulk | Gray Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 26 021800149-0026 | Grey Caulk | Gray Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 27 021800149-0027 | Black HVAC Duct Mastic | Black Fibrous Homogeneous | 1% Cellulose 5% Glass | 84% Non-fibrous (Other) | 10% Chrysotile |
| 28 021800149-0028 | Black HVAC Duct Mastic | | | | Positive Stop (Not Analyzed) |
| 29 021800149-0029 | Black HVAC Duct Mastic | | | | Positive Stop (Not Analyzed) |
| 30-Stair Tread 021800149-0030 | Black Stair Tread/Mastic | Black Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 30-Mastic 021800149-0030A | Black Stair Tread/Mastic | Yellow Non-Fibrous Homogeneous | <1% Cellulose 3% Synthetic | 97% Non-fibrous (Other) | None Detected |
| 31-Stair Tread 021800149-0031 | Black Stair Tread/Mastic | Black Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 31-Mastic 021800149-0031A | Black Stair Tread/Mastic | Yellow Non-Fibrous Homogeneous | <1% Cellulose 2% Synthetic | 98% Non-fibrous (Other) | None Detected |
| 32-Stair Tread 021800149-0032 | Black Stair Tread/Mastic | Black Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 32-Mastic 021800149-0032A | Black Stair Tread/Mastic | Tan Non-Fibrous Homogeneous | <1% Cellulose 1% Synthetic | 99% Non-fibrous (Other) | None Detected |

Initial report from: 01/10/2018 08:33:46



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706 Grain Street Kernersville, NC 27284
Tel/Fax: (336) 992-1025 / (336) 992-4175
http://www.EMSL.com / greensborolab@emsl.com

EMSL Order: 021800149
Customer ID: UNSC62
Customer PO: 2000036047
Project ID:

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 |
| 33 021800149-0033 | Yellow Firestop | Yellow Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 34 021800149-0034 | Yellow Firestop | Yellow Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 35 021800149-0035 | Yellow Firestop | Yellow Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 36 021800149-0036 | White Caulk | White/Beige Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 37 021800149-0037 | White Caulk | White/Beige Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 38 021800149-0038 | White Caulk | White Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 39-Cove Base 021800149-0039 | Navy Blue Covebase/Mastic | Blue Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 39-Mastic 021800149-0039A | Navy Blue Covebase/Mastic | Brown/Yellow/Beige Non-Fibrous Heterogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 40-Cove Base 021800149-0040 | Navy Blue Covebase/Mastic | Blue Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 40-Mastic 021800149-0040A | Navy Blue Covebase/Mastic | Brown/Yellow/Beige Non-Fibrous Heterogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 41-Cove Base 021800149-0041 | Navy Blue Covebase/Mastic | Blue Non-Fibrous Heterogeneous | | 100% Non-fibrous (Other) | None Detected |
| 41-Mastic 021800149-0041A | Navy Blue Covebase/Mastic | Beige Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 42-Cove Base 021800149-0042 | Grey Covebase/Mastic | Gray Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 42-Mastic 021800149-0042A | Grey Covebase/Mastic | Yellow Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 43-Cove Base 021800149-0043 | Grey Covebase/Mastic | Gray Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 43-Mastic 021800149-0043A | Grey Covebase/Mastic | Yellow Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |
| 44-Cove Base 021800149-0044 | Grey Covebase/Mastic | Gray Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 44-Mastic 021800149-0044A | Grey Covebase/Mastic | Beige Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (Other) | None Detected |

Initial report from: 01/10/2018 08:33:46



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284

Tel/Fax: (336) 992-1025 / (336) 992-4175

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

EMSL Order: 021800149

Customer ID: UNSC62

Customer PO: 2000036047

Project ID:

Analyst(s)

Stephen Bennett (16)

Scott Combs (35)

Stephen Bennett, Laboratory Manager
or Other Approved Signatory

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Initial report from: 01/10/2018 08:33:46