



# Engineering LLC

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## **PRE-RENOVATION ASBESTOS ASSESSMENT**

**TOWN OF BLUFFTON THEODORE D. WASHINGTON  
MUNICIPAL BUILDING  
20 BRIDGE STREET  
BLUFFTON, SOUTH CAROLINA 29910**

Submitted to:  
Town of Bluffton  
20 Bridge Street  
Bluffton, South Carolina 29910  
Office Phone: 843-247-1450

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Date Asbestos Assessment Performed: September 3-4, 2015

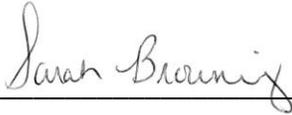
Date of Report: October 2, 2015

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### Signature Page

This document entitled, "Pre-Renovation Asbestos Assessment," has been prepared and reviewed by the undersigned at the request of and for the exclusive use of The Town of Bluffton located in Bluffton, South Carolina. It has been prepared in accordance with the South Carolina Department of Health and Environmental Control (SCDHEC) asbestos regulation.



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Sarah Browning, E.I.T.  
Project Manager



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Ronald S. Sharpe, C.I.H.  
Senior Scientist

**EXECUTIVE SUMMARY**

The pre-renovation asbestos assessment was conducted on September 3-4, 2015 of the Town of Bluffton Theodore D. Washington Municipal Building located at 20 Bridge Street in Bluffton, South Carolina.

The following table provides a summary of the Asbestos-Containing Materials (ACMs) and the Presumed ACMs (PACMs) that were identified in the pre-renovation asbestos assessment. A diagram showing the locations of the Room numbers in the building is attached in Appendix 4.2.

<b>Description of ACM(s) and/or PACM(s)</b>	<b>Location</b>	<b>Approximate Quantity<sup>(1)</sup></b>
Black Mastic Associated with 12"x12" Yellow Floor Tile <sup>(2)</sup>	2 <sup>nd</sup> Layer Flooring in Room 10	50 SF
12"x12" Blue Floor Tile and Associated Black Mastic	Rooms 4, 10 and 11, and Hallway Outside Room 11	1,880 SF
12"x12" Green Floor Tile and Associated Black Mastic	2 <sup>nd</sup> Layer Underneath 12"x12" Blue Floor Tile and Associated Mastic in Rooms 10 and 11 and Hallway Outside Room 11	1,120 SF
"Textured" Ceiling Material: Base (PACM) and Skim Coat Layers	Above Suspended Ceiling Tile System in Hallway Outside of Room 10 and 11	740 SF
Yellow Surface Mastic and (over) 12"x12" White with Cream Streaks Floor Tile and Associated Black Mastic	Foyer Outside of Room 12 (Restroom)	80 SF
Green Floor Tile and Associated Black Mastic	Underneath Carpet in Rooms 5 and 6	650 SF
White Mastic	On Ends of Fibrous Glass Insulated Fittings on AHU piping in Room 23 (Mechanical Room)	6 Fittings
Cream Floor Tile and Associated Black Mastic	2 <sup>nd</sup> Layer in Room 26 (Auditorium)	2,115 SF
Cream Floor Tile and Associated Black Mastic	2 <sup>nd</sup> Layer in Rooms 27, 28, 29, 30, 32, 33, 34, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57 and 59	6,775 SF

Description of ACM(s) and/or PACM(s)	Location	Approximate Quantity <sup>(1)</sup>
PACM - 9"x9" Cream or Pink Floor Tile and Associated Mastic	Rooms 15, 17, 18, 19, 20, 21, 22 and 24, Restrooms in Rooms 15 and 17, and Closets in Rooms 18 and 21	4,915 SF
PACM - Auditorium Stage Curtain	Room 26 (Auditorium)	1 Curtain
PACM - Roof Flashing	Around Penetrations on Roof	4 Penetrations

**Notes:**

**SF - Square Feet**

**LF - Linear Feet**

- (1) These material quantities are approximate, and must be confirmed by contractor.**
- (2) This material is layered with a non-ACM; however, because the ACM cannot be separated from the non-ACM, they should both be handled and disposed of as ACMs.**

# **PRE-RENOVATION ASBESTOS ASSESSMENT**

## **TOWN OF BLUFFTON THEODORE D. WASHINGTON MUNICIPAL BUILDING 20 BRIDGE STREET BLUFFTON, SOUTH CAROLINA**

### **1.0 Introduction**

The Town of Bluffton requested that GEL Engineering, LLC (GEL) perform a pre-renovation asbestos assessment of the Town of Bluffton Theodore D. Washington Municipal Building located at 20 Bridge Street in Bluffton, South Carolina.

Ms. Sarah Browning, E.I.T. and a licensed asbestos inspector in the State of South Carolina from GEL, performed the pre-renovation asbestos assessment on September 3-4, 2015. Her asbestos license and training certificate are included in Appendix 4.4.

The above referenced building is a one-story, structural steel-framed structure with a brick façade, exterior metal clad windows, and a pitched, corrugated metal roof. There was no caulking material observed on the aforementioned metal clad windows. GEL was informed that the original construction included a flat, asphalt built-up roof, which has now been covered by the pitched corrugated metal roof. The aforementioned original flat built-up roof consists of the following layers, from the interior to the exterior (exposed) layers: a corrugated metal roof deck; a layer of expandable foam; and a top layer of a bituminous waterproofing compound. GEL was able to enter the void space between the flat and pitched roofs in order to collect samples from the original roof. The aforementioned void space also houses the Heating, Ventilation, and Air-Conditioning (HVAC) units that service the building. During GEL's asbestos assessment, the penetrations on the pitched corrugated metal roof were not accessed due to safety concerns.

The interior flooring systems consist of various materials over a poured concrete sub-floor. Please see Table 1 in Appendix 4.1 for the description and location of each type of flooring material inside the building.

The interior wall systems consist of either a Concrete Masonry Unit (CMU) system, or a gypsum board system consisting of two layers: a drywall layer and a joint compound layer. Vinyl toe boards with associated mastic were observed along the periphery of various wall systems throughout the building.

The ceiling systems consist of either a suspended ceiling tile system (a suspended metal grid with lay-in ceiling tiles), or a gypsum board system consisting of two layers: a drywall layer and a joint compound layer. GEL observed a textured ceiling material

(consisting of two layers: a skim and base coat layers) above the suspended ceiling tile system in the hallway outside of Rooms 10 and 11. No fireproofing was observed on the structural steel members and/or the corrugated metal sub-roof. Aluminum foil-faced, fibrous glass-insulated flexible and/or rectangular metal ventilation ductwork were also observed above the suspended ceiling tile system. GEL observed either non-suspect, asbestos-containing aluminum duct tape or small amounts of white mastic on the seams of the ventilation ductwork. Brown, paper-faced fibrous glass-insulated metal piping was observed above the suspended ceiling tile system in various locations inside the building.

Insulation on the piping (both straight runs and pipe elbows) in the mechanical room (Room 23) consists of either white, paper-faced fibrous glass-insulated metal piping; or white canvas wrapped fibrous glass-insulated piping. White mastic was observed on the ends of the white canvas wrapped fibrous glass insulated pipe fittings.

## **2.0 Pre-Renovation Asbestos Assessment**

### **2.1 Asbestos Investigative Procedures**

The pre-renovation asbestos assessment was performed by observing and sampling suspect ACMs in the Town of Bluffton Theodore D. Washington Municipal Building.

Although reasonable effort was made to sample all suspect ACMs in the aforementioned building, there is a potential that some areas of suspect ACMs introduced into the building by undocumented renovations, and/or repairs may not have been detected. If additional suspect ACMs are identified during renovation and/or demolition activities, all work should cease until the suspect ACM(s) is/are sampled by a licensed asbestos inspector and laboratory analysis results have been reviewed.

Representative samples were collected from a variety of suspect ACMs. These samples were recorded on a Chain-of-Custody record and submitted to CEI Labs, Inc. (CEI) in Cary, North Carolina for analysis. CEI is accredited with the National Voluntary Laboratory Accreditation Program (NVLAP) administered by the National Institute of Standards and Technology (NIST).

The bulk samples of suspect material were analyzed utilizing Polarized Light Microscopy (PLM) coupled with dispersion staining and/or Transmission Electron Microscopy (TEM). A 'positive stop' analysis was requested by GEL for the samples collected. Positive stop means that once the laboratory detects asbestos in a group of homogeneous samples of a specific material (and the material is identified as an ACM), further analysis of the other samples in the homogeneous group is not performed by the laboratory. The EPA recognizes a material as ACM if an asbestos content of greater than one percent by weight (> 1%) is detected in a representative sample.

## **2.2 Homogeneous Area Summary**

The suspect ACMs were grouped into homogeneous areas. A homogeneous area is an area that contains suspect ACM that is uniform in color, texture, and appears identical in every respect. Also, each sample was determined to be either friable or non-friable. A friable material is one that, when dry, can be crumbled, pulverized, or reduced to powder by the forces expected to act upon it in the course of demolition or renovation. Non-friable materials are not expected to be crumbled, pulverized, or reduced to powder by the forces expected during demolition or renovation. Additionally, non-friable materials are those materials in which fibers have been “locked in” by a bonding agent, coating, binder, or other material so that the asbestos is bound and will not readily release fibers during normal handling or use. However, non-friable materials may become friable if improperly used or handled.

## **2.3 Limited Asbestos, Pre-Demolition Assessment Results**

The location, description, and condition of the suspect ACMs sampled are included in Appendix 4.1, Table 1 for the PLM and TEM analyses. The Chain-of-Custody records and Certificates of Analysis are included in Appendix 4.3.

## **2.4 Conclusions and Recommendations**

Please see the executive summary above.

If additional suspect ACM(s) are identified during future repair, renovation, and/or demolition activities, all work should cease until the materials are sampled by a licensed asbestos inspector and laboratory results reviewed. Any ACM(s) identified should be handled in accordance with the applicable Occupational Safety & Health Administration (OSHA), South Carolina Department of Health & Environmental Control (DHEC), and United States Environmental Protection Agency (EPA) asbestos regulations.

## **3.0 Deviations or Limiting Conditions**

1. There were several areas of the building where the flooring system consists of carpet and associated mastic over other flooring materials, or a poured concrete sub-floor. GEL performed representative visual assessment and sampling of the aforementioned carpet and mastics; however, the carpet and associated mastics were not removed in their entirety in each room. If additional suspect ACMs are encountered during future renovation or demolition activities, all work should cease until the material(s) is/are sampled by a licensed asbestos building inspector and the laboratory results are reviewed.
2. GEL did not have access to Room 58. If additional suspect ACMs are encountered during future renovation or demolition activities, all work should cease until the material(s) is/are sampled by a licensed asbestos building inspector and the laboratory results are reviewed.

3. GEL did not perform significant destructive testing of the CMU wall systems or exterior brick façade due to the building being occupied at the time of our assessment. If future demolition or renovation is planned for these systems, a licensed asbestos building inspector should inspect the systems, and materials sampled and analyzed for asbestos concentrations prior to any work being performed.

**APPENDIX 4.1**

**TABLE 1: ASBESTOS RESULTS PLM AND TEM ANALYSIS**

**TABLE 1**  
**ASBESTOS RESULTS - PLM AND TEM ANALYSIS**  
**TOWN OF BLUFFTON THEODORE D. WASHINGTON MUNICIPAL BUILDING**  
**20 BRIDGE STREET**  
**BLUFFTON, SOUTH CAROLINA 29910**  
**MATERIALS SAMPLED ON SEPTEMBER 3-4, 2015**

Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description	Sample Location	Type of Material	Total Amount	Type and % Asbestos	Condition
RM 1-1-A	1	Built Up Roofing - Tar Layer	Original Roof Underneath Corrugated Metal Roof	East Side of Roof	M	26,250 SF	ND	NA
RM 1-1-B		Built Up Roofing - Insulation Layer	Original Roof Underneath Corrugated Metal Roof	East Side of Roof	M		ND	NA
RM 1-2-A		Built Up Roofing - Tar Layer	Original Roof Underneath Corrugated Metal Roof	West Side of Roof	M		ND	NA
RM 1-2-B		Built Up Roofing - Insulation Layer	Original Roof Underneath Corrugated Metal Roof	West Side of Roof	M		ND	NA
RM 1-3-A*		Built Up Roofing - Tar Layer	Original Roof Underneath Corrugated Metal Roof	South Side of Roof	M		ND	NA
RM 1-3-B		Built Up Roofing - Insulation Layer	Original Roof Underneath Corrugated Metal Roof	South Side of Roof	M		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description	Sample Location	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 2-4-A	2	12"x12" Yellow Floor Tile with Associated Yellow Mastic- <i>Floor Tile Only</i>	Small Area in Room #10	Room 10	M	50 SF	ND	NA
FT 2-4-B		12"x12" Yellow Floor Tile with Associated Yellow Mastic- <i>Mastic Only</i>	Small Area in Room #10	Room 10	M		ND	NA
FT 2-5-A		12"x12" Yellow Floor Tile with Associated Yellow Mastic- <i>Floor Tile Only</i>	Small Area in Room #10	Room 10	M		ND	NA
FT 2-5-B		12"x12" Yellow Floor Tile with Associated Yellow Mastic- <i>Mastic Only</i>	Small Area in Room #10	Room 10	M		ND	NA
FT 2-6-A*		12"x12" Yellow Floor Tile with Associated Yellow Mastic- <i>Floor Tile Only</i>	Small Area in Room #10	Room 10	M		ND	NA
FT 2-6-B*		12"x12" Yellow Floor Tile with Associated Yellow Mastic- <i>Mastic Only</i>	Small Area in Room #10	Room 10	M		ND	NA
FT 3-7-A	3	12"x12" Yellow Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Underneath Samples FT 2-4 - FT 2-6	Room 10	M	50 SF	ND	NA
FT 3-7-B		<b>12"x12" Yellow Floor Tile and Associated Black Mastic- <i>Mastic Only</i></b>	<b>Underneath Samples FT 2-4 - FT 2-6</b>	<b>Room 10</b>	<b>M</b>		<b>C, 2%</b>	<b>G/NF</b>
FT 3-8-A		12"x12" Yellow Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Underneath Samples FT 2-4 - FT 2-6	Room 10	M		ND	NA
FT 3-8-B		<b>12"x12" Yellow Floor Tile and Associated Black Mastic- <i>Mastic Only</i></b>	<b>Underneath Samples FT 2-4 - FT 2-6</b>	<b>Room 10</b>	<b>M</b>		<b>Not Analyzed Due to Positive PLM Analysis</b>	
FT 3-9-A*		12"x12" Yellow Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Underneath Samples FT 2-4 - FT 2-6	Room 10	M		ND	NA
FT 3-9-B*		<b>12"x12" Yellow Floor Tile and Associated Black Mastic- <i>Mastic Only</i></b>	<b>Underneath Samples FT 2-4 - FT 2-6</b>	<b>Room 10</b>	<b>M</b>		<b>Not Analyzed Due to Positive PLM Analysis</b>	

**TABLE 1**  
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**MATERIALS SAMPLED ON SEPTEMBER 3-4, 2015**

Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description	Sample Location	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 4-10-A	4	12"x12" Blue Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Room 4, 10, 11, and Hallway Outside of Room 11	Room 10	M	1,880 SF	C, 5%	G/NF
FT 4-10-B		12"x12" Blue Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Room 4, 10, 11, and Hallway Outside of Room 11	Room 10	M		C, 5%	G/NF
FT 4-11		12"x12" Blue Floor Tile and Associated Black Mastic	Room 4, 10, 11, and Hallway Outside of Room 11	Room 11	M		Not Analyzed Due to Positive PLM Analysis	
FT 4-12		12"x12" Blue Floor Tile and Associated Black Mastic	Room 4, 10, 11, and Hallway Outside of Room 11	Room 4	M		Not Analyzed Due to Positive PLM Analysis	
FT 5-13-A	5	12"x12" Green Floor Tile with Black Mastic- <i>Floor Tile Only</i>	Underneath Samples FT 4-10 - FT 4-12 in Rooms 10 and 11, and Hallway Outside of Room 11	Room 10	M	1,120 SF	C, 10%	G/NF
FT 5-13-B		12"x12" Green Floor Tile with Black Mastic- <i>Mastic Only</i>	Underneath Samples FT 4-10 - FT 4-12 in Rooms 10 and 11, and Hallway Outside of Room 11	Room 10	M		C, 5%	G/NF
FT 5-14		12"x12" Green Floor Tile with Black Mastic	Underneath Samples FT 4-10 - FT 4-12 in Rooms 10 and 11, and Hallway Outside of Room 11	Room 11	M		Not Analyzed Due to Positive PLM Analysis	
FT 5-15		12"x12" Green Floor Tile with Black Mastic	Underneath Samples FT 4-10 - FT 4-12 in Rooms 10 and 11, and Hallway Outside of Room 11	Hallway Outside of Room 11	M		Not Analyzed Due to Positive PLM Analysis	
CT 6-16	6	2'x4' Wormhole/Pinhole Ceiling Tiles	Hallway Outside of Rooms 10 ,11, 59 and 34, and Rooms 13, 14, 15, 17, 18, 19, 20, 24, 26, 31, 32, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, and 59	Room 10	M	>5,000 SF	ND	NA
CT 6-17		2'x4' Wormhole/Pinhole Ceiling Tiles	Hallway Outside of Rooms 10 ,11, 59 and 34, and Rooms 13, 14, 15, 17, 18, 19, 20, 24, 26, 31, 32, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, and 59	Room 18	M		ND	NA
CT 6-18		2'x4' Wormhole/Pinhole Ceiling Tiles	Hallway Outside of Rooms 10 ,11, 59 and 34, and Rooms 13, 14, 15, 17, 18, 19, 20, 24, 26, 31, 32, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, and 59	Room 39	M		ND	NA

**TABLE 1**  
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**MATERIALS SAMPLED ON SEPTEMBER 3-4, 2015**

Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description	Sample Location	Type of Material	Total Amount	Type and % Asbestos	Condition
DW 7-19-A	7	Drywall and Joint Compound- <i>Drywall Only</i>	Various Walls and Ceilings Throughout Building	Room 10	SM	>5,000 SF	ND	NA
DW 7-19-B		Drywall and Joint Compound- <i>Joint Compound Only</i>	Various Walls and Ceilings Throughout Building	Room 10	SM		ND	NA
DW 7-20-A		Drywall and Joint Compound- <i>Drywall Only</i>	Various Walls and Ceilings Throughout Building	Room 11	SM		ND	NA
DW 7-20-B		Drywall and Joint Compound- <i>Joint Compound Only</i>	Various Walls and Ceilings Throughout Building	Room 11	SM		ND	NA
DW 7-21-A		Drywall and Joint Compound- <i>Drywall Only</i>	Various Walls and Ceilings Throughout Building	Hallway Outside of Room 25	SM		ND	NA
DW 7-21-B		Drywall and Joint Compound- <i>Joint Compound Only</i>	Various Walls and Ceilings Throughout Building	Hallway Outside of Room 25	SM		ND	NA
DW 7-22-A		Drywall and Joint Compound- <i>Drywall Only</i>	Various Walls and Ceilings Throughout Building	Room 15	SM		ND	NA
DW 7-22-B		Drywall and Joint Compound- <i>Joint Compound Only</i>	Various Walls and Ceilings Throughout Building	Room 15	SM		ND	NA
DW 7-23-A		Drywall and Joint Compound- <i>Drywall Only</i>	Various Walls and Ceilings Throughout Building	Room 35	SM		ND	NA
DW 7-23-B		Drywall and Joint Compound- <i>Joint Compound Only</i>	Various Walls and Ceilings Throughout Building	Room 35	SM		ND	NA
DW 7-24-A		Drywall and Joint Compound- <i>Drywall Only</i>	Various Walls and Ceilings Throughout Building	Room 37	SM		ND	NA
DW 7-24-B		Drywall and Joint Compound- <i>Joint Compound Only</i>	Various Walls and Ceilings Throughout Building	Room 37	SM		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description	Sample Location	Type of Material	Total Amount	Type and % Asbestos	Condition
DW 7-25-A		Drywall and Joint Compound- <i>Drywall Only</i>	Various Walls and Ceilings Throughout Building	Room 55	SM		ND	NA
DW 7-25-B		Drywall and Joint Compound- <i>Joint Compound Only</i>	Various Walls and Ceilings Throughout Building	Room 55	SM		ND	NA
TB 8-26-A	8	Black Vinyl Toe Boards with Associated Yellow Mastic- <i>Toe Boards Only</i>	Along Periphery of Wall System in Room 10	Room 10	M	20 LF	ND	NA
TB 8-26-B		Black Vinyl Toe Boards with Associated Yellow Mastic- <i>Mastic Only</i>	Along Periphery of Wall System in Room 10	Room 10	M		ND	NA
TB 8-27-A		Black Vinyl Toe Boards with Associated Yellow Mastic- <i>Toe Boards Only</i>	Along Periphery of Wall System in Room 10	Room 10	M		ND	NA
TB 8-27-B		Black Vinyl Toe Boards with Associated Yellow Mastic- <i>Mastic Only</i>	Along Periphery of Wall System in Room 10	Room 10	M		ND	NA
TB 8-28-A*		Black Vinyl Toe Boards with Associated Yellow Mastic- <i>Toe Boards Only</i>	Along Periphery of Wall System in Room 10	Room 10	M		ND	NA
TB 8-28-B*		Black Vinyl Toe Boards with Associated Yellow Mastic- <i>Mastic Only</i>	Along Periphery of Wall System in Room 10	Room 10	M		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description	Sample Location	Type of Material	Total Amount	Type and % Asbestos	Condition
TB 9-29-A	9	Black Vinyl Toe Boards with Associated Yellow Mastic- <i>Toe Boards Only</i>	Along Periphery of Wall System in Various Locations in Building	Hallway Outside of Room 11	M	1,000 LF	ND	NA
TB 9-29-B		Black Vinyl Toe Boards with Associated Yellow Mastic- <i>Mastic Only</i>	Along Periphery of Wall System in Various Locations in Building	Hallway Outside of Room 11	M		ND	NA
TB 9-30-A		Black Vinyl Toe Boards with Associated Yellow Mastic- <i>Toe Boards Only</i>	Along Periphery of Wall System in Various Locations in Building	Restroom Outside of Room 10	M		ND	NA
TB 9-30-B		Black Vinyl Toe Boards with Associated Yellow Mastic- <i>Mastic Only</i>	Along Periphery of Wall System in Various Locations in Building	Restroom Outside of Room 10	M		ND	NA
TB 9-31-A*		Black Vinyl Toe Boards with Associated Yellow Mastic- <i>Toe Boards Only</i>	Along Periphery of Wall System in Various Locations in Building	Main Hallway Outside of Room 25	M		ND	NA
TB 9-31-B*		Black Vinyl Toe Boards with Associated Yellow Mastic- <i>Mastic Only</i>	Along Periphery of Wall System in Various Locations in Building	Main Hallway Outside of Room 25	M		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description	Sample Location	Type of Material	Total Amount	Type and % Asbestos	Condition
PL 10-32-A	10	Textured Ceiling Material: Skim and Base Coat- <i>Skim Coat Only</i>	Above Suspended Ceiling Tile System in Hallway Outside of Rooms 10 and 11	Hallway Outside of Room 10	SM	740 SF	C, 10%	NA
PL 10-32-B		PACM-Textured Ceiling Material: Skim and Base Coat- <i>Base Coat Only</i>	Above Suspended Ceiling Tile System in Hallway Outside of Rooms 10 and 11	Hallway Outside of Room 10	SM		PACM <sup>(3)</sup>	
PL 10-33		Textured Ceiling Material: Skim and Base Coats	Above Suspended Ceiling Tile System in Hallway Outside of Rooms 10 and 11	Hallway Outside of Room 10	SM		Not Analyzed Due to Positive PLM Analysis	
PL 10-34		Textured Ceiling Material: Skim and Base Coats	Above Suspended Ceiling Tile System in Hallway Outside of Rooms 10 and 11	Hallway Outside of Room 10	SM		Not Analyzed Due to Positive PLM Analysis	
PL 10-35		Textured Ceiling Material: Skim and Base Coats	Above Suspended Ceiling Tile System in Hallway Outside of Rooms 10 and 11	Hallway Outside of Room 11	SM		Not Analyzed Due to Positive PLM Analysis	
PL 10-36		Textured Ceiling Material: Skim and Base Coats	Above Suspended Ceiling Tile System in Hallway Outside of Rooms 10 and 11	Hallway Outside of Room 11	SM		Not Analyzed Due to Positive PLM Analysis	
PL 10-37		Textured Ceiling Material: Skim and Base Coats	Above Suspended Ceiling Tile System in Hallway Outside of Rooms 10 and 11	Hallway Outside of Room 11	SM		Not Analyzed Due to Positive PLM Analysis	
PL 10-38		Textured Ceiling Material: Skim and Base Coats	Above Suspended Ceiling Tile System in Hallway Outside of Rooms 10 and 11	Hallway Outside of Room 11	SM		Not Analyzed Due to Positive PLM Analysis	
CT 11-39		11	2'x4' Smooth Ceiling Tile	Suspended Ceiling Tile System in Rooms 12 and 13	Room 12		M	140 SF
CT 11-40	2'x4' Smooth Ceiling Tile		Suspended Ceiling Tile System in Rooms 12 and 13	Room 13	M	ND	NA	
CT 11-41	2'x4' Smooth Ceiling Tile		Suspended Ceiling Tile System in Rooms 12 and 13	Room 13	M	ND	NA	

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**ASBESTOS RESULTS - PLM AND TEM ANALYSIS**  
**TOWN OF BLUFFTON THEODORE D. WASHINGTON MUNICIPAL BUILDING**  
**20 BRIDGE STREET**  
**BLUFFTON, SOUTH CAROLINA 29910**  
**MATERIALS SAMPLED ON SEPTEMBER 3-4, 2015**

Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description	Sample Location	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 12-42-A	12	Yellow Surface Mastic over 12"x12" White with Cream Streaks Floor Tile and Associated Black Mastic- <i>Yellow Surface Mastic Only</i>	Foyer Outside of Room 12	Foyer Outside of Room 12 and Room 12	M	80 SF	C, 2%	G/NF
FT 12-42-B		Yellow Surface Mastic over 12"x12" White with Cream Streaks Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Foyer Outside of Room 12	Foyer Outside of Room 12 and Room 12	M		C, 7%	G/NF
FT 12-42-C		Yellow Surface Mastic over 12"x12" White with Cream Streaks Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Foyer Outside of Room 12	Foyer Outside of Room 12 and Room 12	M		C, 5%	G/NF
FT 12-43		Yellow Surface Mastic over 12"x12" White with Cream Streaks Floor Tile and Associated Black Mastic	Foyer Outside of Room 12	Foyer Outside of Room 12 and Room 12	M		Not Analyzed Due to Positive PLM Analysis	
FT 12-44*		Yellow Surface Mastic over 12"x12" White with Cream Streaks Floor Tile and Associated Black Mastic	Foyer Outside of Room 12	Foyer Outside of Room 12 and Room 12	M		Not Analyzed Due to Positive PLM Analysis	
FT 13-45-A	13	White Floor Tile and Associated Tan Mastic- <i>Floor Tile Only</i>	2nd Layer Underneath FT 12-42 - FT 12-44	Foyer Outside of Room 12	M	8 SF	ND	NA
FT 13-45-B		White Floor Tile and Associated Tan Mastic- <i>Mastic Only</i>	2nd Layer Underneath FT 12-42 - FT 12-44	Foyer Outside of Room 12	M		C,<1%	NA
FT 13-46-A		White Floor Tile and Associated Tan Mastic- <i>Floor Tile Only</i>	2nd Layer Underneath FT 12-42 - FT 12-44	Foyer Outside of Room 12	M		ND	NA
FT 13-46-B		White Floor Tile and Associated Tan Mastic- <i>Mastic Only</i>	2nd Layer Underneath FT 12-42 - FT 12-44	Foyer Outside of Room 12	M		C,<1%	NA
FT 13-47-A*		White Floor Tile and Associated Tan Mastic- <i>Floor Tile Only</i>	2nd Layer Underneath FT 12-42 - FT 12-44	Foyer Outside of Room 12	M		ND	NA
FT 13-47-B*		White Floor Tile and Associated Tan Mastic- <i>Mastic Only</i>	2nd Layer Underneath FT 12-42 - FT 12-44	Foyer Outside of Room 12	M		C,<1%	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description	Sample Location	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 14-48-A	14	12"x12" White with Multi-Colored Streaks with Associated Cream Mastic- <i>Floor Tile Only</i>	Room 12	Room 12	M	6 SF	ND	NA
FT 14-48-B		12"x12" White with Multi-Colored Streaks with Associated Cream Mastic- <i>Mastic Only</i>	Room 12	Room 12	M		C,<1%	NA
FT 14-49-A		12"x12" White with Multi-Colored Streaks with Associated Cream Mastic- <i>Floor Tile Only</i>	Room 12	Room 12	M		ND	NA
FT 14-49-B		12"x12" White with Multi-Colored Streaks with Associated Cream Mastic- <i>Mastic Only</i>	Room 12	Room 12	M		C,<1%	NA
FT 14-50-A*		12"x12" White with Multi-Colored Streaks with Associated Cream Mastic- <i>Floor Tile Only</i>	Room 12	Room 12	M		ND	NA
FT 14-50-B*		12"x12" White with Multi-Colored Streaks with Associated Cream Mastic- <i>Mastic Only</i>	Room 12	Room 12	M		ND	NA
PC 15-51	15	"Popcorn" Ceiling Texture	Room 4	Room 4	SM	840 SF	ND	NA
PC 15-52		"Popcorn" Ceiling Texture	Room 4	Room 4	SM		ND	NA
PC 15-53		"Popcorn" Ceiling Texture	Room 4	Room 4	SM		ND	NA
PC 15-54		"Popcorn" Ceiling Texture	Room 4	Room 4	SM		ND	NA
PC 15-55		"Popcorn" Ceiling Texture	Room 4	Room 4	SM		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description	Sample Location	Type of Material	Total Amount	Type and % Asbestos	Condition
CM 16-56	16	Yellow Carpet Mastic	Associated with Carpet in Room 5 and 6	Room 5	M	650 SF	ND	NA
CM 16-57		Yellow Carpet Mastic	Associated with Carpet in Room 5 and 6	Room 5	M		ND	NA
CM 16-58*		Yellow Carpet Mastic	Associated with Carpet in Room 5 and 6	Room 6	M		ND	NA
FT 17-59-A	17	Green Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Underneath Carpet in Rooms 5 and 6	Room 5	M	650 SF	C, 10%	G/NF
FT 17-59-B		Green Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Underneath Carpet in Rooms 5 and 6	Room 5	M		C, 5%	G/NF
FT 17-60		Green Floor Tile and Associated Black Mastic	Underneath Carpet in Rooms 5 and 6	Room 5	M		Not Analyzed Due to Positive PLM Analysis	
FT 17-61*		Green Floor Tile and Associated Black Mastic	Underneath Carpet in Rooms 5 and 6	Room 6	M		Not Analyzed Due to Positive PLM Analysis	
TB 18-62-A	18	White Toe Boards with Yellow Mastic- <i>Toe Boards Only</i>	Room 6	Room 6	M	60 LF	ND	NA
TB 18-62-B		White Toe Boards with Yellow Mastic- <i>Mastic Only</i>	Room 6	Room 6	M		ND	NA
TB 18-63-A		White Toe Boards with Yellow Mastic- <i>Toe Boards Only</i>	Room 6	Room 6	M		ND	NA
TB 18-63-B		White Toe Boards with Yellow Mastic- <i>Mastic Only</i>	Room 6	Room 6	M		ND	NA
TB 18-64-A*		White Toe Boards with Yellow Mastic- <i>Toe Boards Only</i>	Room 6	Room 6	M		ND	NA

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TB 18-64-B*		White Toe Boards with Yellow Mastic- <i>Mastic Only</i>	Room 6	Room 6	M		ND	NA
CT 19-65	19	2'x2' Wormhole/Pinhole Ceiling Tile	Room 6	Room 6	M	110 SF	ND	NA
CT 19-66		2'x2' Wormhole/Pinhole Ceiling Tile	Room 6	Room 6	M		ND	NA
CT 19-67		2'x2' Wormhole/Pinhole Ceiling Tile	Room 6	Room 6	M		ND	NA
CT 20-68	20	2'x2' Pinhole Ceiling Tile	Room 6	Room 6	M	110 SF	ND	NA
CT 20-69		2'x2' Pinhole Ceiling Tile	Room 6	Room 6	M		ND	NA
CT 20-70		2'x2' Pinhole Ceiling Tile	Room 6	Room 6	M		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description	Sample Location	Type of Material	Total Amount	Type and % Asbestos	Condition
DWM 21-71-A	21	White Ductwork Mastic	AHU in Room 9 and Above Suspended Ceiling Tile System on Seams of Ventilation Ductwork	Room 9	TSI	30 LF	ND	NA
DWM 21-71-B		Yellow Insulation	AHU in Room 9 and Above Suspended Ceiling Tile System on Seams of Ventilation Ductwork	Room 9	TSI		ND	NA
DWM 21-72-A		White Ductwork Mastic	AHU in Room 9 and Above Suspended Ceiling Tile System on Seams of Ventilation Ductwork	Above Suspended Ceiling Tile System In Room 54	TSI		ND	NA
DWM 21-72-B		Yellow Insulation	AHU in Room 9 and Above Suspended Ceiling Tile System on Seams of Ventilation Ductwork	Above Suspended Ceiling Tile System In Room 54	TSI		ND	NA
DWM 21-73-A*		White Ductwork Mastic	AHU in Room 9 and Above Suspended Ceiling Tile System on Seams of Ventilation Ductwork	Above Suspended Ceiling Tile System In Room 55	TSI		ND	NA
DWM 21-73-B		Yellow Insulation	AHU in Room 9 and Above Suspended Ceiling Tile System on Seams of Ventilation Ductwork	Above Suspended Ceiling Tile System In Room 55	TSI		ND	NA
FT 22-74	22	12"x12" White "Peel and Stick" Floor Tile with Non-Suspect Asbestos Containing Clear Adhesive	Small Area in Room 11	Room 11	M	16 SF	ND	NA
FT 22-75		12"x12" White "Peel and Stick" Floor Tile with Non-Suspect Asbestos Containing Clear Adhesive	Small Area in Room 11	Room 11	M		ND	NA
FT 22-76*		12"x12" White "Peel and Stick" Floor Tile with Non-Suspect Asbestos Containing Clear Adhesive	Small Area in Room 11	Room 11	M		ND	NA
CT 23-77	23	2'x2' Smooth Ceiling Tile	Main Hallway Outside of Room 18	Main Hallway Outside of Room 25	M	1,240 SF	ND	NA
CT 23-78		2'x2' Smooth Ceiling Tile	Main Hallway Outside of Room 18	Main Hallway Outside of Room 18	M		ND	NA
CT 23-79		2'x2' Smooth Ceiling Tile	Main Hallway Outside of Room 18	Main Hallway Outside of Room 21	M		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description	Sample Location	Type of Material	Total Amount	Type and % Asbestos	Condition
CT 24-80	24	2'x2' Wormhole/Pinhole Ceiling Tile	Main Hallway Outside of Room 18	Main Hallway Outside of Room 25	M	20 SF	ND	NA
CT 24-81		2'x2' Wormhole/Pinhole Ceiling Tile	Main Hallway Outside of Room 18	Main Hallway Outside of Room 17	M		ND	NA
CT 24-82		2'x2' Wormhole/Pinhole Ceiling Tile	Main Hallway Outside of Room 18	Main Hallway Outside of Room 15	M		ND	NA
CM 25-83	25	Yellow Carpet Mastic	Associated with Green Carpet in Room 13	Room 13	M	240 SF	ND	NA
CM 25-84		Yellow Carpet Mastic	Associated with Green Carpet in Room 13	Room 13	M		ND	NA
CM 25-85*		Yellow Carpet Mastic	Associated with Green Carpet in Room 13	Room 13	M		ND	NA
CT 26-86	26	Smooth Pinhole Ceiling Tile	Room 13 and Storage Room in Room 18	Room 13	M	240 SF	ND	NA
CT 26-87		Smooth Pinhole Ceiling Tile	Room 13 and Storage Room in Room 18	Room 13	M		ND	NA
CT 26-88		Smooth Pinhole Ceiling Tile	Room 13 and Storage Room in Room 18	Storage Room in Room 18	M		ND	NA
SR 27-89	27	White Canvas Pipe Wrap	AHU in Room 16	AHU in Room 16	TSI	15 LF	ND	NA
SR 27-90		White Canvas Pipe Wrap	AHU in Room 16	AHU in Room 16	TSI		ND	NA
SR 27-91		White Canvas Pipe Wrap	AHU in Room 16	AHU in Room 16	TSI		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description	Sample Location	Type of Material	Total Amount	Type and % Asbestos	Condition
CM 28-92	28	Yellow Carpet Mastic <sup>(1)</sup>	1st Layer -Associated with Bluish Green Carpet in Room 15 over PACM Floor Tile and Mastic	Room 15	M	290 SF	ND	NA
CM 28-93		Yellow Carpet Mastic <sup>(1)</sup>	1st Layer -Associated with Bluish Green Carpet in Room 15 over PACM Floor Tile and Mastic	Room 15	M		ND	NA
CM 28-94*		Yellow Carpet Mastic <sup>(1)</sup>	1st Layer -Associated with Bluish Green Carpet in Room 15 over PACM Floor Tile and Mastic	Room 15	M		ND	NA
FT 29-95-A	29	12"x12" White Floor Tile with Associated Yellow Mastic- <i>Floor Tile Only</i> <sup>(1)</sup>	1st Layer in Restroom in Room 15 over PACM Floor Tile and Mastic, and in Rooms 18 and 21, and Restroom in Room 17	Restroom in Room 15	M	160 SF	ND	NA
FT 29-95-B		12"x12" White Floor Tile with Associated Yellow Mastic- <i>Mastic Only</i> <sup>(1)</sup>	1st Layer in Restroom in Room 15 over PACM Floor Tile and Mastic, and in Rooms 18 and 21, and Restroom in Room 17	Restroom in Room 15	M		ND	NA
FT 29-96-A		12"x12" White Floor Tile with Associated Yellow Mastic- <i>Floor Tile Only</i> <sup>(1)</sup>	1st Layer in Restroom in Room 15 over PACM Floor Tile and Mastic, and in Rooms 18 and 21, and Restroom in Room 17	Restroom in Room 17	M		ND	NA
FT 29-96-B		12"x12" White Floor Tile with Associated Yellow Mastic- <i>Mastic Only</i> <sup>(1)</sup>	1st Layer in Restroom in Room 15 over PACM Floor Tile and Mastic, and in Rooms 18 and 21, and Restroom in Room 17	Restroom in Room 17	M		ND	NA
FT 29-97-A*		12"x12" White Floor Tile with Associated Yellow Mastic- <i>Floor Tile Only</i> <sup>(1)</sup>	1st Layer in Restroom in Room 15 over PACM Floor Tile and Mastic, and in Rooms 18 and 21, and Restroom in Room 17	Room 18	M		ND	NA
FT 29-97-B*		12"x12" White Floor Tile with Associated Yellow Mastic- <i>Mastic Only</i> <sup>(1)</sup>	1st Layer in Restroom in Room 15 over PACM Floor Tile and Mastic, and in Rooms 18 and 21, and Restroom in Room 17	Room 18	M		ND	NA
FT 30-98	30	12"x12" Cream Floor Tile with Associated Yellow Mastic- <i>Floor Tile Only</i> <sup>(1)(2)</sup>	1st Layer in Restroom in Room 15 over PACM Floor Tile and Mastic	Restroom in Room 15	M	50 SF	ND	NA
FT 30-99		12"x12" Cream Floor Tile with Associated Yellow Mastic- <i>Floor Tile Only</i> <sup>(1)(2)</sup>	1st Layer in Restroom in Room 15 over PACM Floor Tile and Mastic	Restroom in Room 15	M		ND	NA
FT 30-100*		12"x12" Cream Floor Tile with Associated Yellow Mastic- <i>Floor Tile Only</i> <sup>(1)(2)</sup>	1st Layer in Restroom in Room 15 over PACM Floor Tile and Mastic	Restroom in Room 15	M		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description	Sample Location	Type of Material	Total Amount	Type and % Asbestos	Condition
CM 31-101	31	Cream Carpet Mastic <sup>(1)</sup>	Room 17 Associated with Cream and Blue Carpet over PACM Floor Tile and Mastic	Room 17	M	435 SF	ND	NA
CM 31-102		Cream Carpet Mastic <sup>(1)</sup>	Room 17 Associated with Cream and Blue Carpet over PACM Floor Tile and Mastic	Room 17	M		ND	NA
CM 31-103*		Cream Carpet Mastic <sup>(1)</sup>	Room 17 Associated with Cream and Blue Carpet over PACM Floor Tile and Mastic	Room 17	M		ND	NA
CM 32-104	32	Cream Carpet Mastic <sup>(1)</sup>	Room 24 Associated with Brown Carpet over PACM Floor Tile and Mastic	Room 24	M	340 SF	ND	NA
CM 32-105		Cream Carpet Mastic <sup>(1)</sup>	Room 24 Associated with Brown Carpet over PACM Floor Tile and Mastic	Room 24	M		ND	NA
CM 32-106*		Cream Carpet Mastic <sup>(1)</sup>	Room 24 Associated with Brown Carpet over PACM Floor Tile and Mastic	Room 24	M		ND	NA
CM 33-107	33	Cream Carpet Mastic <sup>(1)</sup>	Room 21 Associated with Brown Carpet over PACM Floor Tile and Mastic	Room 21	M	260 SF	ND	NA
CM 33-108		Cream Carpet Mastic <sup>(1)</sup>	Room 21 Associated with Brown Carpet over PACM Floor Tile and Mastic	Room 21	M		ND	NA
CM 33-109*		Cream Carpet Mastic <sup>(1)</sup>	Room 21 Associated with Brown Carpet over PACM Floor Tile and Mastic	Room 21	M		ND	NA
PB 34-110	34	Brown Paper Facing	Above Suspended Ceiling Tile System on Brown Paper Faced Fibrous Glass Insulated Horizontal Pipe	Above Suspended Ceiling Tile System in Room 14	TSI	500 LF	ND	NA
PB 34-111		Brown Paper Facing	Above Suspended Ceiling Tile System on Brown Paper Faced Fibrous Glass Insulated Horizontal Pipe	Room 25	TSI		ND	NA
PB 34-112		Brown Paper Facing	Above Suspended Ceiling Tile System on Brown Paper Faced Fibrous Glass Insulated Horizontal Pipe	Room 25	TSI		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description	Sample Location	Type of Material	Total Amount	Type and % Asbestos	Condition
CW 35-113	35	White Canvas Pipe Wrap	White Canvas Wrap over Fibrous Glass Insulated Piping on AHU in Mechanical Room	Room 23	TSI	20 LF	ND	NA
CW 35-114		White Canvas Pipe Wrap	White Canvas Wrap over Fibrous Glass Insulated Piping on AHU in Mechanical Room	Room 23	TSI		ND	NA
CW 35-115		White Canvas Pipe Wrap	White Canvas Wrap over Fibrous Glass Insulated Piping on AHU in Mechanical Room	Room 23	TSI		ND	NA
FE 36-116	36	White Mastic	White Mastic on Ends of Fibrous Glass Insulated Fittings on AHU in Mechanical Room	Room 23	TSI	6 Fittings	C, 5%	G/F
FE 36-117		White Mastic	White Mastic on Ends of Fibrous Glass Insulated Fittings on AHU in Mechanical Room	Room 23	TSI		Not Analyzed Due to Positive PLM Analysis	
FE 36-118*		White Mastic	White Mastic on Ends of Fibrous Glass Insulated Fittings on AHU in Mechanical Room	Room 23	TSI		Not Analyzed Due to Positive PLM Analysis	
FT 37-119-A	37	12"x12" Cream with Black Dots Floor Tile and Associated Yellow Mastic- <i>Floor Tile Only</i> <sup>(1)</sup>	1st Layer in Auditorium over FT 38-122- FT 38-124	Room 26	M	2,115 SF	ND	NA
FT 37-119-B		12"x12" Cream with Black Dots Floor Tile and Associated Yellow Mastic- <i>Mastic Only</i> <sup>(1)</sup>	1st Layer in Auditorium over FT 38-122- FT 38-124	Room 26	M		ND	NA
FT 37-120-A		12"x12" Cream with Black Dots Floor Tile and Associated Yellow Mastic- <i>Floor Tile Only</i> <sup>(1)</sup>	1st Layer in Auditorium over FT 38-122- FT 38-124	Room 26	M		ND	NA
FT 37-120-B		12"x12" Cream with Black Dots Floor Tile and Associated Yellow Mastic- <i>Mastic Only</i> <sup>(1)</sup>	1st Layer in Auditorium over FT 38-122- FT 38-124	Room 26	M		ND	NA
FT 37-121-A*		12"x12" Cream with Black Dots Floor Tile and Associated Yellow Mastic- <i>Floor Tile Only</i> <sup>(1)</sup>	1st Layer in Auditorium over FT 38-122- FT 38-124	Room 26	M		ND	NA
FT 37-121-B*		12"x12" Cream with Black Dots Floor Tile and Associated Yellow Mastic- <i>Mastic Only</i> <sup>(1)</sup>	1st Layer in Auditorium over FT 38-122- FT 38-124	Room 26	M		C, <1%	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description	Sample Location	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 38-122-A	38	Cream Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	2nd Layer in Auditorium	Room 26	M	2,115 SF	C, 5%	G/NF
FT 38-122-B		Cream Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	2nd Layer in Auditorium	Room 26	M		ND	NA
FT 38-123-A		Cream Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	2nd Layer in Auditorium	Room 26	M		Not Analyzed Due to Positive PLM Analysis	
FT 38-123-B		Cream Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	2nd Layer in Auditorium	Room 26	M		ND	NA
FT 38-124-A*		Cream Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	2nd Layer in Auditorium	Room 26	M		Not Analyzed Due to Positive PLM Analysis	
FT 38-124-B*		Cream Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	2nd Layer in Auditorium	Room 26	M		C, 2%	G/NF
CM 39-125		39	Yellow Carpet Mastic <sup>(1)</sup>	1st Layer in Auditorium over FT 38-122- FT 38-124	Room 26		M	390 SF
CM 39-126	Yellow Carpet Mastic <sup>(1)</sup>		1st Layer in Auditorium over FT 38-122- FT 38-124	Room 26	M	ND	NA	
CM 39-127*	Yellow Carpet Mastic <sup>(1)</sup>		1st Layer in Auditorium over FT 38-122- FT 38-124	Room 26	M	C,<1%	NA	
TB 40-128-A	40	White Toeboards with Associated Cream Mastic - <i>Toe Board Only</i>	Along Periphery of Wall System in Auditorium	Room 26	M	96 SF	ND	NA
TB 40-128-B		White Toeboards with Associated Cream Mastic - <i>Mastic Only</i>	Along Periphery of Wall System in Auditorium	Room 26	M		ND	NA
TB 40-129-A		White Toeboards with Associated Cream Mastic - <i>Toe Board Only</i>	Along Periphery of Wall System in Auditorium	Room 26	M		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description	Sample Location	Type of Material	Total Amount	Type and % Asbestos	Condition
TB 40-129-B		White Toeboards with Associated Cream Mastic - <i>Mastic Only</i>	Along Periphery of Wall System in Auditorium	Room 26	M		ND	NA
TB 40-130-A*		White Toeboards with Associated Cream Mastic - <i>Toe Board Only</i>	Along Periphery of Wall System in Auditorium	Room 26	M		ND	NA
TB 40-130-B*		White Toeboards with Associated Cream Mastic - <i>Mastic Only</i>	Along Periphery of Wall System in Auditorium	Room 26	M		ND	NA
CM 41-131	41	Yellow Carpet Mastic <sup>(1)</sup>	1st Layer in Rooms 27, 28, 29, 30, 32, 33, 34, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57 and 59	Room 59	M	6,775 SF	ND	NA
CM 41-132		Yellow Carpet Mastic <sup>(1)</sup>	1st Layer in Rooms 27, 28, 29, 30, 32, 33, 34, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57 and 59	Room 32	M		ND	NA
CM 41-133*		Yellow Carpet Mastic <sup>(1)</sup>	1st Layer in Rooms 27, 28, 29, 30, 32, 33, 34, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57 and 59	Room 54	M		ND	NA
FT 42-134-A	42	Cream Floor Tile and Associated Black Mastic - <i>Floor Tile Only</i>	2nd Layer in Rooms 27, 28, 29, 30, 32, 33, 34, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57 and 59	Room 59	M	6,775 SF	C, 5%	G/NF
FT 42-134-B		Cream Floor Tile and Associated Black Mastic - <i>Mastic Only</i>	2nd Layer in Rooms 27, 28, 29, 30, 32, 33, 34, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57 and 59	Room 59	M		C, 5%	G/NF
FT 42-135		Cream Floor Tile and Associated Black Mastic	2nd Layer in Rooms 27, 28, 29, 30, 32, 33, 34, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57 and 59	Room 32	M		Not Analyzed Due to Positive PLM Analysis	
FT 42-136*		Cream Floor Tile and Associated Black Mastic	2nd Layer in Rooms 27, 28, 29, 30, 32, 33, 34, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57 and 59	Room 54	M		Not Analyzed Due to Positive PLM Analysis	

**TABLE 1**  
**ASBESTOS RESULTS - PLM AND TEM ANALYSIS**  
**TOWN OF BLUFFTON THEODORE D. WASHINGTON MUNICIPAL BUILDING**  
**20 BRIDGE STREET**  
**BLUFFTON, SOUTH CAROLINA 29910**  
**MATERIALS SAMPLED ON SEPTEMBER 3-4, 2015**

Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description	Sample Location	Type of Material	Total Amount	Type and % Asbestos	Condition
TB 43-137-A	43	Cream Toe Board with Yellow Mastic- <i>Toe Board Only</i>	Main Hallway and Rooms 31, 32, 34, 37, 38, 39, 40, 41, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57 and 59	Room 59	M	>5,000 LF	ND	NA
TB 43-137-B		Cream Toe Board with Yellow Mastic- <i>Mastic Only</i>	Main Hallway and Rooms 31, 32, 34, 37, 38, 39, 40, 41, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57 and 59	Room 59	M		ND	NA
TB 43-138-A		Cream Toe Board with Yellow Mastic- <i>Toe Board Only</i>	Main Hallway and Rooms 31, 32, 34, 37, 38, 39, 40, 41, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57 and 59	Room 40	M		ND	NA
TB 43-138-B		Cream Toe Board with Yellow Mastic- <i>Mastic Only</i>	Main Hallway and Rooms 31, 32, 34, 37, 38, 39, 40, 41, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57 and 59	Room 40	M		ND	NA
TB 43-139-A*		Cream Toe Board with Yellow Mastic- <i>Toe Board Only</i>	Main Hallway and Rooms 31, 32, 34, 37, 38, 39, 40, 41, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57 and 59	Room 54	M		ND	NA
TB 43-139-B*		Cream Toe Board with Yellow Mastic- <i>Mastic Only</i>	Main Hallway and Rooms 31, 32, 34, 37, 38, 39, 40, 41, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57 and 59	Room 54	M		ND	NA
FT 44-140	44	12"x12" Brown Marbled "Peel and Stick" Floor Tile with Non-Suspect Asbestos Containing Clear Adhesive- <i>Floor Tile Only</i>	Restroom Beside Room 59	Restroom Beside Room 59	M	64 SF	ND	NA
FT 44-141		12"x12" Brown Marbled "Peel and Stick" Floor Tile with Non-Suspect Asbestos Containing Clear Adhesive- <i>Floor Tile Only</i>	Restroom Beside Room 59	Restroom Beside Room 59	M		ND	NA
FT 44-142*		12"x12" Brown Marbled "Peel and Stick" Floor Tile with Non-Suspect Asbestos Containing Clear Adhesive- <i>Floor Tile Only</i>	Restroom Beside Room 59	Restroom Beside Room 59	M		ND	NA
TBM 45-143	45	Residual Brown Mastic	2nd Layer Behind TB 43-137 - TB 43-139	Main Hallway	M	>5,000 LF	ND	NA
TBM 45-144		Residual Brown Mastic	2nd Layer Behind TB 43-137 - TB 43-139	Room 40	M		ND	NA
TBM 45-145*		Residual Brown Mastic	2nd Layer Behind TB 43-137 - TB 43-139	Room 54	M		ND	NA

**TABLE 1**  
**ASBESTOS RESULTS - PLM AND TEM ANALYSIS**  
**TOWN OF BLUFFTON THEODORE D. WASHINGTON MUNICIPAL BUILDING**  
**20 BRIDGE STREET**  
**BLUFFTON, SOUTH CAROLINA 29910**  
**MATERIALS SAMPLED ON SEPTEMBER 3-4, 2015**

Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description	Sample Location	Type of Material	Total Amount	Type and % Asbestos	Condition
NA	46	9"x9" Cream or Pink Floor Tile and Associated Mastic	Rooms 15, 17, 18, 19, 20, 21, 22 and 24, Restrooms in Rooms 15 and 17, and Closets in Rooms 18 and 21	Did Not Sample	M	4,915 SF	PACM <sup>(3)</sup>	
NA	47	Auditorium Stage Curtain	Auditorium	Did Not Sample	M	1 Curtain	PACM <sup>(3)</sup>	
NA	48	Roof Flashing	Around Penetrations On Roof	Did Not Sample	M	4 Penetrations	PACM <sup>(3)</sup>	

**NOMENCLATURE AND NOTES:**

NA - Not Applicable; Entered into table when there is no asbestos detected in sample

\*TEM Analysis

(1) Although this material does not contain asbestos, it is layered with either a Presumed Asbestos Containing Material (PACM) or an Asbestos Containing Material (ACM). If the non-asbestos containing material cannot be separated from the ACM and/or PACM then they both should both be handled and disposed of as ACM(s).

(2) The yellow mastic for this floor tile is homogeneous with the yellow mastic in Sample Numbers FT 29-95 - FT 29-97

(3) Presumed Asbestos Containing Material (PACM)

**Type and Percent Asbestos**

C = Chrysotile

A = Amosite

ND = None Detected

**Sample Number Abbreviations**

DW- Drywall and Joint Compound

PL- Plaster: Base and Skim Coat

FT- Floor Tile and Associated Mastic

DWM- Ductwork Mastic

TB- Toe Board and Associated Mastic

CT- Ceiling Tile

FE- Pipe Fitting Ends

PB- Brown Paper Pipe Facing

CW- Canvas Wrap

TBM- Toe Board Mastic

CM- Carpet Mastic

SR- White Canvas Wrap

RM- Roof Material

PC- Textured Ceiling Material

**Type of Material**

M = Miscellaneous

SM = Surfacing Material

TSI = Thermal System Insulation

**Measurements**

SF=Square Feet

LF= Linear Feet

**Condition of Material**

NF = Non-friable, F = Friable

G = Good; D = Damaged; SD = Significantly Damaged

**These categories above apply only when a material is identified as an ACM**

**APPENDIX 4.2**  
**DIAGRAM OF ROOM NUMBER LOCATIONS**



**APPENDIX 4.3**  
**CHAIN-OF-CUSTODY RECORDS AND**  
**CERTIFICATES OF ANALYSIS**



September 18, 2015

Gel Engineering, LLC  
2040 Savage Road  
Charleston, SC 29407

**CLIENT PROJECT:** tob100115  
**CEI LAB CODE:** T15-1500

Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on September 11, 2015. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield Method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

A handwritten signature in black ink, appearing to read 'Tianbao Bai', is written over a light gray rectangular background.

Tianbao Bai, Ph.D., CIH  
Laboratory Director



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**ASBESTOS ANALYTICAL REPORT**  
**By: Transmission Electron Microscopy**

Prepared for

**Gel Engineering, LLC**

---

CLIENT PROJECT: tob100115

CEI LAB CODE: T15-1500

TEST METHOD: Bulk Chatfield  
EPA 600 / R93 / 116

REPORT DATE: 09/18/15

**TEL: 866-481-1412**

*[www.ceilabs.com](http://www.ceilabs.com)*



# ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

**Client:** Gel Engineering, LLC  
 2040 Savage Road  
 Charleston, SC 29407

**CEI Lab Code:** T15-1500  
**Date Received:** 09-11-15  
**Date Analyzed:** 09-16-15  
**Date Reported:** 09-18-15

**Project:** tob100115

## TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
RM 1-3 T42558	Tar	0.296	53.4	10.5	36.1	None Detected
FT 2-6 T42559	Yellow Floor Tile	0.467	13.1	85.7	1.2	None Detected
FT 2-6 T42560	Yellow Mastic	0.162	48.1	3.7	48.2	None Detected
FT 3-9 T42561	Yellow Floor Tile	0.32	10.3	88.8	.9	None Detected
TB 8-28 T42562	Black Toe Board	0.254	53.5	45.3	1.2	None Detected
TB 8-28 T42563	Yellow Mastic	0.201	70.1	5	24.9	None Detected
TB 9-31 T42564	Black Toe Board	0.231	54.5	1.3	44.2	None Detected
TB 9-31 T42565	Yellow, Brown Mastic	0.42	49.5	10.5	40	None Detected
FT 13-47 T42566	White Floor Tile	0.396	18.2	73.7	8.1	None Detected
FT 13-47 T42567	Tan Mastic	0.1	40	53	7	<1% Chrysotile
FT 14-50 T42568	White, Beige Floor Tile	0.381	11.5	84	4.5	None Detected
FT 14-50 T42569	Cream Mastic	0.105	37.1	12.4	50.5	None Detected



# ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

**Client:** Gel Engineering, LLC  
 2040 Savage Road  
 Charleston, SC 29407

**CEI Lab Code:** T15-1500  
**Date Received:** 09-11-15  
**Date Analyzed:** 09-16-15  
**Date Reported:** 09-18-15

**Project:** tob100115

## TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
CM 16-58 T42570	Yellow Carpet Mastic	0.25	51.6	11.6	36.8	None Detected
TB 18-64 T42571	White Toe Board	0.204	52	47.5	.5	None Detected
TB 18-64 T42572	Yellow Mastic	0.172	66.9	6.4	26.7	None Detected
DWM 21-73 T42573	White Ductwork Mastic	0.102	37.3	5.9	56.8	None Detected
FT 22-76 T42574	White Floor Tile	0.158	38.6	60.1	1.3	None Detected
CM 25-85 T42575	Yellow Carpet Mastic	0.354	49.7	41.2	9.1	None Detected
CM 28-94 T42576	Yellow Carpet Mastic	0.22	52.3	.5	47.2	None Detected
FT 29-97 T42577	White Floor Tile	0.437	22.7	41	36.3	None Detected
FT 29-97 T42578	Yellow Mastic	0.116	56.9	7.8	35.3	None Detected
FT 30-100 T42579	Cream Floor Tile	0.332	14.2	74.1	11.7	None Detected
CM 31-103 T42580	Cream Carpet Mastic	0.295	46.4	19.3	34.3	None Detected
CM 32-106 T42581	Cream Carpet Mastic	0.127	44.9	3.1	52	None Detected



# ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

**Client:** Gel Engineering, LLC  
 2040 Savage Road  
 Charleston, SC 29407

**CEI Lab Code:** T15-1500  
**Date Received:** 09-11-15  
**Date Analyzed:** 09-16-15  
**Date Reported:** 09-18-15

**Project:** tob100115

## TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
CM 33-109 T42582	Cream Carpet Mastic	0.281	43.1	24.2	32.7	None Detected
FT 37-121 T42583	Cream, Black Floor Tile	0.415	19.8	66	14.2	None Detected
FT 37-121 T42584	Yellow Mastic	0.101	88.1	9.9	2	<1% Chrysotile
FT 38-124 T42585	Black Mastic	0.1	92	4	4	2% Chrysotile
Probable contamination from positive floor tile.						
CM 39-127 T42586	Yellow Carpet Mastic	0.172	56.4	.6	43	<1% Chrysotile
TB 40-130 T42587	White, Black Toe Board	0.194	52.1	45.4	2.5	None Detected
TB 40-130 T42588	Cream Mastic	0.195	41	49.7	9.3	None Detected
CM 41-133 T42589	Yellow Carpet Mastic	0.208	53.8	43.8	2.4	None Detected
TB 43-139 T42590	Cream Toe Board	0.219	30.1	69.4	.5	None Detected
FT 44-142 T42592	Brown Floor Tile	0.186	32.8	58.6	8.6	None Detected
TBM 45-145 T42593	Brown Mastic	0.199	48.2	4	47.8	None Detected
TB 43-139 T42591	Yellow Mastic	0.238	50.8	5.5	43.7	None Detected



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**LEGEND:** None

---

**METHOD:** CHATFIELD & EPA/600/R-93/116

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**LIMIT OF DETECTION:** Varies with the weight and constituents of the sample (<1%)

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**REGULATORY LIMIT:** >1% by weight

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This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by CEI Labs, Inc. CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client.

**ANALYST:**

*Kamila Reichert*

Kamila Reichert

**APPROVED BY:**

*Tianbao Bai*

Tianbao Bai, Ph.D., CIH  
Laboratory Director



107 New Edition Court, Cary, NC 27511  
 Tel: 866-481-1412; Fax: 919-481-1442

# ASBESTOS CHAIN OF CUSTODY

(143)

LAB USE ONLY:  
 CEI Lab Code: B13 6000  
 CEI Lab I.D. Range: 1379931 1580075

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:26512	Job Contact: Sarah Browning
Company: Gel Engineering, LLC	Email / Tel:
Address: 2040 Savage Road	Project Name:
Charleston, SC 29407	Project ID# <u>106100115</u>
Email: sarah.browning@gel.com	PO #:
Tel: 843-300-4254 Fax:	STATE SAMPLES COLLECTED IN: <u>SC</u>

GENERAL INSTRUCTIONS		
POSITIVE STOP ANALYSIS	<input checked="" type="checkbox"/>	PLM DUE DATE: <u>9 / 16 / 15</u>
ANALYZE NOB'S BY TEM	<input checked="" type="checkbox"/>	TEM DUE DATE: <u>9 / 23 / 15</u>

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
PLM POINT COUNT (400)	EPA 600	<input type="checkbox"/>					
PLM POINT COUNT (1000)	EPA 600	<input type="checkbox"/>					
PLM GRAV w POINT COUNT	EPA 600	<input type="checkbox"/>					
PCM AIR	NIOSH 7400	<input type="checkbox"/>					
TEM AIR AHERA	EPA AHERA	<input type="checkbox"/>					
TEM AIR NIOSH	NIOSH 7402	<input type="checkbox"/>					
TEM BULK	CHATFIELD	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
TEM DUST WIPE	ASTM D6480-05	<input type="checkbox"/>					
TEM DUST MICROVAC	ASTM D5755-09	<input type="checkbox"/>					
TEM SOIL	ASTM D7521-13	<input type="checkbox"/>					
TEM VERMICULITE	CINCINNATI METHOD	<input type="checkbox"/>					
OTHER:		<input type="checkbox"/>					

REMARKS: <u>√ = TEM</u>		<input checked="" type="checkbox"/> Accept Samples
		<input type="checkbox"/> Reject Samples
Relinquished By:	Date/Time	Received By:
<u>GR</u>	<u>9-7-15 1:30 p.m.</u>	<u>YH</u>
	<u>9/11/15 1:00p</u>	<u>9/9/15 9:50c</u>

Samples will be disposed of 30 days after analysis



# ASBESTOS SAMPLING FORM

B15-0004

**COMPANY CONTACT INFORMATION**

Company: <u>GEL Engineering</u>	Job Contact: <u>Scrab Browning</u>
Project Name:	
Project ID #: <u>106100115</u>	Tel: <u>843-300-4254</u>

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST			
RM 1-1	Built Up Roof Material		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
RM 1-2	↓ ↓ ↓ ↓ ↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
✓ RM 1-3	↓ ↓ ↓ ↓ ↓		PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
FT 2-4	Yellow Floor Tile and <sup>2</sup> FT:		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
FT 2-5	Yellow Mastic		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
✓ FT 2-6	↓ ↓ ↓ ↓ ↓		PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
FT 3-7	Yellow Floor Tile, <sup>2</sup> FT:		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
FT 3-8	and Black Mastic		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
✓ FT 3-9	↓ ↓ ↓ ↓ ↓ Mastic only		PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
FT 4-10	Blue Floor Tile and		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
FT 4-11	Black Mastic		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
✓ FT 4-12	↓ ↓ ↓ ↓ ↓		PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
FT 5-13	Green Floor Tile with		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
FT 5-14	Black Mastic		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
✓ FT 5-15	↓ ↓ ↓ ↓ ↓		PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
CT 6-16	2'x4' Wormhole / Pin hole		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
CT 6-17	Ceiling Tile		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
CT 6-18	↓ ↓ ↓ ↓ ↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
DW 7-19	Daywall: Joint Compound		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
DW 7-20	↓ ↓ ↓ ↓ ↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
DW 7-21	↓ ↓ ↓ ↓ ↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
DW 7-22	↓ ↓ ↓ ↓ ↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
DW 7-23	↓ ↓ ↓ ↓ ↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
DW 7-24	↓ ↓ ↓ ↓ ↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
DW 7-25	↓ ↓ ↓ ↓ ↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
TB 8-26	Black Vinyl Toeboard		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
✓ TB 8-27	w/ Yellow Mastic		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
✓ TB 8-28	↓ ↓ ↓ ↓ ↓		PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
<del>SB PL 9-29</del>	<del>Plaster: Base: Skim Coat</del>		<del>PLM</del>	<del><input checked="" type="checkbox"/></del>	<del>TEM</del>	<del><input type="checkbox"/></del>
<del>SB PL 9-30</del>	<del>↓ ↓ ↓ ↓ ↓</del>		<del>PLM</del>	<del><input checked="" type="checkbox"/></del>	<del>TEM</del>	<del><input type="checkbox"/></del>



# ASBESTOS SAMPLING FORM

B13 6006

COMPANY CONTACT INFORMATION	
Company: <u>GEL</u>	Job Contact: <u>Sarah Browning</u>
Project Name:	
Project ID #: <u>100100115</u>	Tel: <u>843-300-4254</u>

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
			PLM	TEM
TB 9-29	Black Vinyl Toeboards	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
TB 9-30	with Yellow Mastic	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ TB 9-31	↓ ↓ ↓ ↓	PLM	<input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
PL 10-32	Plaster: Base + Skim Coat	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PL 10-33	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PL 10-34	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PL 10-35	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PL 10-36	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PL 10-37	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PL 10-38	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 11-39	2'x4' Smooth Ceiling Tile	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 11-40	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 11-41	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
FT 12-42	White with Cream Streaks	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 12-43	Floor Tile and Yellow Mastic	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 12-44	↓ ↓ ↓ ↓	PLM	<input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 13-45	White Floor Tile with	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 13-46	Black Mastic	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 13-47	↓ ↓ ↓ ↓	PLM	<input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 14-48	White w/ Multi colored	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 14-49	Streaks and Cream Mastic	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 14-50	↓ ↓ ↓ ↓	PLM	<input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
PC 15-51	Popcorn ceiling	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PC 15-52	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PC 15-53	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PC 15-54	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PC 15-55	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
		PLM	<input type="checkbox"/>	TEM <input type="checkbox"/>



# ASBESTOS SAMPLING FORM

*B/S Ceo*

COMPANY CONTACT INFORMATION	
Company: <u>GEL Engineering</u>	Job Contact: <u>Sarah Browning</u>
Project Name:	
Project ID #: <u>top100115</u>	Tel: <u>843-300-4254</u>

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
CM 110-56	Yellow Carpet Mastic	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ CM 110-57	↓ ↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ CM 110-58	↓ ↓ ↓ ↓ ↓	PLM	<input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 17-59	Green Floor Tile and	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 17-60	Black Mastic	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 17-61	↓ ↓ ↓ ↓ ↓	PLM	<input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
TB 18-62	White vinyl toeboards	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
TB 18-63	with mastic	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ TB 18-64	↓ ↓ ↓ ↓ ↓	PLM	<input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
CT 19-65	2'x2' Wormhole/Pinhole	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 19-66	Ceiling Tile	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 19-67	↓ ↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 20-68	2'x2' Pinhole Ceiling Tile	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 20-69	↓ ↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 20-70	↓ ↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
DWM 21-71	White Ductwork Mastic	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
DWM 21-72	↓ ↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ DWM 21-73	↓ ↓ ↓ ↓ ↓	PLM	<input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 22-74	White Peel : Stick Floor Tile	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
FT 22-75	↓ ↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 22-76	↓ ↓ ↓ ↓ ↓	PLM	<input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
CT 23-77	2'x2' Smooth Ceiling Tile	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 23-78	↓ ↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 23-79	↓ ↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 24-80	2'x2' Wormhole / Pinhole	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 24-81	Ceiling Tile	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 24-82	↓ ↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
		PLM	<input type="checkbox"/>	TEM <input type="checkbox"/>

\* FT only



# ASBESTOS SAMPLING FORM

*B15 60000*

COMPANY CONTACT INFORMATION	
Company: <u>GEL Engineering</u>	Job Contact: <u>Sarah Browning</u>
Project Name:	
Project ID #: <u>tob100115</u>	Tel: <u>843-300-4254</u>

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST
CM 25-83	Yellow Carpet Mastic	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
CM 25-84	↓ ↓ ↓ ↓ ↓	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
✓ CM 25-85	↓ ↓ ↓ ↓ ↓	PLM	PLM <input type="checkbox"/> TEM <input checked="" type="checkbox"/>
CT 26-86	Smooth Pinhole Ceiling	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
CT 26-87	Tile	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
CT 26-88	↓ ↓ ↓ ↓ ↓	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
SR 27-89	Canvas wrap	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
SR 27-90	↓ ↓ ↓ ↓ ↓	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
SR 27-91	↓ ↓ ↓ ↓ ↓	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
CM 28-92	Yellow Carpet Mastic	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
CM 28-93	↓ ↓ ↓ ↓ ↓	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
✓ CM 28-94	↓ ↓ ↓ ↓ ↓	PLM	PLM <input type="checkbox"/> TEM <input checked="" type="checkbox"/>
FT 29-95	White Floor Tile with	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
FT 29-96	Yellow Mastic	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
✓ FT 29-97	↓ ↓ ↓ ↓ ↓	PLM	PLM <input type="checkbox"/> TEM <input checked="" type="checkbox"/>
FT 30-98	Cream Floor Tile with <sup>FI</sup>	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
FT 30-99	Yellow Mastic } only	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
✓ FT 30-100	↓ ↓ ↓ ↓ ↓	PLM	PLM <input type="checkbox"/> TEM <input checked="" type="checkbox"/>
CM 31-101	Cream Carpet Mastic	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
CM 31-102	↓ ↓ ↓ ↓ ↓	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
✓ CM 31-103	↓ ↓ ↓ ↓ ↓	PLM	PLM <input type="checkbox"/> TEM <input checked="" type="checkbox"/>
CM 32-104	Cream Carpet Mastic	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
CM 32-105	↓ ↓ ↓ ↓ ↓	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
✓ CM 32-106	↓ ↓ ↓ ↓ ↓	PLM	PLM <input type="checkbox"/> TEM <input checked="" type="checkbox"/>
CM 33-107	Cream Carpet Mastic	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
CM 33-108	↓ ↓ ↓ ↓ ↓	PLM	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
✓ CM 33-109	↓ ↓ ↓ ↓ ↓	PLM	PLM <input type="checkbox"/> TEM <input checked="" type="checkbox"/>
		PLM	PLM <input type="checkbox"/> TEM <input type="checkbox"/>



# ASBESTOS SAMPLING FORM

Big Google

COMPANY CONTACT INFORMATION	
Company: <u>GEL Engineering</u>	Job Contact: <u>Sarah Browning</u>
Project Name:	
Project ID #: <u>John 00115</u>	Tel: <u>843-300-4254</u>

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME / AREA	TEST	
			PLM	TEM
PB 34-110	Brown Paper		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PB 34-111	↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PB 34-112	↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CW 35-113	Canvas Wrap		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CW 35-114	↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CW 35-115	↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
FE 36-116	White Mastic		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
FE 36-117	↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FE 36-118	↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 37-119	Cream with Black Dots		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 37-120	Floor Tile and Yellow Mastic		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 37-121	↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 38-122	Cream Floor Tile and		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 38-123	Black Mastic		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 38-124	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
CM 39-125	Yellow Carpet Mastic		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CM 39-126	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ CM 39-127	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
TB 40-128	White vinyl toe boards		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ TB 40-129	with Cream Mastic		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ TB 40-130	↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
CM 41-131	Yellow Carpet Mastic		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CM 41-132	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ CM 41-133	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 42-134	Cream Floor Tile	} PFT: Black Mastic Only	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 42-135	and Black Mastic		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 42-136	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>





September 15, 2015

Gel Engineering, LLC  
2040 Savage Road  
Charleston, SC 29407

**CLIENT PROJECT:** tob100115  
**CEI LAB CODE:** B15-6006

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on September 9, 2015. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

A handwritten signature in black ink, appearing to read "Tianbao Bai".

Tianbao Bai, Ph.D., CIH  
Laboratory Director





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**ASBESTOS ANALYTICAL REPORT**  
**By: Polarized Light Microscopy**

Prepared for

**Gel Engineering, LLC**

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CLIENT PROJECT: tob100115

CEI LAB CODE: B15-6006

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 09/15/15

TOTAL SAMPLES ANALYZED: 103

# SAMPLES >1% ASBESTOS: 15

**TEL: 866-481-1412**

*[www.ceilabs.com](http://www.ceilabs.com)*



# Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: tob100115

CEI LAB CODE: B15-6006

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
RM 1-1	Layer 1	B79931	Black	Built-up Roofing Tar	None Detected
	Layer 2	B79931	Yellow	Built-up Roofing Insulation	None Detected
RM 1-2	Layer 1	B79932	Black	Built-up Roofing Tar	None Detected
	Layer 2	B79932	Yellow	Built-up Roofing Insulation	None Detected
RM 1-3	Layer 1	B79933		Sample Submitted for TEM Analysis	
	Layer 2	B79933	Yellow	Built-up Roofing Insulation	None Detected
FT 2-4		B79934A	Yellow	Floor Tile	None Detected
		B79934B	Yellow	Mastic	None Detected
FT 2-5		B79935A	Yellow	Floor Tile	None Detected
		B79935B	Yellow	Mastic	None Detected
FT 2-6		B79936		Sample Submitted for TEM Analysis	
FT 3-7		B79937A	Yellow	Floor Tile	None Detected
		B79937B	Black	Mastic	Chrysotile 2%
FT 3-8		B79938A	Yellow	Floor Tile	None Detected
		B79938B		Sample Not Analyzed per COC	
FT 3-9		B79939A		Sample Submitted for TEM Analysis	
		B79939B		Sample Not Analyzed per COC	
FT 4-10		B79940A	Blue	Floor Tile	Chrysotile 5%
		B79940B	Black	Mastic	Chrysotile 5%
FT 4-11		B79941		Sample Not Analyzed per COC	
FT 4-12		B79942		Sample Not Analyzed per COC	
FT 5-13		B79943A	Green	Floor Tile	Chrysotile 10%
		B79943A	Black	Mastic	Chrysotile 5%
FT 5-14		B79944		Sample Not Analyzed per COC	
FT 5-15		B79945		Sample Not Analyzed per COC	
CT 6-16		B79946	White	Ceiling Tile	None Detected
CT 6-17		B79947	White	Ceiling Tile	None Detected
CT 6-18		B79948	White	Ceiling Tile	None Detected
DW 7-19	Layer 1	B79949	White	Drywall	None Detected



# Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: tob100115

CEI LAB CODE: B15-6006

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
	Layer 2	B79949	White	Joint Compound	None Detected
DW 7-20	Layer 1	B79950	White	Drywall	None Detected
	Layer 2	B79950	White	Joint Compound	None Detected
DW 7-21	Layer 1	B79951	White	Drywall	None Detected
	Layer 2	B79951	White	Joint Compound	None Detected
DW 7-22	Layer 1	B79952	White	Drywall	None Detected
	Layer 2	B79952	White	Joint Compound	None Detected
DW 7-23	Layer 1	B79953	White	Drywall	None Detected
	Layer 2	B79953	White	Joint Compound	None Detected
DW 7-24	Layer 1	B79954	White	Drywall	None Detected
	Layer 2	B79954	White	Joint Compound	None Detected
DW 7-25	Layer 1	B79955	White	Drywall	None Detected
	Layer 2	B79955	White	Joint Compound	None Detected
TB 8-26		B79956A	Black	Toe Board	None Detected
		B79956B	Yellow	Mastic	None Detected
TB 8-27		B79957A	Black	Toe Board	None Detected
		B79957B	Yellow	Mastic	None Detected
TB 8-28		B79958		Sample Submitted for TEM Analysis	
TB 9-29		B79959A	Black	Toe Board	None Detected
		B79959B	Yellow,Brown	Mastic	None Detected
TB 9-30		B79960A	Black	Toe Board	None Detected
		B79960B	Yellow,Brown	Mastic	None Detected
TB 9-31		B79961		Sample Submitted for TEM Analysis	
PL 10-32	Layer 1	B79962	Off-white	Plaster Skim Coat	<b>Chrysotile 10%</b>
	Layer 2	B79962	Gray	Plaster Base Coat	None Detected
PL 10-33		B79963		Sample Not Analyzed per COC	
PL 10-34		B79964		Sample Not Analyzed per COC	
PL 10-35		B79965		Sample Not Analyzed per COC	
PL 10-36		B79966		Sample Not Analyzed per COC	
PL 10-37		B79967		Sample Not Analyzed per COC	



# Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: tob100115

CEI LAB CODE: B15-6006

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
PL 10-38		B79968		Sample Not Analyzed per COC	
CT 11-39		B79969	White	Ceiling Tile	None Detected
CT 11-40		B79970	White	Ceiling Tile	None Detected
CT 11-41		B79971	White	Ceiling Tile	None Detected
FT 12-42	Layer 1	B79972A	Yellow	Surface Mastic	Chrysotile 2%
	Layer 2	B79972A	White,Cream	Floor Tile	Chrysotile 7%
		B79972B	Black	Mastic	Chrysotile 5%
FT 12-43		B79973		Sample Not Analyzed per COC	
FT 12-44		B79974		Sample Not Analyzed per COC	
FT 13-45		B79975A	White	Floor Tile	None Detected
		B79975B	Tan	Mastic	Chrysotile <1%
FT 13-46		B79976A	White	Floor Tile	None Detected
		B79976B	Tan	Mastic	Chrysotile <1%
FT 13-47		B79977		Sample Submitted for TEM Analysis	
FT 14-48		B79978A	White,Beige	Floor Tile	None Detected
		B79978B	Cream	Mastic	Chrysotile <1%
FT 14-49		B79979A	White,Beige	Floor Tile	None Detected
		B79979B	Cream	Mastic	Chrysotile <1%
FT 14-50		B79980		Sample Submitted for TEM Analysis	
PC 15-51		B79981	White	Popcorn Ceiling	None Detected
PC 15-52		B79982	White	Popcorn Ceiling	None Detected
PC 15-53		B79983	White	Popcorn Ceiling	None Detected
PC 15-54		B79984	White	Popcorn Ceiling	None Detected
PC 15-55		B79985	White	Popcorn Ceiling	None Detected
CM 16-56		B79986	Yellow	Carpet Mastic	None Detected
CM 16-57		B79987	Yellow	Carpet Mastic	None Detected
CM 16-58		B79988		Sample Submitted for TEM Analysis	
FT 17-59		B79989A	Green	Floor Tile	Chrysotile 10%
		B79989B	Black	Mastic	Chrysotile 5%



# Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: tob100115

CEI LAB CODE: B15-6006

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
FT 17-60		B79990		Sample Not Analyzed per COC	
FT 17-61		B79991		Sample Not Analyzed per COC	
TB 18-62		B79992A	White	Toe Board	None Detected
		B79992B	Yellow	Mastic	None Detected
TB 18-63		B79993A	White	Toe Board	None Detected
		B79993B	Yellow	Mastic	None Detected
TB 18-64		B79994		Sample Submitted for TEM Analysis	
CT 19-65		B79995	White	Ceiling Tile	None Detected
CT 19-66		B79996	White	Ceiling Tile	None Detected
CT 19-67		B79997	White	Ceiling Tile	None Detected
CT 20-68		B79998	White	Ceiling Tile	None Detected
CT 20-69		B79999	White	Ceiling Tile	None Detected
CT 20-70		B80000	White	Ceiling Tile	None Detected
DWM 21-71	Layer 1	B80001	White	Ductwork Mastic	None Detected
	Layer 2	B80001	Yellow	Insulation	None Detected
DWM 21-72	Layer 1	B80002	White	Ductwork Mastic	None Detected
	Layer 2	B80002	Yellow	Insulation	None Detected
DWM 21-73	Layer 1	B80003		Sample Submitted for TEM Analysis	
	Layer 2	B80003	Yellow	Insulation	None Detected
FT 22-74		B80004	White	Floor Tile	None Detected
FT 22-75		B80005	White	Floor Tile	None Detected
FT 22-76		B80006		Sample Submitted for TEM Analysis	
CT 23-77		B80007	White	Ceiling Tile	None Detected
CT 23-78		B80008	White	Ceiling Tile	None Detected
CT 23-79		B80009	White	Ceiling Tile	None Detected
CT 24-80		B80010	White	Ceiling Tile	None Detected
CT 24-81		B80011	White	Ceiling Tile	None Detected
CT 24-82		B80012	White	Ceiling Tile	None Detected
CM 25-83		B80013	Yellow	Carpet Mastic	None Detected



# Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: tob100115

CEI LAB CODE: B15-6006

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
CM 25-84		B80014	Yellow	Carpet Mastic	None Detected
CM 25-85		B80015		Sample Submitted for TEM Analysis	
CT 26-86		B80016	White, Yellow	Ceiling Tile	None Detected
CT 26-87		B80017	White, Yellow	Ceiling Tile	None Detected
CT 26-88		B80018	White, Yellow	Ceiling Tile	None Detected
SR 27-89		B80019	White, Silver	Canvas Wrap	None Detected
SR 27-90		B80020	White, Silver	Canvas Wrap	None Detected
SR 27-91		B80021	White, Silver	Canvas Wrap	None Detected
CM 28-92		B80022	Yellow	Carpet Mastic	None Detected
CM 28-93		B80023	Yellow	Carpet Mastic	None Detected
CM 28-94		B80024		Sample Submitted for TEM Analysis	
FT 29-95		B80025A	White	Floor Tile	None Detected
		B80025B	Yellow	Mastic	None Detected
FT 29-96		B80026A	White	Floor Tile	None Detected
		B80026B	Yellow	Mastic	None Detected
FT 29-97		B80027		Sample Submitted for TEM Analysis	
FT 30-98		B80028	Cream	Floor Tile	None Detected
FT 30-99		B80029	Cream	Floor Tile	None Detected
FT 30-100		B80030		Sample Submitted for TEM Analysis	
CM 31-101		B80031	Cream	Carpet Mastic	None Detected
CM 31-102		B80032	Cream	Carpet Mastic	None Detected
CM 31-103		B80033		Sample Submitted for TEM Analysis	
CM 32-104		B80034	Cream	Carpet Mastic	None Detected
CM 32-105		B80035	Cream	Carpet Mastic	None Detected
CM 32-106		B80036		Sample Submitted for TEM Analysis	
CM 33-107		B80037	Cream	Carpet Mastic	None Detected
CM 33-108		B80038	Cream	Carpet Mastic	None Detected



# Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: tob100115

CEI LAB CODE: B15-6006

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
CM 33-109		B80039		Sample Submitted for TEM Analysis	
PB 34-110		B80040	Brown	Paper	None Detected
PB 34-111		B80041	Brown	Paper	None Detected
PB 34-112		B80042	Brown	Paper	None Detected
CW 35-113		B80043	White	Canvas Wrap	None Detected
CW 35-114		B80044	White	Canvas Wrap	None Detected
CW 35-115		B80045	White	Canvas Wrap	None Detected
FE 36-116		B80046	White	Mastic	Chrysotile 5%
FE 36-117		B80047		Sample Not Analyzed per COC	
FE 36-118		B80048		Sample Not Analyzed per COC	
FT 37-119		B80049A	Cream,Black	Floor Tile	None Detected
		B80049B	Yellow	Mastic	None Detected
FT 37-120		B80050A	Cream,Black	Floor Tile	None Detected
		B80050B	Yellow	Mastic	None Detected
FT 37-121		B80051		Sample Submitted for TEM Analysis	
FT 38-122		B80052A	Cream	Floor Tile	Chrysotile 5%
		B80052B	Black	Mastic	None Detected
FT 38-123		B80053A		Sample Not Analyzed per COC	
		B80053B	Black	Mastic	None Detected
FT 38-124		B80054A		Sample Not Analyzed per COC	
		B80054B		Sample Submitted for TEM Analysis	
CM 39-125		B80055	Yellow	Carpet Mastic	None Detected
CM 39-126		B80056	Yellow	Carpet Mastic	None Detected
CM 39-127		B80057		Sample Submitted for TEM Analysis	
TB 40-128		B80058A	White,Black	Toe Board	None Detected
		B80058B	Cream	Mastic	None Detected
TB 40-129		B80059A	White,Black	Toe Board	None Detected
		B80059B	Cream	Mastic	None Detected



# Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: tob100115

CEI LAB CODE: B15-6006

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
TB 40-130		B80060		Sample Submitted for TEM Analysis	
CM 41-131		B80061	Yellow	Carpet Mastic	None Detected
CM 41-132		B80062	Yellow	Carpet Mastic	None Detected
CM 41-133		B80063		Sample Submitted for TEM Analysis	
FT 42-134		B80064A	Cream	Floor Tile	Chrysotile 5%
		B80064B	Black	Mastic	Chrysotile 5%
FT 42-135		B80065		Sample Not Analyzed per COC	
FT 42-136		B80066		Sample Not Analyzed per COC	
TB 43-137		B80067A	Cream	Toe Board	None Detected
		B80067B	Yellow	Mastic	None Detected
TB 43-138		B80068A	Cream	Toe Board	None Detected
		B80068B	Yellow	Mastic	None Detected
TB 43-139		B80069		Sample Submitted for TEM Analysis	
FT 44-140		B80070	Brown	Floor Tile	None Detected
FT 44-141		B80071	Brown	Floor Tile	None Detected
FT 44-142		B80072		Sample Submitted for TEM Analysis	
TBM 45-143		B80073	Brown	Mastic	None Detected
TBM 45-144		B80074	Brown	Mastic	None Detected
TBM 45-145		B80075		Sample Submitted for TEM Analysis	



# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** Gel Engineering, LLC  
 2040 Savage Road  
 Charleston, SC 29407

**CEI Lab Code:** B15-6006  
**Date Received:** 09-09-15  
**Date Analyzed:** 09-10-15  
**Date Reported:** 09-15-15

**Project:** tob100115

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous	Non-Fibrous		
<b>RM 1-1</b> Layer 1 B79931	Built-up Roofing Tar	Heterogeneous Black Fibrous Bound	35%	Cellulose	60% Tar 5% Silicates	<b>None Detected</b>
Layer 2 B79931	Built-up Roofing Insulation	Heterogeneous Yellow Non-fibrous Bound			100% Foam	<b>None Detected</b>
<b>RM 1-2</b> Layer 1 B79932	Built-up Roofing Tar	Heterogeneous Black Fibrous Bound	35%	Cellulose	60% Tar 5% Silicates	<b>None Detected</b>
Layer 2 B79932	Built-up Roofing Insulation	Heterogeneous Yellow Non-fibrous Bound			100% Foam	<b>None Detected</b>
<b>RM 1-3</b> Layer 1 B79933	Sample Submitted for TEM Analysis					
Layer 2 B79933	Built-up Roofing Insulation	Heterogeneous Yellow Non-fibrous Bound			100% Foam	<b>None Detected</b>
<b>FT 2-4</b> B79934A	Floor Tile	Heterogeneous Yellow Non-fibrous Bound			80% Vinyl 20% Calc Carb	<b>None Detected</b>
B79934B	Mastic	Heterogeneous Yellow Non-fibrous Bound			100% Mastic	<b>None Detected</b>



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			Fibrous	Non-Fibrous	
FT 2-5 B79935A	Floor Tile	Heterogeneous	80%	Vinyl	None Detected
		Yellow Non-fibrous Bound	20%	Calc Carb	
B79935B	Mastic	Heterogeneous Yellow Non-fibrous Bound	100%	Mastic	None Detected
FT 2-6 B79936	Sample Submitted for TEM Analysis				
FT 3-7 B79937A	Floor Tile	Heterogeneous	80%	Vinyl	None Detected
		Yellow Non-fibrous Bound	20%	Calc Carb	
B79937B	Mastic	Heterogeneous Black Fibrous Bound	98%	Mastic	2% Chrysotile
FT 3-8 B79938A	Floor Tile	Heterogeneous	80%	Vinyl	None Detected
		Yellow Non-fibrous Bound	20%	Calc Carb	
B79938B	Sample Not Analyzed per COC				
FT 3-9 B79939A	Sample Submitted for TEM Analysis				
B79939B	Sample Not Analyzed per COC				



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			Fibrous	Non-Fibrous			
FT 4-10 B79940A	Floor Tile	Heterogeneous Blue Fibrous Bound	75%	Vinyl		<b>5% Chrysotile</b>	
			20%	Calc Carb			
B79940B	Mastic	Heterogeneous Black Fibrous Bound	95%	Mastic		<b>5% Chrysotile</b>	
FT 4-11 B79941	Sample Not Analyzed per COC						
FT 4-12 B79942	Sample Not Analyzed per COC						
FT 5-13 B79943A	Floor Tile	Heterogeneous Green Fibrous Bound	70%	Vinyl		<b>10% Chrysotile</b>	
			20%	Calc Carb			
B79943A	Mastic	Heterogeneous Black Fibrous Bound	95%	Mastic		<b>5% Chrysotile</b>	
FT 5-14 B79944	Sample Not Analyzed per COC						
FT 5-15 B79945	Sample Not Analyzed per COC						
CT 6-16 B79946	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	35%	Cellulose	5%	Paint	<b>None Detected</b>
			35%	Fiberglass	25%	Perlite	



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			Fibrous		Non-Fibrous		
<b>CT 6-17</b> B79947	Ceiling Tile	Heterogeneous	35%	Cellulose	5%	Paint	<b>None Detected</b>
		White	35%	Fiberglass	25%	Perlite	
		Fibrous Loosely Bound					
<b>CT 6-18</b> B79948	Ceiling Tile	Heterogeneous	35%	Cellulose	5%	Paint	<b>None Detected</b>
		White	35%	Fiberglass	25%	Perlite	
		Fibrous Loosely Bound					
<b>DW 7-19</b> Layer 1 B79949	Drywall	Heterogeneous	10%	Cellulose	90%	Gypsum	<b>None Detected</b>
		White					
		Fibrous Bound					
Layer 2 B79949	Joint Compound	Heterogeneous			5%	Paint	<b>None Detected</b>
		White			50%	Binder	
		Non-fibrous Bound			45%	Calc Carb	
<b>DW 7-20</b> Layer 1 B79950	Drywall	Heterogeneous	10%	Cellulose	90%	Gypsum	<b>None Detected</b>
		White					
		Fibrous Bound					
Layer 2 B79950	Joint Compound	Heterogeneous			5%	Paint	<b>None Detected</b>
		White			50%	Binder	
		Non-fibrous Bound			45%	Calc Carb	
<b>DW 7-21</b> Layer 1 B79951	Drywall	Heterogeneous	10%	Cellulose	90%	Gypsum	<b>None Detected</b>
		White					
		Fibrous Bound					



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			Fibrous		Non-Fibrous				
Layer 2 B79951	Joint Compound	Heterogeneous White Non-fibrous Bound	5%	Paint	50%	Binder	45%	Calc Carb	<b>None Detected</b>
<b>DW 7-22</b> Layer 1 B79952	Drywall	Heterogeneous White Fibrous Bound	10%	Cellulose	90%	Gypsum			<b>None Detected</b>
Layer 2 B79952	Joint Compound	Heterogeneous White Non-fibrous Bound	5%	Paint	50%	Binder	45%	Calc Carb	<b>None Detected</b>
<b>DW 7-23</b> Layer 1 B79953	Drywall	Heterogeneous White Fibrous Bound	10%	Cellulose	90%	Gypsum			<b>None Detected</b>
Layer 2 B79953	Joint Compound	Heterogeneous White Non-fibrous Bound	5%	Paint	50%	Binder	45%	Calc Carb	<b>None Detected</b>
<b>DW 7-24</b> Layer 1 B79954	Drywall	Heterogeneous White Fibrous Bound	10%	Cellulose	90%	Gypsum			<b>None Detected</b>
Layer 2 B79954	Joint Compound	Heterogeneous White Non-fibrous Bound	5%	Paint	50%	Binder	45%	Calc Carb	<b>None Detected</b>



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Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
<b>DW 7-25</b> Layer 1 B79955	Drywall	Heterogeneous White Fibrous Bound	10%	Cellulose	90%	Gypsum	<b>None Detected</b>
Layer 2 B79955	Joint Compound	Heterogeneous White Non-fibrous Bound			5%	Paint	<b>None Detected</b>
					50%	Binder	
					45%	Calc Carb	
<b>TB 8-26</b> B79956A	Toe Board	Heterogeneous Black Non-fibrous Bound			100%	Vinyl	<b>None Detected</b>
B79956B	Mastic	Heterogeneous Yellow Non-fibrous Bound			100%	Mastic	<b>None Detected</b>
<b>TB 8-27</b> B79957A	Toe Board	Heterogeneous Black Non-fibrous Bound			100%	Vinyl	<b>None Detected</b>
B79957B	Mastic	Heterogeneous Yellow Non-fibrous Bound			100%	Mastic	<b>None Detected</b>
<b>TB 8-28</b> B79958	Sample Submitted for TEM Analysis						
<b>TB 9-29</b> B79959A	Toe Board	Heterogeneous Black Non-fibrous Bound			100%	Vinyl	<b>None Detected</b>



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Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
B79959B	Mastic	Heterogeneous Yellow,Brown Non-fibrous Bound	100%	Mastic	None Detected
<b>TB 9-30</b> B79960A	Toe Board	Heterogeneous Black Non-fibrous Bound	100%	Vinyl	None Detected
B79960B	Mastic	Heterogeneous Yellow,Brown Non-fibrous Bound	100%	Mastic	None Detected
<b>TB 9-31</b> B79961	Sample Submitted for TEM Analysis				
<b>PL 10-32</b> Layer 1 B79962	Plaster Skim Coat	Heterogeneous Off-white Fibrous Bound	5% 60% 25%	Paint Binder Vermiculite	<b>10% Chrysotile</b>
Layer 2 B79962	Plaster Base Coat	Heterogeneous Gray Non-fibrous Bound	50% 25% 25%	Binder Vermiculite Silicates	None Detected
<b>PL 10-33</b> B79963	Sample Not Analyzed per COC				
<b>PL 10-34</b> B79964	Sample Not Analyzed per COC				
<b>PL 10-35</b> B79965	Sample Not Analyzed per COC				
<b>PL 10-36</b> B79966	Sample Not Analyzed per COC				



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Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
<b>PL 10-37</b> B79967	Sample Not Analyzed per COC						
<b>PL 10-38</b> B79968	Sample Not Analyzed per COC						
<b>CT 11-39</b> B79969	Ceiling Tile	Heterogeneous White Fibrous Bound	10% <1%	Cellulose Fiberglass	85% 5%	Gypsum Vinyl	<b>None Detected</b>
<b>CT 11-40</b> B79970	Ceiling Tile	Heterogeneous White Fibrous Bound	10% <1%	Cellulose Fiberglass	85% 5%	Gypsum Vinyl	<b>None Detected</b>
<b>CT 11-41</b> B79971	Ceiling Tile	Heterogeneous White Fibrous Bound	10% <1%	Cellulose Fiberglass	85% 5%	Gypsum Vinyl	<b>None Detected</b>
<b>FT 12-42</b> Layer 1 B79972A	Surface Mastic	Heterogeneous Yellow Fibrous Bound			98%	Mastic	<b>2% Chrysotile</b>
Lab Notes: Probable contamination from positive floor tile.							
Layer 2 B79972A	Floor Tile	Heterogeneous White, Cream Fibrous Bound			73% 20%	Vinyl Calc Carb	<b>7% Chrysotile</b>
B79972B	Mastic	Heterogeneous Black Fibrous Bound			95%	Mastic	<b>5% Chrysotile</b>

Lab Notes: No yellow mastic present under tile.



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## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
<b>FT 12-43</b> B79973	Sample Not Analyzed per COC				
<b>FT 12-44</b> B79974	Sample Not Analyzed per COC				
<b>FT 13-45</b> B79975A	Floor Tile	Heterogeneous White Non-fibrous Bound	80% 20%	Vinyl Caulk	<b>None Detected</b>
B79975B	Mastic	Heterogeneous Tan Non-fibrous Bound	100%	Mastic	<b>&lt;1% Chrysotile</b>
Lab Notes: Small flecks of black mastic insufficient for analysis.					
<b>FT 13-46</b> B79976A	Floor Tile	Heterogeneous White Non-fibrous Bound	80% 20%	Vinyl Caulk	<b>None Detected</b>
B79976B	Mastic	Heterogeneous Tan Non-fibrous Bound	100%	Mastic	<b>&lt;1% Chrysotile</b>
Lab Notes: Small flecks of black mastic insufficient for analysis.					
<b>FT 13-47</b> B79977	Sample Submitted for TEM Analysis				
<b>FT 14-48</b> B79978A	Floor Tile	Heterogeneous White, Beige Non-fibrous Bound	80% 20%	Vinyl Caulk	<b>None Detected</b>



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			Fibrous		Non-Fibrous	
B79978B	Mastic	Heterogeneous Cream Non-fibrous Bound	100%		Mastic	<1% Chrysotile
Lab Notes: Small flecks of black mastic insufficient for analysis.						
<b>FT 14-49</b> B79979A	Floor Tile	Heterogeneous White, Beige Non-fibrous Bound	80%		Vinyl Caulk	None Detected
B79979B	Mastic	Heterogeneous Cream Non-fibrous Bound	100%		Mastic	<1% Chrysotile
Lab Notes: Small flecks of black mastic insufficient for analysis.						
<b>FT 14-50</b> B79980	Sample Submitted for TEM Analysis					
<b>PC 15-51</b> B79981	Popcorn Ceiling	Heterogeneous White Fibrous Loosely Bound	85%	Cellulose	15% Binder	None Detected
<b>PC 15-52</b> B79982	Popcorn Ceiling	Heterogeneous White Fibrous Loosely Bound	85%	Cellulose	15% Binder	None Detected
<b>PC 15-53</b> B79983	Popcorn Ceiling	Heterogeneous White Fibrous Loosely Bound	85%	Cellulose	15% Binder	None Detected



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			Fibrous		Non-Fibrous		
<b>PC 15-54</b> B79984	Popcorn Ceiling	Heterogeneous White Fibrous Loosely Bound	85%	Cellulose	15%	Binder	<b>None Detected</b>
<b>PC 15-55</b> B79985	Popcorn Ceiling	Heterogeneous White Fibrous Loosely Bound	85%	Cellulose	15%	Binder	<b>None Detected</b>
<b>CM 16-56</b> B79986	Carpet Mastic	Heterogeneous Yellow Fibrous Bound	2%	Synthetic Fiber	98%	Mastic	<b>None Detected</b>
<b>CM 16-57</b> B79987	Carpet Mastic	Heterogeneous Yellow Fibrous Bound	2%	Synthetic Fiber	98%	Mastic	<b>None Detected</b>
<b>CM 16-58</b> B79988	Sample Submitted for TEM Analysis						
<b>FT 17-59</b> B79989A	Floor Tile	Heterogeneous Green Fibrous Bound			70%	Vinyl	<b>10% Chrysotile</b>
					20%	Calc Carb	
B79989B	Mastic	Heterogeneous Black Fibrous Bound			95%	Mastic	<b>5% Chrysotile</b>
<b>FT 17-60</b> B79990	Sample Not Analyzed per COC						
<b>FT 17-61</b> B79991	Sample Not Analyzed per COC						



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			Fibrous		Non-Fibrous		
<b>TB 18-62</b> B79992A	Toe Board	Heterogeneous White Non-fibrous Bound	100%		Vinyl		<b>None Detected</b>
B79992B	Mastic	Heterogeneous Yellow Non-fibrous Bound	100%		Mastic		<b>None Detected</b>
<b>TB 18-63</b> B79993A	Toe Board	Heterogeneous White Non-fibrous Bound	100%		Vinyl		<b>None Detected</b>
B79993B	Mastic	Heterogeneous Yellow Non-fibrous Bound	100%		Mastic		<b>None Detected</b>
<b>TB 18-64</b> B79994	Sample Submitted for TEM Analysis						
<b>CT 19-65</b> B79995	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	35%	Cellulose	5%	Paint	<b>None Detected</b>
			35%	Fiberglass	25%	Perlite	
<b>CT 19-66</b> B79996	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	35%	Cellulose	5%	Paint	<b>None Detected</b>
			35%	Fiberglass	25%	Perlite	
<b>CT 19-67</b> B79997	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	35%	Cellulose	5%	Paint	<b>None Detected</b>
			35%	Fiberglass	25%	Perlite	



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			Fibrous		Non-Fibrous		
<b>CT 20-68</b> B79998	Ceiling Tile	Heterogeneous	50%	Cellulose	5%	Paint	<b>None Detected</b>
		White Fibrous Loosely Bound	20%	Fiberglass	25%	Perlite	
<b>CT 20-69</b> B79999	Ceiling Tile	Heterogeneous	50%	Cellulose	5%	Paint	<b>None Detected</b>
		White Fibrous Loosely Bound	20%	Fiberglass	25%	Perlite	
<b>CT 20-70</b> B80000	Ceiling Tile	Heterogeneous	50%	Cellulose	5%	Paint	<b>None Detected</b>
		White Fibrous Loosely Bound	20%	Fiberglass	25%	Perlite	
<b>DWM 21-71</b> Layer 1 B80001	Ductwork Mastic	Heterogeneous	5%	Cellulose	85%	Mastic	<b>None Detected</b>
		White Fibrous Bound			10%	Silicates	
Layer 2 B80001	Insulation	Heterogeneous	100%	Fiberglass			<b>None Detected</b>
<b>DWM 21-72</b> Layer 1 B80002	Ductwork Mastic	Heterogeneous	5%	Cellulose	85%	Mastic	<b>None Detected</b>
		White Fibrous Bound			10%	Silicates	
Layer 2 B80002	Insulation	Heterogeneous	100%	Fiberglass			<b>None Detected</b>
<b>DWM 21-73</b> Layer 1 B80003	Sample Submitted for TEM Analysis	Heterogeneous					<b>None Detected</b>
		Yellow Fibrous Loose					



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			Fibrous	Non-Fibrous		
Layer 2 B80003	Insulation	Heterogeneous Yellow Fibrous Loose	100%	Fiberglass		<b>None Detected</b>
<b>FT 22-74</b> B80004	Floor Tile	Heterogeneous White Non-fibrous Bound	75%	Vinyl	25%	Calc Carb <b>None Detected</b>
<b>FT 22-75</b> B80005	Floor Tile	Heterogeneous White Non-fibrous Bound	75%	Vinyl	25%	Calc Carb <b>None Detected</b>
<b>FT 22-76</b> B80006	Sample Submitted for TEM Analysis					
<b>CT 23-77</b> B80007	Ceiling Tile	Heterogeneous White Fibrous Bound	10% <1%	Cellulose Fiberglass	5% 85%	Vinyl Gypsum <b>None Detected</b>
<b>CT 23-78</b> B80008	Ceiling Tile	Heterogeneous White Fibrous Bound	10% <1%	Cellulose Fiberglass	5% 85%	Vinyl Gypsum <b>None Detected</b>
<b>CT 23-79</b> B80009	Ceiling Tile	Heterogeneous White Fibrous Bound	10% <1%	Cellulose Fiberglass	5% 85%	Vinyl Gypsum <b>None Detected</b>
<b>CT 24-80</b> B80010	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	35% 35%	Cellulose Fiberglass	5% 25%	Paint Perlite <b>None Detected</b>



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Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
<b>CT 24-81</b> B80011	Ceiling Tile	Heterogeneous	35%	Cellulose	5%	Paint	<b>None Detected</b>
		White	35%	Fiberglass	25%	Perlite	
		Fibrous Loosely Bound					
<b>CT 24-82</b> B80012	Ceiling Tile	Heterogeneous	35%	Cellulose	5%	Paint	<b>None Detected</b>
		White	35%	Fiberglass	25%	Perlite	
		Fibrous Loosely Bound					
<b>CM 25-83</b> B80013	Carpet Mastic	Heterogeneous	2%	Synthetic Fiber	88%	Mastic	<b>None Detected</b>
		Yellow			10%	Binder	
		Fibrous Bound					
<b>CM 25-84</b> B80014	Carpet Mastic	Heterogeneous	2%	Synthetic Fiber	88%	Mastic	<b>None Detected</b>
		Yellow			10%	Binder	
		Fibrous Bound					
<b>CM 25-85</b> B80015	Sample Submitted for TEM Analysis						
<b>CT 26-86</b> B80016	Ceiling Tile	Heterogeneous	95%	Fiberglass	5%	Paint	<b>None Detected</b>
		White, Yellow					
		Fibrous Loosely Bound					
<b>CT 26-87</b> B80017	Ceiling Tile	Heterogeneous	95%	Fiberglass	5%	Paint	<b>None Detected</b>
		White, Yellow					
		Fibrous Loosely Bound					
<b>CT 26-88</b> B80018	Ceiling Tile	Heterogeneous	95%	Fiberglass	5%	Paint	<b>None Detected</b>
		White, Yellow					
		Fibrous Loosely Bound					



# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** Gel Engineering, LLC  
 2040 Savage Road  
 Charleston, SC 29407

**CEI Lab Code:** B15-6006  
**Date Received:** 09-09-15  
**Date Analyzed:** 09-10-15  
**Date Reported:** 09-15-15

**Project:** tob100115

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
<b>SR 27-89</b> B80019	Canvas Wrap	Heterogeneous White, Silver Fibrous Loosely Bound	85%	Cellulose	10%	Metal Foil Binder	<b>None Detected</b>
<b>SR 27-90</b> B80020	Canvas Wrap	Heterogeneous White, Silver Fibrous Loosely Bound	85%	Cellulose	10%	Metal Foil Binder	<b>None Detected</b>
<b>SR 27-91</b> B80021	Canvas Wrap	Heterogeneous White, Silver Fibrous Loosely Bound	85%	Cellulose	10%	Metal Foil Binder	<b>None Detected</b>
<b>CM 28-92</b> B80022	Carpet Mastic	Heterogeneous Yellow Fibrous Bound	2%	Synthetic Fiber	98%	Mastic	<b>None Detected</b>
<b>CM 28-93</b> B80023	Carpet Mastic	Heterogeneous Yellow Fibrous Bound	2%	Synthetic Fiber	98%	Mastic	<b>None Detected</b>
<b>CM 28-94</b> B80024	Sample Submitted for TEM Analysis						
<b>FT 29-95</b> B80025A	Floor Tile	Heterogeneous White Non-fibrous Bound			80%	Vinyl Calc Carb	<b>None Detected</b>
B80025B	Mastic	Heterogeneous Yellow Non-fibrous Bound			100%	Mastic	<b>None Detected</b>



# ASBESTOS BULK ANALYSIS

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**Project:** tob100115

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
<b>FT 29-96</b> B80026A	Floor Tile	Heterogeneous White Non-fibrous Bound	80% 20%	Vinyl Calc Carb	<b>None Detected</b>
B80026B	Mastic	Heterogeneous Yellow Non-fibrous Bound	100%	Mastic	<b>None Detected</b>
<b>FT 29-97</b> B80027	Sample Submitted for TEM Analysis				
<b>FT 30-98</b> B80028	Floor Tile	Heterogeneous Cream Non-fibrous Bound	80% 20%	Vinyl Calc Carb	<b>None Detected</b>
<b>FT 30-99</b> B80029	Floor Tile	Heterogeneous Cream Non-fibrous Bound	80% 20%	Vinyl Calc Carb	<b>None Detected</b>
<b>FT 30-100</b> B80030	Sample Submitted for TEM Analysis				
<b>CM 31-101</b> B80031	Carpet Mastic	Heterogeneous Cream Non-fibrous Bound	100%	Mastic	<b>None Detected</b>
<b>CM 31-102</b> B80032	Carpet Mastic	Heterogeneous Cream Non-fibrous Bound	100%	Mastic	<b>None Detected</b>
<b>CM 31-103</b> B80033	Sample Submitted for TEM Analysis				



# ASBESTOS BULK ANALYSIS

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**Project:** tob100115

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous	Non-Fibrous		
<b>CM 32-104</b> B80034	Carpet Mastic	Heterogeneous Cream Non-fibrous Bound	100%	Mastic		<b>None Detected</b>
<b>CM 32-105</b> B80035	Carpet Mastic	Heterogeneous Cream Non-fibrous Bound	100%	Mastic		<b>None Detected</b>
<b>CM 32-106</b> B80036	Sample Submitted for TEM Analysis					
<b>CM 33-107</b> B80037	Carpet Mastic	Heterogeneous Cream Fibrous Bound	5%	Synthetic Fiber 95%	Mastic	<b>None Detected</b>
<b>CM 33-108</b> B80038	Carpet Mastic	Heterogeneous Cream Fibrous Bound	5%	Synthetic Fiber 95%	Mastic	<b>None Detected</b>
<b>CM 33-109</b> B80039	Sample Submitted for TEM Analysis					
<b>PB 34-110</b> B80040	Paper	Heterogeneous Brown Fibrous Loosely Bound	85%	Cellulose 5%	Metal Foil 10%	<b>None Detected</b>
<b>PB 34-111</b> B80041	Paper	Heterogeneous Brown Fibrous Loosely Bound	85%	Cellulose 5%	Metal Foil 10%	<b>None Detected</b>



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## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
<b>PB 34-112</b> B80042	Paper	Heterogeneous Brown Fibrous Loosely Bound	85%	Cellulose	5%	Metal Foil Binder	<b>None Detected</b>
<b>CW 35-113</b> B80043	Canvas Wrap	Heterogeneous White Fibrous Bound	70%	Cellulose	5%	Metal Foil Binder	<b>None Detected</b>
<b>CW 35-114</b> B80044	Canvas Wrap	Heterogeneous White Fibrous Bound	70%	Cellulose	5%	Metal Foil Binder	<b>None Detected</b>
<b>CW 35-115</b> B80045	Canvas Wrap	Heterogeneous White Fibrous Bound	70%	Cellulose	5%	Metal Foil Binder	<b>None Detected</b>
<b>FE 36-116</b> B80046	Mastic	Heterogeneous White Fibrous Bound	20%	Fiberglass	75%	Binder	<b>5% Chrysotile</b>
<b>FE 36-117</b> B80047	Sample Not Analyzed per COC						
<b>FE 36-118</b> B80048	Sample Not Analyzed per COC						
<b>FT 37-119</b> B80049A	Floor Tile	Heterogeneous Cream,Black Non-fibrous Bound			80%	Vinyl Calc Carb	<b>None Detected</b>



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**Project:** tob100115

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
B80049B	Mastic	Heterogeneous Yellow Non-fibrous Bound	100%	Mastic	None Detected
<b>FT 37-120</b> B80050A	Floor Tile	Heterogeneous Cream,Black Non-fibrous Bound	80% 20%	Vinyl Calc Carb	None Detected
B80050B	Mastic	Heterogeneous Yellow Non-fibrous Bound	100%	Mastic	None Detected
<b>FT 37-121</b> B80051	Sample Submitted for TEM Analysis				
<b>FT 38-122</b> B80052A	Floor Tile	Heterogeneous Cream Non-fibrous Bound	75% 20%	Vinyl Calc Carb	<b>5% Chrysotile</b>
B80052B	Mastic	Heterogeneous Black Fibrous Bound	100%	Mastic	None Detected
<b>FT 38-123</b> B80053A	Sample Not Analyzed per COC				
B80053B	Mastic	Heterogeneous Black Fibrous Bound	100%	Mastic	None Detected
<b>FT 38-124</b> B80054A	Sample Not Analyzed per COC				



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**Project:** tob100115

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
B80054B	Sample Submitted for TEM Analysis				
<b>CM 39-125</b> B80055	Carpet Mastic	Heterogeneous Yellow Fibrous Bound	2%	Synthetic Fiber 98%	Mastic <b>None Detected</b>
<b>CM 39-126</b> B80056	Carpet Mastic	Heterogeneous Yellow Fibrous Bound	2%	Synthetic Fiber 98%	Mastic <b>None Detected</b>
<b>CM 39-127</b> B80057	Sample Submitted for TEM Analysis				
<b>TB 40-128</b> B80058A	Toe Board	Heterogeneous White,Black Non-fibrous Bound		100% Vinyl	<b>None Detected</b>
B80058B	Mastic	Heterogeneous Cream Non-fibrous Bound		90% Mastic 10% Binder	<b>None Detected</b>
<b>TB 40-129</b> B80059A	Toe Board	Heterogeneous White,Black Non-fibrous Bound		100% Vinyl	<b>None Detected</b>
B80059B	Mastic	Heterogeneous Cream Non-fibrous Bound		90% Mastic 10% Binder	<b>None Detected</b>
<b>TB 40-130</b> B80060	Sample Submitted for TEM Analysis				



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**Date Reported:** 09-15-15

**Project:** tob100115

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
<b>CM 41-131</b> B80061	Carpet Mastic	Heterogeneous Yellow Fibrous Bound	2%	Synthetic Fiber	93%	Mastic 5% Binder	<b>None Detected</b>
<b>CM 41-132</b> B80062	Carpet Mastic	Heterogeneous Yellow Fibrous Bound	2%	Synthetic Fiber	93%	Mastic 5% Binder	<b>None Detected</b>
<b>CM 41-133</b> B80063	Sample Submitted for TEM Analysis						
<b>FT 42-134</b> B80064A	Floor Tile	Heterogeneous Cream Fibrous Bound			75%	Vinyl 20% Calc Carb	<b>5% Chrysotile</b>
B80064B	Mastic	Heterogeneous Black Fibrous Bound			95%	Mastic	<b>5% Chrysotile</b>
<b>FT 42-135</b> B80065	Sample Not Analyzed per COC						
<b>FT 42-136</b> B80066	Sample Not Analyzed per COC						
<b>TB 43-137</b> B80067A	Toe Board	Heterogeneous Cream Non-fibrous Bound			100%	Vinyl	<b>None Detected</b>
B80067B	Mastic	Heterogeneous Yellow Non-fibrous Bound			100%	Mastic	<b>None Detected</b>



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**Project:** tob100115

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
<b>TB 43-138</b> B80068A	Toe Board	Heterogeneous Cream Non-fibrous Bound	100%	Vinyl	<b>None Detected</b>
B80068B	Mastic	Heterogeneous Yellow Non-fibrous Bound	100%	Mastic	<b>None Detected</b>
<b>TB 43-139</b> B80069	Sample Submitted for TEM Analysis				
<b>FT 44-140</b> B80070	Floor Tile	Heterogeneous Brown Non-fibrous Bound	100%	Vinyl	<b>None Detected</b>
<b>FT 44-141</b> B80071	Floor Tile	Heterogeneous Brown Non-fibrous Bound	100%	Vinyl	<b>None Detected</b>
<b>FT 44-142</b> B80072	Sample Submitted for TEM Analysis				
<b>TBM 45-143</b> B80073	Mastic	Heterogeneous Brown Non-fibrous Bound	100%	Mastic	<b>None Detected</b>
<b>TBM 45-144</b> B80074	Mastic	Heterogeneous Brown Non-fibrous Bound	100%	Mastic	<b>None Detected</b>
<b>TBM 45-145</b> B80075	Sample Submitted for TEM Analysis				



**LEGEND:** Non-Anth = Non-Asbestiform Anthophyllite  
Non-Trem = Non-Asbestiform Tremolite  
Calc Carb = Calcium Carbonate

**METHOD:** EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

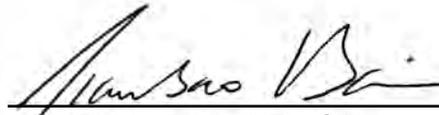
**LIMIT OF DETECTION:** <1% by visual estimation

**REGULATORY LIMIT:** >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation.

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**ANALYST:**   
Greg Ruff

**APPROVED BY:**   
Tianbao Bai, Ph.D., CIH  
Laboratory Director





107 New Edition Court, Cary, NC 27511  
 Tel: 866-481-1412; Fax: 919-481-1442

# ASBESTOS CHAIN OF CUSTODY

(145)

**LAB USE ONLY:**  
 CEI Lab Code: B13 0006  
 CEI Lab I.D. Range: 1379931 1380073

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #: <u>26512</u>	Job Contact: <u>Sarah Browning</u>
Company: <u>Gel Engineering, LLC</u>	Email / Tel:
Address: <u>2040 Savage Road</u>	Project Name:
<u>Charleston, SC 29407</u>	Project ID# <u>tob100115</u>
Email: <u>sarah.browning@gel.com</u>	PO #:
Tel: <u>843-300-4254</u> Fax:	STATE SAMPLES COLLECTED IN: <u>SC</u>

GENERAL INSTRUCTIONS		
POSITIVE STOP ANALYSIS	<input checked="" type="checkbox"/>	PLM DUE DATE: <u>9 / 16 / 15</u>
ANALYZE NOB'S BY TEM	<input checked="" type="checkbox"/>	TEM DUE DATE: <u>9 / 23 / 15</u>

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
PLM POINT COUNT (400)	EPA 600	<input type="checkbox"/>					
PLM POINT COUNT (1000)	EPA 600	<input type="checkbox"/>					
PLM GRAV w POINT COUNT	EPA 600	<input type="checkbox"/>					
PCM AIR	NIOSH 7400	<input type="checkbox"/>					
TEM AIR AHERA	EPA AHERA	<input type="checkbox"/>					
TEM AIR NIOSH	NIOSH 7402	<input type="checkbox"/>					
TEM BULK	CHATFIELD	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
TEM DUST WIPE	ASTM D6480-05	<input type="checkbox"/>					
TEM DUST MICROVAC	ASTM D5755-09	<input type="checkbox"/>					
TEM SOIL	ASTM D7521-13	<input type="checkbox"/>					
TEM VERMICULITE	CINCINNATI METHOD	<input type="checkbox"/>					
OTHER:		<input type="checkbox"/>					

REMARKS: <u>✓ = TEM</u>		<input checked="" type="checkbox"/> Accept Samples
		<input type="checkbox"/> Reject Samples
Relinquished By:	Date/Time	Received By:
<u>[Signature]</u>	<u>9-7-15 1:30 p.m.</u>	<u>[Signature]</u>
		<u>9/9/15 9:30c</u>

Samples will be disposed of 30 days after analysis

# ASBESTOS SAMPLING FORM

B15-0000



COMPANY CONTACT INFORMATION	
Company: <u>GEL Engineering</u>	Job Contact: <u>Scrab Browning</u>
Project Name:	
Project ID #: <u>106100115</u>	Tel: <u>843-300-4254</u>

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
RM 1-1	Built Up Roof Material	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
RM 1-2	↓ ↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ RM 1-3	↓ ↓ ↓ ↓ ↓	PLM	<input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 2-4	Yellow Floor Tile and FT:	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
FT 2-5	Yellow Mastic	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 2-6	↓ ↓ ↓ ↓ ↓	PLM	<input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 3-7	Yellow Floor Tile ? FT:	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
FT 3-8	and Black Mastic } Black	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 3-9	↓ ↓ ↓ ↓ ↓ } Mastic only	PLM	<input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 4-10	Blue Floor Tile and	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
FT 4-11	Black Mastic	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 4-12	↓ ↓ ↓ ↓ ↓	PLM	<input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 5-13	Green Floor Tile with	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
FT 5-14	Black Mastic	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 5-15	↓ ↓ ↓ ↓ ↓	PLM	<input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
CT 6-16	2'x4' Wormhole / Pin hole	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 6-17	Ceiling Tile	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 6-18	↓ ↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
DW 7-19	Daywall: Joint Compound	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
DW 7-20	↓ ↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
DW 7-21	↓ ↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
DW 7-22	↓ ↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
DW 7-23	↓ ↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
DW 7-24	↓ ↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
DW 7-25	↓ ↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
TB 8-26	Black Vinyl Toeboard	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ TB 8-27	w/ Yellow Mastic	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ TB 8-28	↓ ↓ ↓ ↓ ↓	PLM	<input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
<del>SB PL 9-29</del>	<del>Plaster: Base: Skim Coat</del>	<del>PLM</del>	<del><input checked="" type="checkbox"/></del>	<del>TEM <input type="checkbox"/></del>
<del>SB PL 9-30</del>	<del>↓ ↓ ↓ ↓ ↓</del>	<del>PLM</del>	<del><input checked="" type="checkbox"/></del>	<del>TEM <input type="checkbox"/></del>



# ASBESTOS SAMPLING FORM

*Blk 6006*

COMPANY CONTACT INFORMATION	
Company: <i>GEL</i>	Job Contact: <i>Scrah Browning</i>
Project Name:	
Project ID #: <i>100100115</i>	Tel: <i>843-300-4254</i>

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
TB 9-29	Black Vinyl Toeboards	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
TB 9-30	with Yellow Mastic	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ TB 9-31	↓ ↓ ↓ ↓	PLM	<input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
PL 10-32	Plaster: Base + Skim Coat	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PL 10-33	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PL 10-34	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PL 10-35	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PL 10-36	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PL 10-37	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PL 10-38	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 11-39	2'x4' Smooth Ceiling Tile	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 11-40	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 11-41	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
FT 12-42	White with Cream Streaks	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 12-43	Floor Tile and Yellow Mastic	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 12-44	↓ ↓ ↓ ↓	PLM	<input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 13-45	White Floor Tile with	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 13-46	Black Mastic	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 13-47	↓ ↓ ↓ ↓	PLM	<input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 14-48	White w/ Multi colored	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 14-49	Streaks and Cream Mastic	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 14-50	↓ ↓ ↓ ↓	PLM	<input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
PC 15-51	Popcorn Ceiling	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PC 15-52	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PC 15-53	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PC 15-54	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PC 15-55	↓ ↓ ↓ ↓	PLM	<input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
		PLM	<input type="checkbox"/>	TEM <input type="checkbox"/>



# ASBESTOS SAMPLING FORM

*Big Green*

COMPANY CONTACT INFORMATION	
Company: <i>GEL Engineering</i>	Job Contact: <i>Sarah Browning</i>
Project Name:	
Project ID #: <i>to6100115</i>	Tel: <i>843-300-4254</i>

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
			PLM	TEM
CM 110-56	Yellow Carpet Mastic		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ CM 110-57	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ CM 110-58	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 17-59	Green Floor Tile and		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 17-60	Black Mastic		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 17-61	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
TB 18-62	White vinyl toeboards		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
TB 18-63	with mastic		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ TB 18-64	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
CT 19-65	2'x2' Wormhole/Pinhole		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 19-66	Ceiling Tile		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 19-67	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 20-68	2'x2' Pinhole Ceiling Tile		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 20-69	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 20-70	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
DWM 21-71	White Ductwork Mastic		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
DWM 21-72	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ DWM 21-73	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 22-74	White Peel : Stick Floor Tile		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
FT 22-75	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 22-76	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
CT 23-77	2'x2' Smooth Ceiling Tile		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 23-78	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 23-79	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 24-80	2'x2' Wormhole /Pinhole		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 24-81	Ceiling Tile		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 24-82	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>

\* FT only 4



# ASBESTOS SAMPLING FORM

*B156000*

COMPANY CONTACT INFORMATION	
Company: <i>GEL Engineering</i>	Job Contact: <i>Sarah Browning</i>
Project Name:	
Project ID #: <i>tob100115</i>	Tel: <i>843-300-4254</i>

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
			PLM	TEM
CM 25-83	Yellow Carpet Mastic		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CM 25-84	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ CM 25-85	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
CT 26-86	Smooth Pinhole Ceiling		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 26-87	Tile		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 26-88	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
SR 27-89	Canvas wrap		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
SR 27-90	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
SR 27-91	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CM 28-92	Yellow Carpet Mastic		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CM 28-93	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ CM 28-94	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 29-95	White Floor Tile with		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 29-96	Yellow Mastic		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 29-97	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 30-98	Cream Floor Tile with <sup>FT</sup>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
FT 30-99	Yellow Mastic <sub>only</sub>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 30-100	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
CM 31-101	Cream Carpet Mastic		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CM 31-102	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ CM 31-103	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
CM 32-104	Cream Carpet Mastic		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CM 32-105	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ CM 32-106	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
CM 33-107	Cream Carpet Mastic		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CM 33-108	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ CM 33-109	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>



# ASBESTOS SAMPLING FORM

*B156006*

COMPANY CONTACT INFORMATION	
Company: <i>GEL Engineering</i>	Job Contact: <i>Sarah Browning</i>
Project Name:	
Project ID #: <i>John 00115</i>	Tel: <i>843-300-4254</i>

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
<i>PB 34-110</i>	<i>Brown Paper</i>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>PB 34-111</i>	↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>PB 34-112</i>	↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>CW 35-113</i>	<i>Canvas Wrap</i>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>CW 35-114</i>	↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>CW 35-115</i>	↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>FE 36-116</i>	<i>White Mastic</i>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>FE 36-117</i>	↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>FE 36-118</i>	↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
<i>FT 37-119</i>	<i>Cream with Black Dots</i>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>FT 37-120</i>	<i>Floor Tile and Yellow Mastic</i>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>FT 37-121</i>	↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
<i>FT 38-122</i>	<i>Cream Floor Tile and</i>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>FT 38-123</i>	<i>Black Mastic</i>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>FT 38-124</i>	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
<i>CM 39-125</i>	<i>Yellow Carpet Mastic</i>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>CM 39-126</i>	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>CM 39-127</i>	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
<i>TB 40-128</i>	<i>White vinyl toeboards</i>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>TB 40-129</i>	<i>with Cream Mastic</i>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>TB 40-130</i>	↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
<i>CM 41-131</i>	<i>Yellow Carpet Mastic</i>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>CM 41-132</i>	↓ ↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>CM 41-133</i>	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
<i>FT 42-134</i>	<i>Cream Floor Tile</i>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>FT 42-135</i>	<i>and Black Mastic</i>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
<i>FT 42-136</i>	↓ ↓ ↓ ↓ ↓		PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>



**APPENDIX 4.4**  
**ASBESTOS INSPECTOR'S LICENSE AND TRAINING CERTIFICATE**

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**SCDHEC ISSUED**  
**Asbestos ID Card**

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Sarah Browning

Expires

CONSULTBI

BI-01095 11/06/15



# Trident Technical College

Continuing Education, 2001 Mabeline Rd., North Charleston, South Carolina 29406 • 843.574.6022

**Sarah Browning**  
2040 Savage Road, Charleston, SC 29407  
9435

*has completed the requisite training for asbestos accreditation under TSCA Title II and has met the requirements of and passed the examination for an EPA approved*

## *Asbestos Inspector Refresher Training Course*

North Charleston, SC

074-XENV 506-SS2-074

Certificate Number

November 6, 2014

Course Date(s)

November 6, 2014

Examination Date



TRIDENT TECHNICAL COLLEGE



Dan N. Infinger, Principal Instructor



Training Manager

November 6, 2015

Expiration Date