

# ASBESTOS-CONTAINING MATERIALS SURVEY AND QUANTITY ESTIMATION REPORT

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**“Hanger” Building**  
**Asbestos Agreement 1542 \*Task 27\***  
**800 Bay Road**  
**Dover, Delaware**  
**Agreement 1542**  
**Task No. 27 – Asbestos Management**

## Prepared For:

Delaware Department of Transportation  
800 Bay Road  
Dover, Delaware  
Attention: Mr. Danny Skeans

## Submitted:

September 2012

## Prepared By:



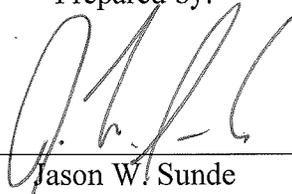
801 Industrial Street  
Suite 1  
Wilmington, DE 19801  
(302) 656-9600

**BrightFields File: 2680.27.74**

## INTERNAL QUALITY CONTROL SHEET

This Asbestos Containing Materials Survey Report was prepared by BrightFields, Inc. following the Environmental Protection Agency National Emissions Standards for Hazardous Air Pollutants, 40 CFR Part 61.145, Asbestos Hazard Emergency Response Act, 40 CFR Part 763.85 practices and policies for the preparation of an asbestos survey inspection and report. This report represents BrightFields' knowledge of conditions on the subject site at the time of preparation. This document was prepared and reviewed by the following BrightFields personnel:

Prepared by:



Jason W. Sunde

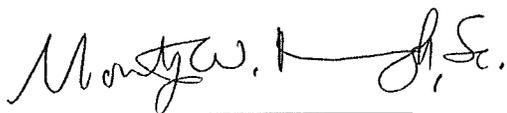
State of Delaware Project Monitor # PM-02  
EPA Region III AHERA Building Inspector Certification # CBI120417-0125

Reviewed by:



Ken Hannon, P.E.  
Engineering Program Manager

Approved by:



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# **ASBESTOS-CONTAINING MATERIALS SURVEY AND QUANTITY ESTIMATION REPORT**

## **1.0 INTRODUCTION**

In response to the Delaware Department of Transportation Agreement Number 1542, contract Task Number 27, BrightFields, Inc. (BrightFields) performed a destructive asbestos survey. As part of this survey, suspected asbestos-containing materials (ACM) were collected and submitted for laboratory analysis. In addition, estimated quantities of each type of suspected ACM were collected in preparation for slated demolition of the following property:

**"Hanger" Building  
800 Bay Road  
Dover, Delaware**

During the inspection BrightFields collected 147 samples of suspect ACM within the structures on the property. Of those samples, only 101 were physically analyzed by the laboratory utilizing the EPA 600/R-93-116 method for the determination of asbestos in bulk building materials using polarized light microscopy (PLM). Six additional samples were further analyzed utilizing the 400 Point Count Procedure by EPA method 600/R-93/116. The approximate areas for the property are broken down below. Each structure's building layout is presented in Figures 1 through 4.

<b>Area:</b>	<b>Square Feet:</b>
Main Level under Metal Roof	21,255
Second Level and Attic Space	6,933
Third Level Attic Space	2,125
<b>Total for property</b>	<b>30,313</b>

The purpose of this survey was to identify and collect samples of suspect ACM throughout the subject property and to assess the condition of those materials. In addition, BrightFields estimated the quantities of the identified ACM.

The intent of the survey was to locate regulated ACM pursuant to the requirements of the National Emissions Standards for Hazardous Air Pollutants (NESHAPS), 40 CFR Part 61.145,

which requires removal and disposal of friable asbestos containing building materials including materials considered Category I & II non-friable that will become friable as a result of demolition and/or renovation activities.

The survey was conducted by BrightFields building inspectors and management planners who have successfully completed EPA approved training classes. Copies of relevant certifications are included as Appendix A.

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## **2.0 SAMPLING AND ANALYTICAL METHODS**

A visual inspection of the property was performed on August 20 and 21, 2012. Information was collected on suspect ACM, including material type, location, estimated quantity, and condition. Daily field logs of the survey and site photographs are included as Appendix B and Appendix D, respectively. The asbestos survey was performed in accordance with EPA and OSHA sampling protocols.

The collected bulk samples were submitted to the following EPA Certified and State of Delaware approved laboratory for asbestos analysis:

EMSL Analytical, Inc.  
200 Route 130 North  
Cinnaminson, New Jersey 08077

At the laboratory, the samples were first examined using a stereo–binocular microscope, and then using a Polarized Light Microscope (PLM) with dispersion staining lens, as recommended in the EPA “*Method For The Determination Of Asbestos In Bulk Materials*” (July 1993, EPA/600/R-93/116). EMSL Analytical, Inc. is accredited by the National Voluntary Laboratory Accreditation Program established by the National Institute for Standards and Testing (NIST), and by the American Industrial Hygiene Association. EMSL Analytical, Inc. is an approved State of Delaware (PLM) laboratory.

Analytical results for this asbestos survey are reported and discussed in the following sections of this report. Raw analytical data results and chain-of-custody documentation are included as Appendix C.

### **3.0 SURVEY RESULTS AND DISCUSSION**

The U.S. Environmental Protection Agency (EPA) considers materials containing greater than 1% asbestos to be "asbestos-containing." Materials containing 1% or less asbestos are not currently regulated. In the event that the Laboratory identifies "Trace" amounts between 1% and 3% of asbestos in a sample, the sample was further analyzed using the EPA 600/R-93/116 Quantitation 400 Point Count Procedure to confirm the asbestos content. If two asbestos-containing materials are combined in a manner that the removal of a material containing 4% or greater asbestos will include the removal of material containing less than 3%, the material containing less than 3% was not point counted.

Table 1 contains BrightFields' sample numbers, material types and quantities, friability and condition of materials, and the percentage of asbestos (as reported by the analytical laboratory). Sample locations are shown on Figures 5 through 8 and the asbestos-containing materials identified in this survey report are shown on Figures 9 through 12. The results of the sampling indicate the following:

#### **Asbestos-Containing Materials**

##### **Roofing Materials**

1. Asbestos-containing silver roof coat associated with the main arched metal roof – estimated 23,000 square feet (2% Chrysotile).
2. Asbestos-containing roofing tar and associated felt backing (black) associated with small isolated flat roof accessed from office 214 or the southern HVAC chase located on the second floor – estimated 348 square feet (5% Chrysotile).
3. Asbestos-containing silver roof coat associated with the lowest slightly angled roof over Rooms 124 and 128 – estimated 570 square feet (1.5% Chrysotile).
4. Asbestos-containing silver roof coat associated with the middle level flat roof primarily over the boiler, sign fabrication, and screening rooms – estimated 4,008 square feet (2.75% Chrysotile).
5. Asbestos-containing silver flashing and patch coating associated with penetrations throughout the middle level flat roof primarily over the boiler, sign fabrication, and screening rooms – estimated 4,008 square feet (2.75% Chrysotile).

6. Asbestos-containing silver roof coat associated with the third level flat roof over the second level office space – estimated 4,967 square feet (3% Chrysotile).
7. Asbestos-containing asphalt rolled roofing associated with the third level flat roof over the second level office space – estimated 4,967 square feet (6% Chrysotile).

### **Thermal System Insulation**

1. Asbestos-containing cementitious ventilation system duct and vent hood located in the screening room and across the 2<sup>nd</sup> Level flat roof – estimated 65 linear feet of 2' diameter duct, 45 linear feet of 1.5' diameter duct, and 68 square feet on vent hood (15 Chrysotile and 15% Crocidolite).
2. Asbestos-containing joint caulk associated with ventilation system duct and vent hood joint connections located in the screening room and across the second level flat roof – estimated 140 linear feet (8% Chrysotile).
3. Asbestos-containing rope gasket associated with ventilation system duct and vent hood joint connections located in the screening room and across the second level flat roof – estimated 140 linear feet (15% Chrysotile).
4. Asbestos-containing vibration damper cloth associated with ventilation system duct at the connection to the blower fan located on the second level flat roof – estimated 8 square feet (90% Chrysotile).
5. Asbestos-containing unused pipe insulation and associated debris located in the attic space above the rear maintenance shop – estimated 800 square feet (15% Chrysotile and 8% Amosite). Please note that two unused 4 foot sections of the pipe insulation were observed with damage debris scattered across the attic floor and on items stored in the attic.
6. Asbestos-containing 4" cement pipe insulation located in maintenance shop, office and storage area, above the drop and wood ceiling in the sign fabrication room, through a portion of the screening room, and in the boiler room – estimated 250 linear feet (15% Chrysotile and 8% Amosite).

7. Asbestos-containing 2" corrugated pipe insulation located in front office area, portions of the screening room, and in the boiler room – estimated 400 linear feet (15% Chrysotile).
8. Asbestos-containing mudded elbows and valves associated with the brown paper wrapped fiberglass pipe insulation located in front office area, portions of the screening room, and in the boiler room – estimated 25 linear feet (5% Chrysotile).
9. Asbestos-containing silver duct coating associated with the exterior 2' x 2' box duct located on the second level flat roof – estimated 1,250 square feet (3% Chrysotile).
10. Asbestos-containing asphalt duct coating associated with the exterior 2' x 2' box duct located on the second level flat roof – estimated 1,250 square feet (5% Chrysotile).
11. Asbestos-containing duct coating associated with the interior 2' x 2' metal box duct located along the northern wall of the metal room and in the boiler room – estimated 450 square feet (10% Chrysotile).
12. Asbestos-containing vibration damper cloth associated with two large air handling units located in the boiler room – estimated 20 square feet (80% Chrysotile).
13. Asbestos-containing vibration damper cloth associated with three connections of the 2' x 2' metal box duct to the centrally located large air handling unit located in the boiler room – estimated 24 square feet (80% Chrysotile).

### **Miscellaneous**

1. Asbestos-containing cementitious siding panels (gray) as exterior and interior walls and as ceilings in room 122 and chase areas adjacent to rooms 113 and 113A – estimated 14,870 square feet (15% Chrysotile).
2. Asbestos-containing sheet good (white with small multi-color squares pattern) located in the 1<sup>st</sup> floor front office area under carpet – estimated 2,000 square feet (8% Chrysotile).

#### **4.0 RECOMMENDATIONS**

Survey results determined that asbestos-containing materials are present within the subject building. Based upon the laboratory analysis and the observations made during the site survey, BrightFields recommends the following:

- In accordance with Federal, State, and local asbestos regulations, a State of Delaware certified/licensed asbestos contractor must properly remove the ACM prior to any demolition or renovation activities that would disturb them.
- As of January 22, 2008, the Delaware Department of Natural Resources and Environmental Control (DNREC), Air Quality Management Section (AQMS) suspended the issuance of project specific, Category I Non-friable Asbestos removal waivers to Professional Service Firms for the handling of asbestos by non-licensed General Contractors. While this process is reviewed by DNREC-AQMS, "roofing" waivers will no longer be issued for the removal of Category I Non-friable roofing materials that are identified as asbestos-containing. Until this process has been reviewed by DNREC-AQMS, all asbestos-containing roofing materials will require abatement by a State of Delaware certified/licensed asbestos contractor.
- All demolition or renovation contractors must be made aware of the identified asbestos materials prior to any work at the subject property to prevent accidental disruption of the identified asbestos materials and subsequent exposure prior to their removal.
- If asbestos debris is disturbed and/or observed on the floor prior to the commencement of abatement activities, it should never be dry swept, but instead cleaned up by trained/certified personnel using either an approved asbestos high efficiency particulate air (HEPA) vacuum or wet-cleaning methods.

Upon the receipt and acceptance of this Asbestos-Containing Materials Survey and Quantity Estimation Report by the Delaware Department of Transportation, BrightFields will prepare and submit the site specific **SECTION 1013 – SUMMARY OF THE WORK – ASBESTOS ABATEMENT** to the Delaware Office of Management and Budget, Division of Facilities and Management for review and approval. Based on the quantity of material identified, BrightFields will solicit a minimum of three competitive bids to complete the abatement of the asbestos-containing material. During abatement activities, BrightFields will provide Project Monitoring

and oversight of the abatement contractor, abatement activities, and final air clearance sampling to confirm proper removal activities.

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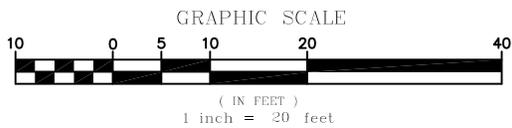
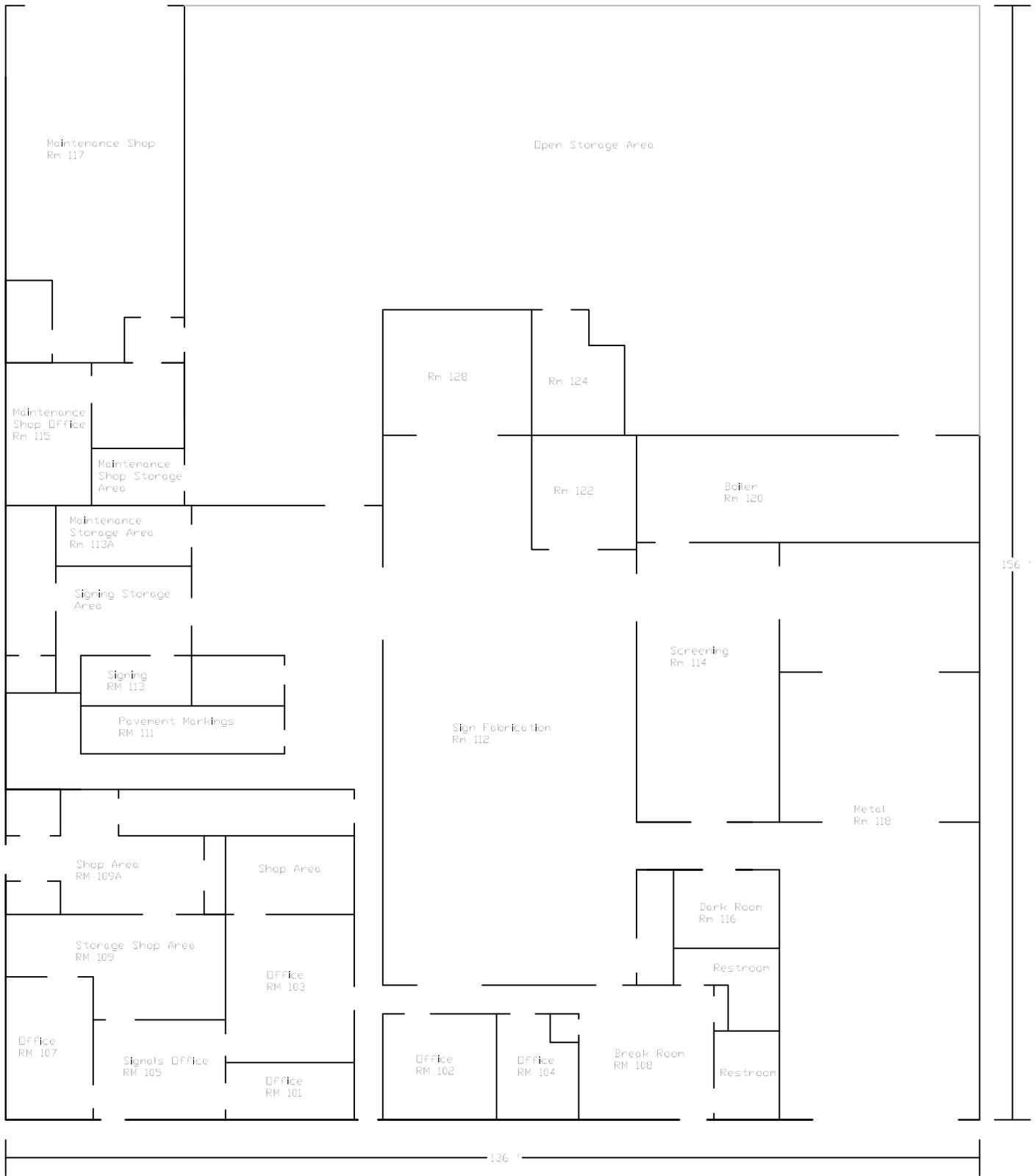
## **5.0 STUDY LIMITATIONS**

BrightFields asserts that properly trained and certified personnel have performed the destructive asbestos survey within each portion of the structures and they have conducted this evaluation in accordance with generally accepted industry practices to produce the testing data contained within this report.

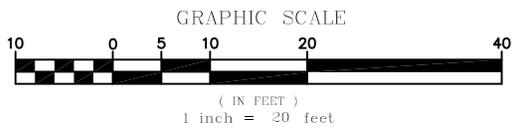
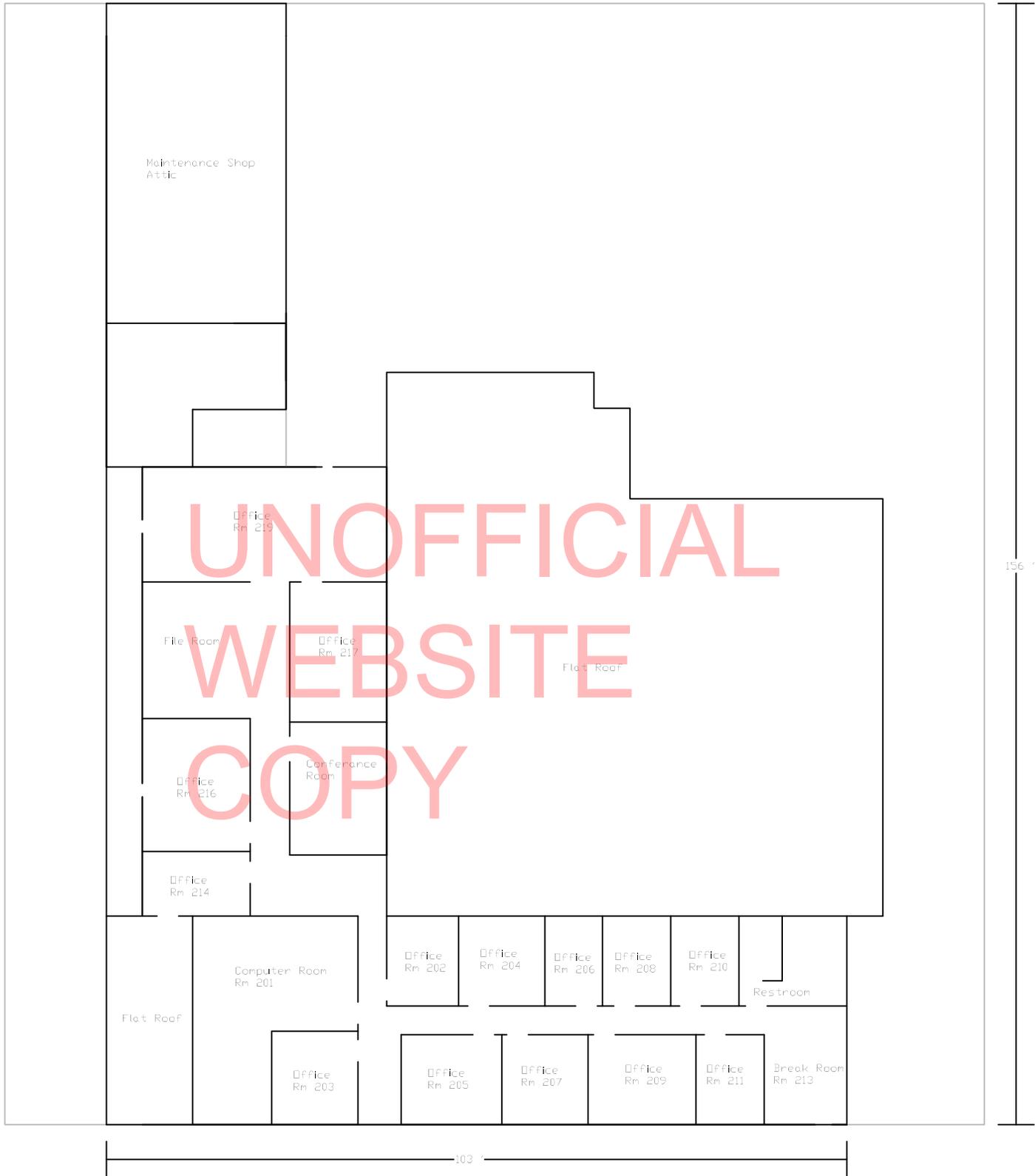
The quantities of asbestos-containing materials stated in this report are estimated quantities of visibly obvious materials observed by BrightFields personnel. The abatement contractor is ultimately responsible for quantifying the amount of asbestos material.

## FIGURES

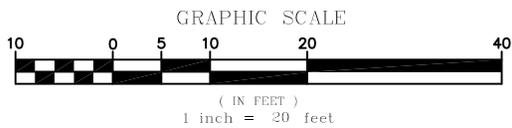
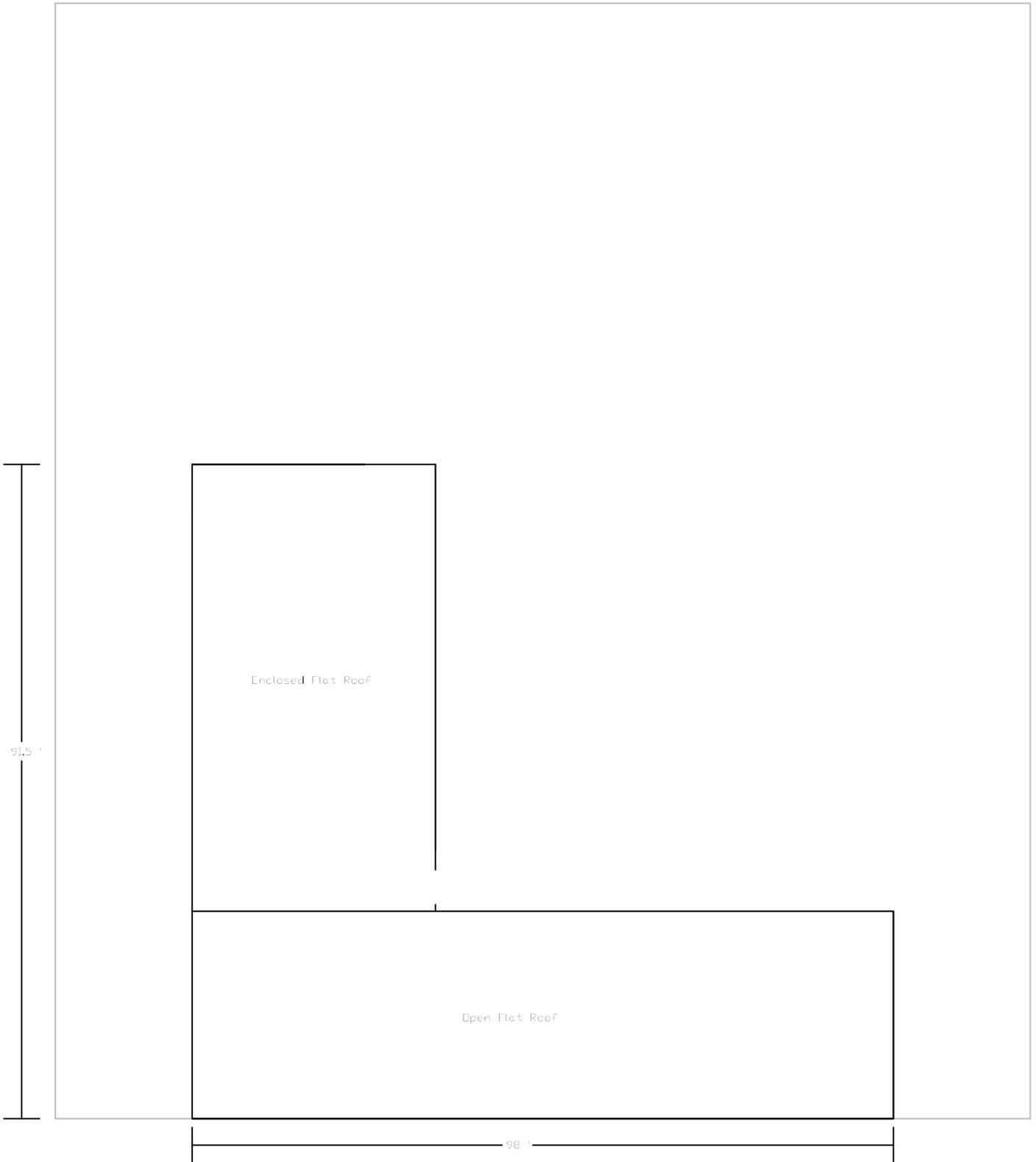
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		302 656-9600 302 656-9700 fax		
Main Level Layout Hanger Building 800 Bay Road Dover, Delaware				
	BY	DATE	SCALE:	AC FILE:
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CHECKED	MWK	8-30-12	DWG. NO.	REV.
PROJECT #	2680.27.74		Figure 1	0



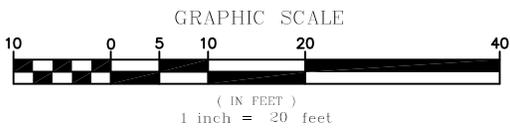
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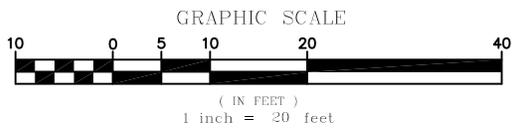
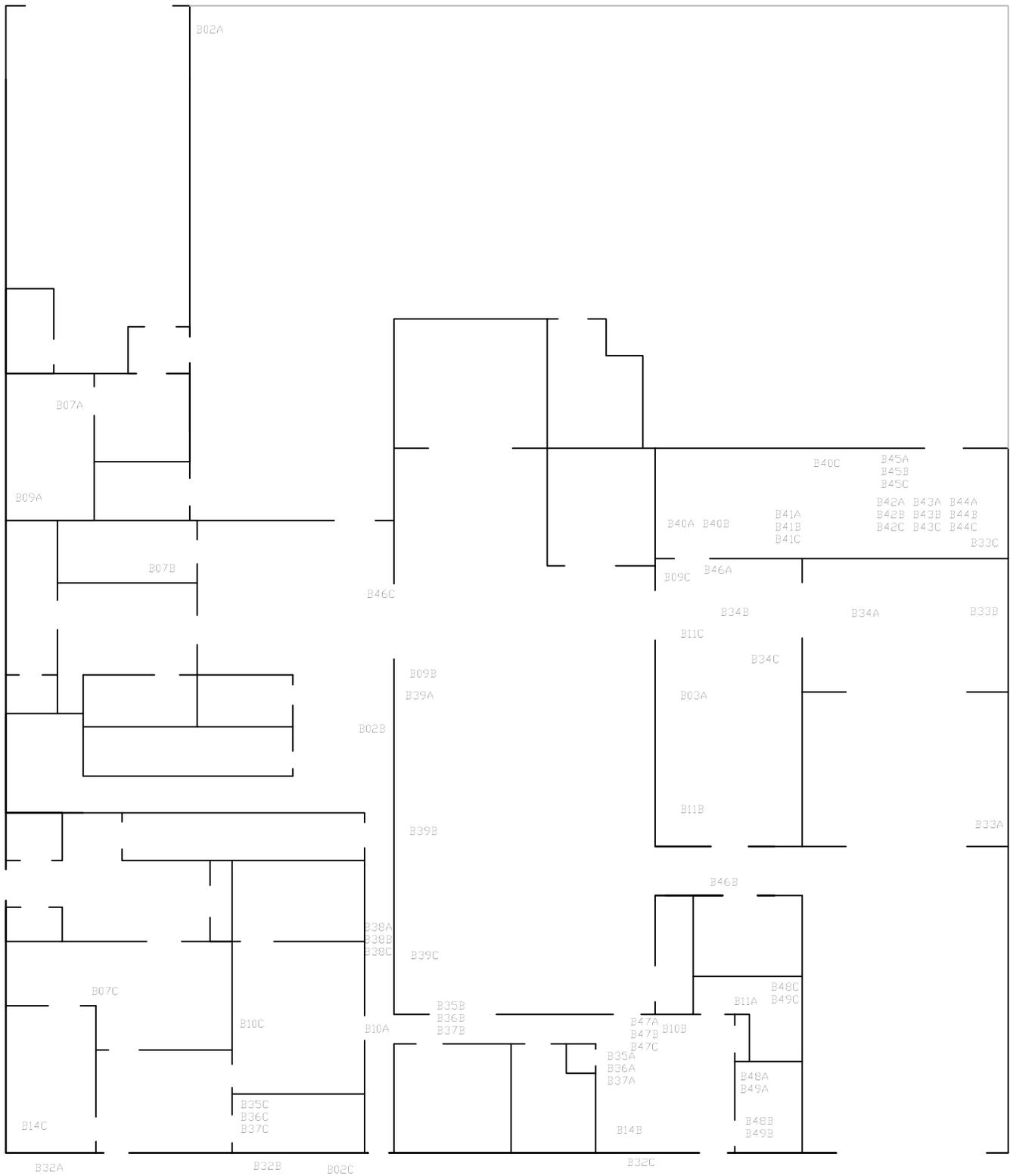
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Arched Metal Roof



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Metal Roof Layout Hanger Building 800 Bay Road Dover, Delaware				
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Environmental Evaluation,  
Investigation, and Remediation

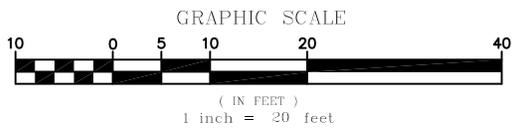
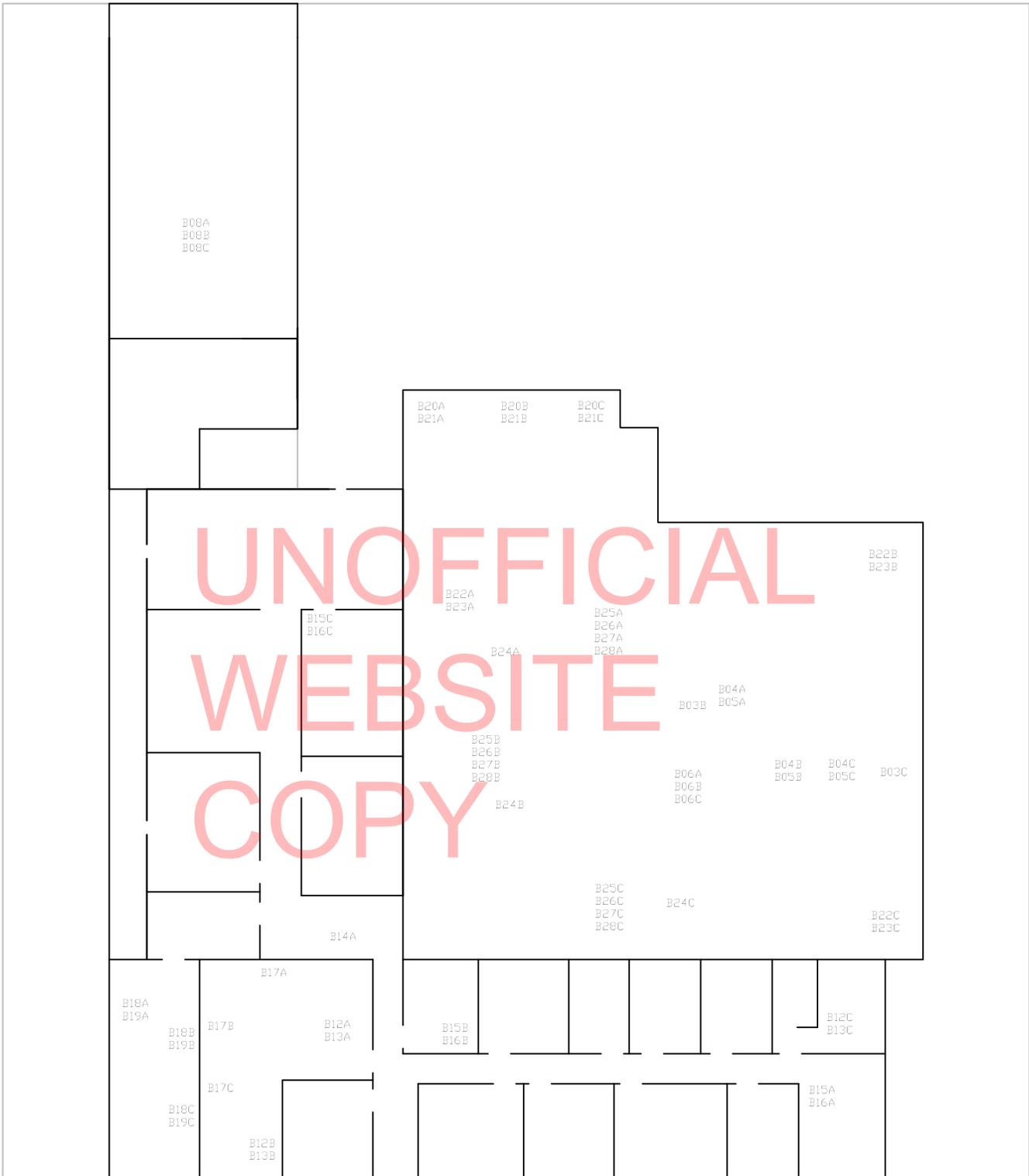
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302 656-9600  
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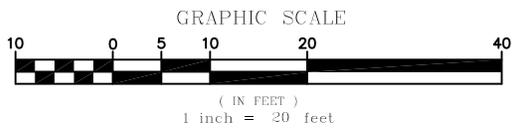
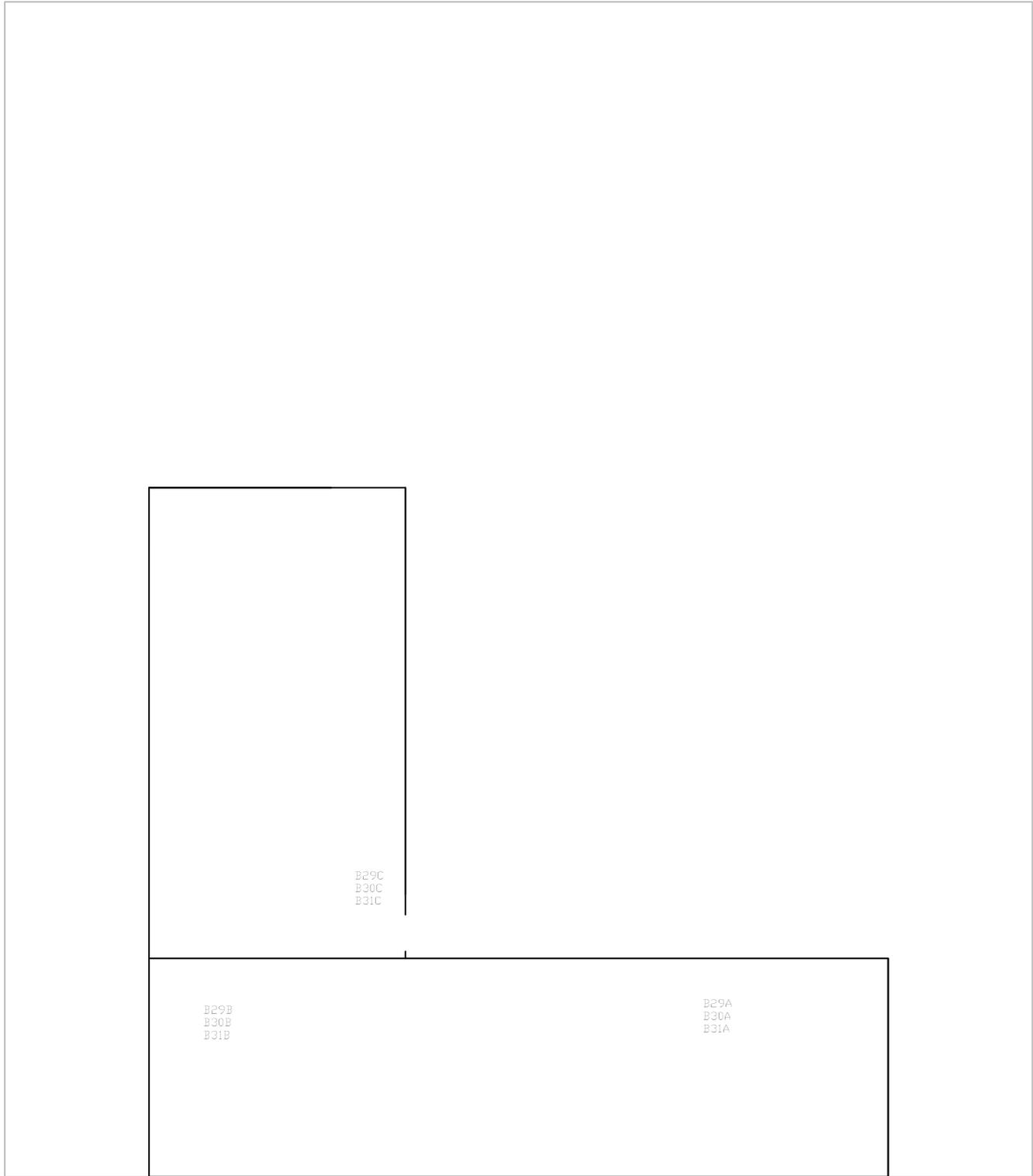
Main Level Sample Locations  
Hanger Building  
800 Bay Road  
Dover, Delaware

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Second Level Sample Locations Hanger Building 800 Bay Road Dover, Delaware				
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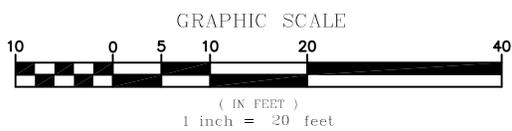
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801 Industrial Street, Suite 1 Wilmington, Delaware 19801		302 656-9600 302 656-9700 fax		
Third Level Sample Locations Hanger Building 800 Bay Road Dover, Delaware				
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PROJECT #	2680.27.74		Figure 7	0

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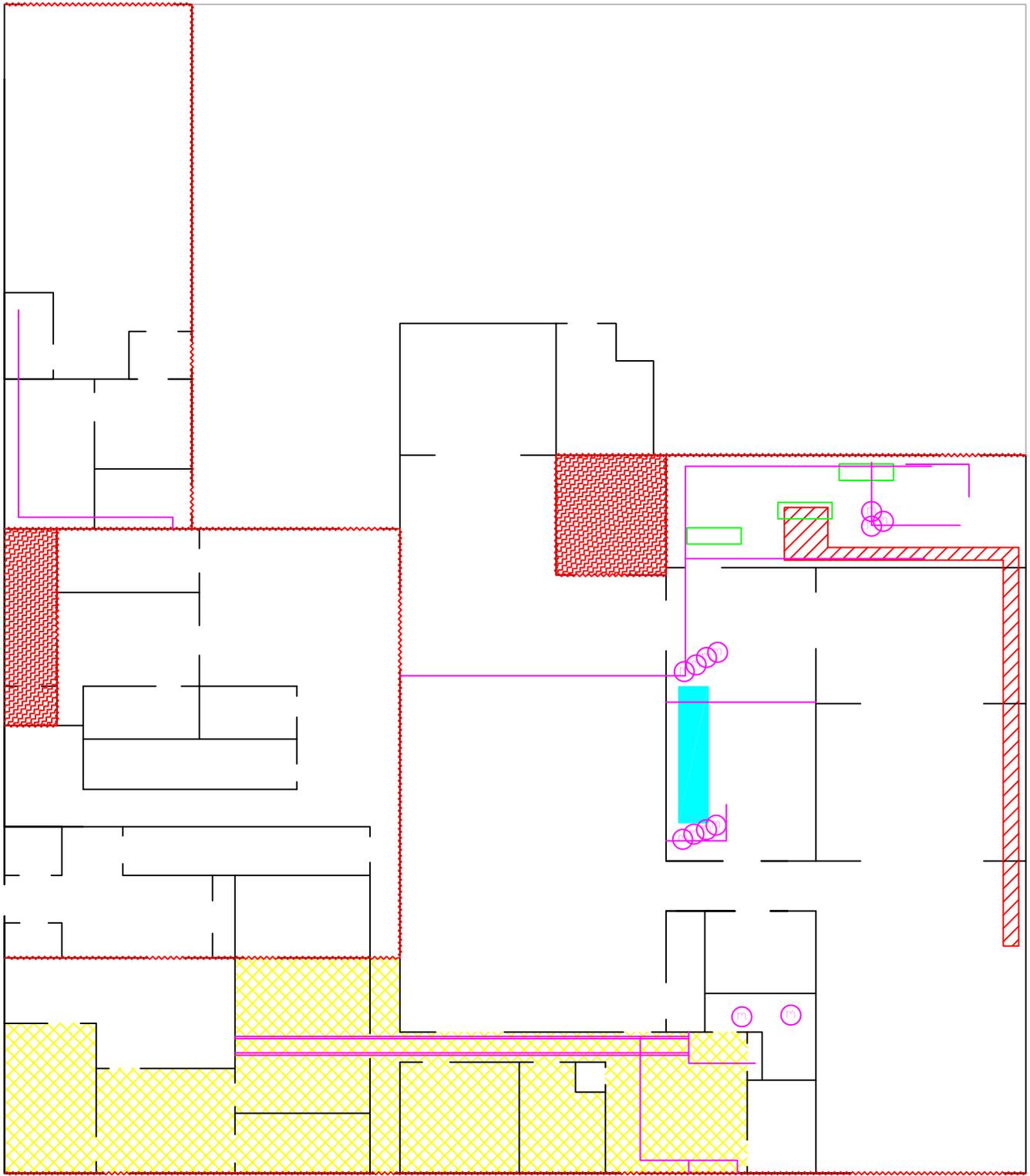
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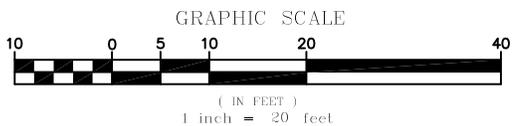


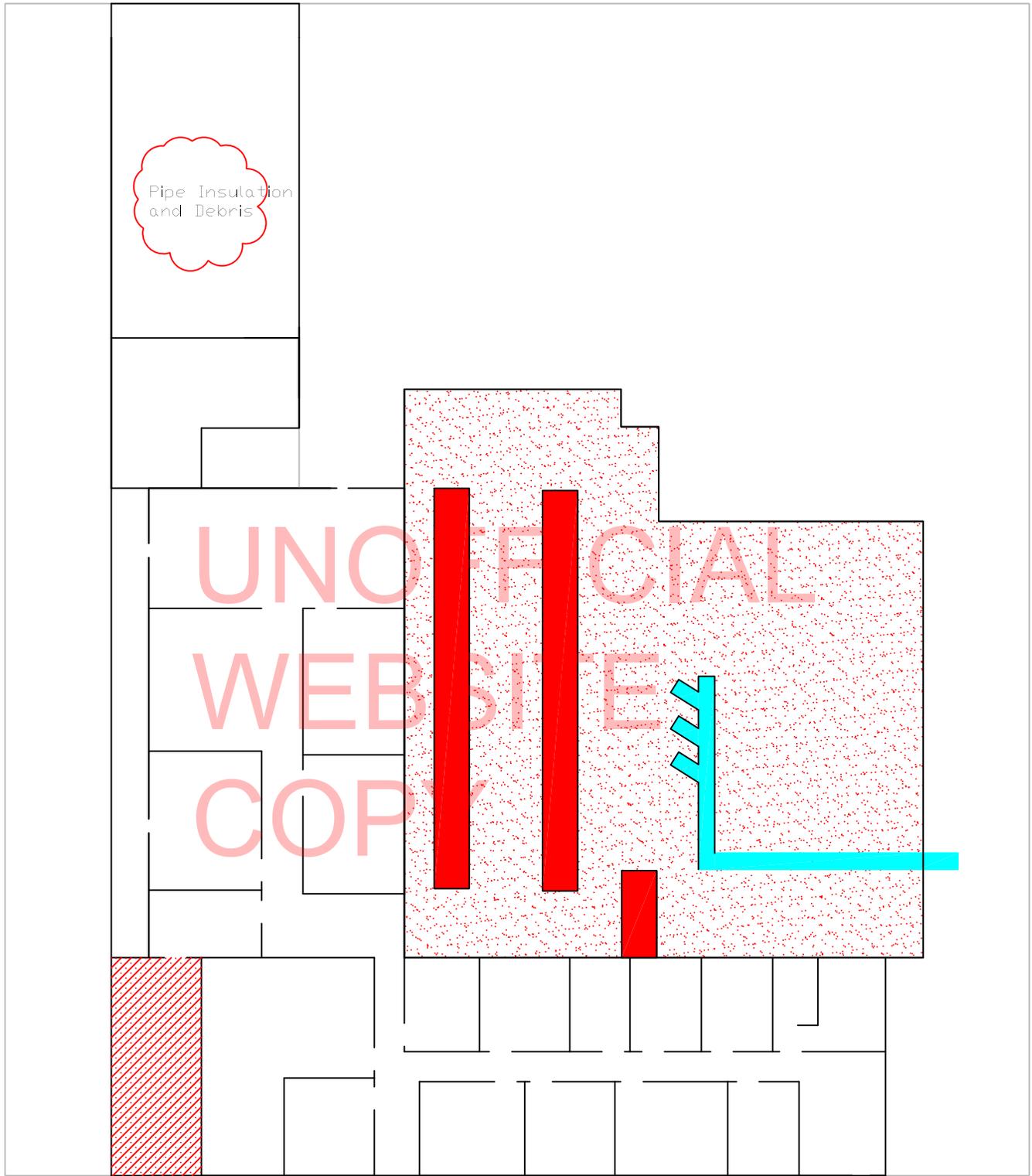
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Metal Roof Sample Locations Hanger Building 800 Bay Road Dover, Delaware				
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-  Asbestos-containing Cementitious Panels
-  Asbestos-containing Ventilation Hood includes panels, duct, joint caulk and rope gasket
-  Asbestos-containing Pipe Insulation
-  Asbestos-containing Mudded Joint/Elbow
-  Asbestos-containing Duct Board Coating
-  Asbestos-containing Sheet Good
-  Asbestos-containing Vibration Cloth

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Main Level Asbestos-Containing Materials Hanger Building 800 Bay Road Dover, Delaware				
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Pipe Insulation  
and Debris

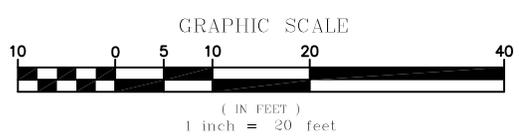
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 Asbestos-containing Ventilation Hood includes vibration cloth, duct, joint caulk and rope gasket

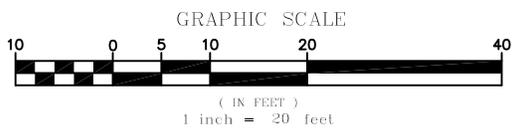
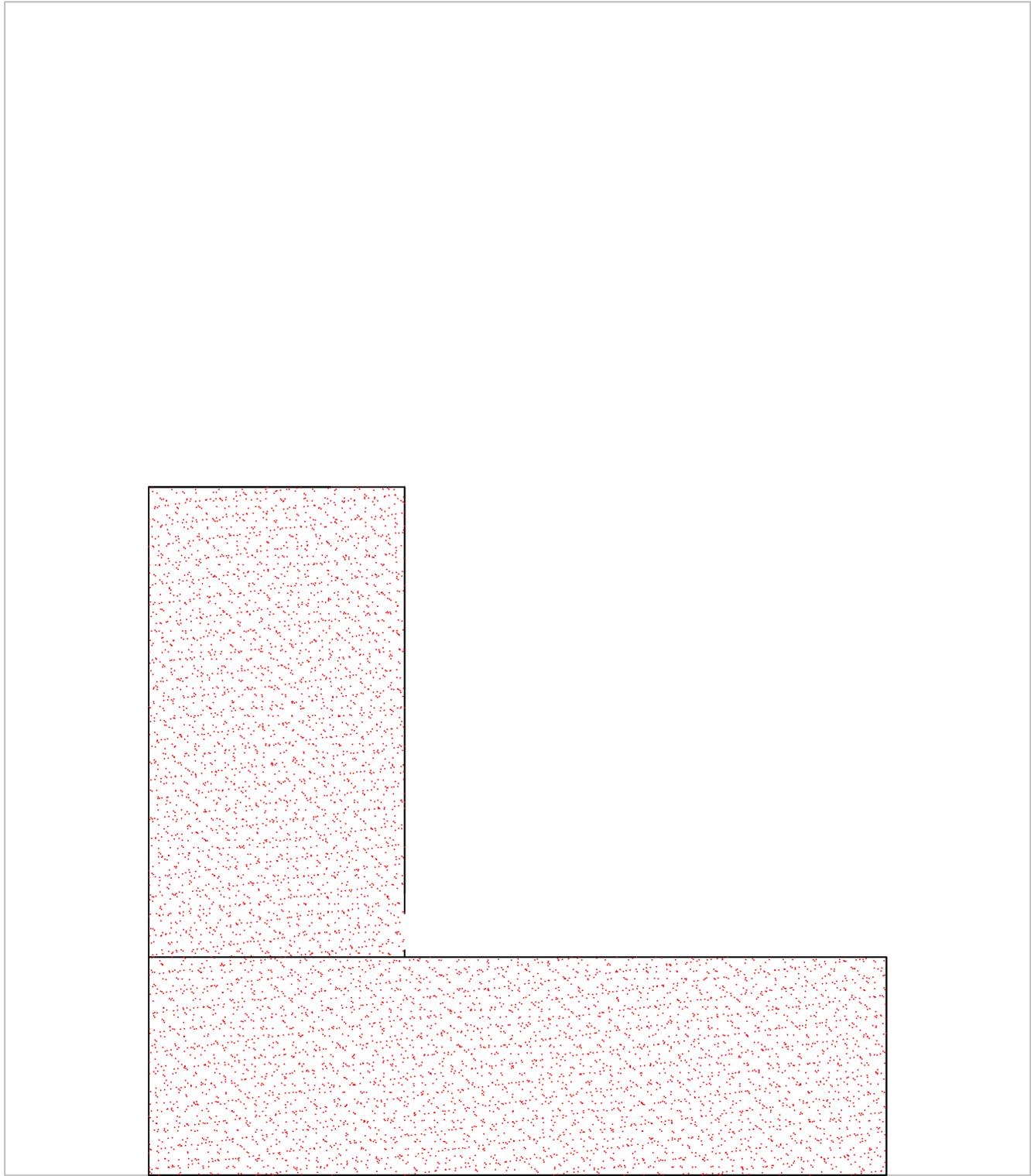
 Asbestos-containing Roofing Tar and Felt

 Asbestos-containing Silver Roof Caot and Flashing Patch

 Asbestos-containing Silver and Asphalt Duct Coating



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Second Level Asbestos-Containing Materials Hanger Building 800 Bay Road Dover, Delaware				
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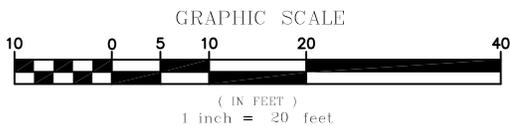


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Asbestos-containing Silver Roof Coat



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Metal Roof Asbestos-Containing Materials Hanger Building 800 Bay Road Dover, Delaware				
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Asbestos-Containing Materials Survey Report  
“Hanger” Building  
800 Bay Road  
Dover, Delaware  
Task No. 27 – Asbestos Management



## TABLES

**TABLE 1: Suspect Asbestos-Containing Building Materials**

**Task 27**

**"Hanger" Building**

**800 Bay Road**

**Dover, Delaware**

HA	Sample Number	Material Type	Material Description	Quantity	Sample Location	Friability	% Asbestos	Condition
HA01	B01A	M	Silver roof coat (silver)	23,000 square feet	Coating on metal arched roof (main outer roof)	NF	0.50% Chrysotile	G/D
	B01B						2.0 Chrysotile	
	B01C						0.25% Chrysotile	
HA02	B02A	M	Cementitious siding panels (grey)	14,870 square feet	4'x8', 1/8" thick panels. Front & rear office and paint booth area.	NF	15% Chrysotile	G
	B02B						SNA	
	B02C						SNA	
HA03	B03A	TSI	Cementitious ventilation hood (grey)	68 square feet on vent, 110 linear feet of duct	2' diameter duct (65' exterior), 1.5' diameter duct (18' exterior & 27' interior), 3x2, 1x20 & 2x2x2 vent hood	NF	15% Chrysotile	G
	B03B						15% Crocidolite	
	B03C						SNA	
HA04	B04A	TSI	Joint caulk associated with HA03 (beige/red)	140 square feet	15 exterior joints, 6 interior joints associated with HA03	NF	8% Chrysotile	G
	B04B						SNA	
	B04C						SNA	
HA05	B05A	TSI	Rope gasket associated with HA03 and HA04 (white)	140 square feet	SA HA04	NF	15% Chrysotile	G
	B05B						SNA	
	B05C						SNA	
HA06	B06A	TSI	Vibration damper cloth associated with HA03 (grey/white)	8 square feet	Roof side of duct at blower inlet and outlet associated with HA03	NF	90% Chrysotile	G
	B06B						SNA	
	B06C						SNA	
HA07	B07A	M	Sheetgood (green/black marble)	1,100 square feet	Maintenance shop office under carpet in front office	NF	NAD	G
	B07B						NAD	
	B07C						NAD	
HA08	B08A	TSI	Pipe insulation (white)	800 square feet	Maintenance shop attic. Unused insulation in box, debris on attic floor	F	15% Chrysotile	SD
	B08B						8% Amosite	
	B08C						SNA	

HA= Homogeneous area  
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**Material Type:**  
 S- Surfacing  
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 M- Miscellaneous

**Friability:**  
 F- Friable  
 NF- Non-friable  
 SD- Significantly Damaged

**Condition:**  
 G- Good  
 D- Damaged

**TABLE 1: Suspect Asbestos-Containing Building Materials**

**Task 27**

**"Hanger" Building**

**800 Bay Road**

**Dover, Delaware**

HA	Sample Number	Material Type	Material Description	Quantity	Sample Location	Friability	% Asbestos	Condition
HA09	B09A	TSI	4" pipe insulation (white)	250 linear feet	Maintenance shop attic from garage to interior connection changes to fiberglass on interior side of wall. Boiler room. Sign fabrication room. Screening room.	F	15% Chrysotile 5% Amosite	G
	B09B						SNA	
	B09C						SNA	
HA10	B10A	TSI	2" corrugated pipe insulation (white/gray)	400 linear feet	Boiler room. Office. Screening room.	F	15% Chrysotile	G
	B10B						SNA	
	B10C						SNA	
HA11	B11A	TSI	Mudded elbow and joints (gray)	25 linear feet	Associated with 1" brown wrap fiberglass lines in front office area, 1st floor. Screening room. Boiler room. Above bath in front office.	F	5% Chrysotile	G
	B11B						SNA	
	B11C						SNA	
HA12	B12A	M	Sheetgood (sandstone pattern)	700 square feet	Computer room and 2nd floor bathrooms.	NF	NAD	G
	B12B						NAD	
	B12C						NAD	
HA13	B13A	M	Mastic associated with HA12 (yellow)	700 square feet	SA HA12	NF	NAD	G
	B13B						NAD	
	B13C						NAD	
HA14	B14A	M	Ceiling tile (gray)	7,500 square feet	Throughout as drop ceiling 1st and 2nd floor	F	NAD	G/D
	B14B						NAD	
	B14C						NAD	
HA15	B15A	M	Drywall (gray)	4,800 square feet	Throughout as finished walls, except paneled areas	F	NAD	G
	B15B						NAD	
	B15C						NAD	

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**TABLE 1: Suspect Asbestos-Containing Building Materials**

**Task 27**

**"Hanger" Building**

**800 Bay Road**

**Dover, Delaware**

HA	Sample Number	Material Type	Material Description	Quantity	Sample Location	Friability	% Asbestos	Condition
HA16	B16A	S	Joint compound associated with HA15 (white)	4,800 square feet	SA HA15	F	NAD	G
	B16B						NAD	
	B16C						NAD	
HA17	B17A	M	Fiberboard (brown)	1,100 square feet	Behind drywall in 2nd floor computer room	F	NAD	G
	B17B						NAD	
	B17C						NAD	
HA18	B18A	M	Roofing tar, thin coat (black)	348 square feet	Small flat roof accessed on 2nd floor office area.	NF	5% Chrysotile	G
	B18B						SNA	
	B18C						SNA	
HA19	B19A	M	Felt paper (black)	348 square feet	SA HA18	F	5% Chrysotile	G
	B19B						SNA	
	B19C						SNA	
HA20	B20A	M	Silver coat (silver)	570 square feet	Low roof, top layer	NF	1.5% Chrysotile	G
	B20B						SNA	
	B20C						SNA	
HA21	B21A	M	Asphalt rolled roofing (black)	570 square feet	SA HA20, 2nd layer	NF	NAD	G
	B21B						NAD	
	B21C						NAD	
HA22	B22A	M	Silver coat (silver)	4,008 square feet	Mid roof, 1st layer under stone	NF	2.75% Chrysotile	G
	B22B						SNA	
	B22C						SNA	
HA23	B23A	M	Asphalt built-up roofing (black)	4,008 square feet	SA HA22, 2nd layer under stone	NF	NAD	G
	B23B						NAD	
	B23C						NAD	

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**TABLE 1: Suspect Asbestos-Containing Building Materials**

**Task 27**

**"Hanger" Building**

**800 Bay Road**

**Dover, Delaware**

HA	Sample Number	Material Type	Material Description	Quantity	Sample Location	Friability	% Asbestos	Condition
HA24	B24A	M	Built-up silver flashing patch (silver)	4,008 square feet	SA HA22, Mid roof around equipment and penetrations	NF	2.75% Chrysotile	G
	B24B						SNA	
	B24C						SNA	
HA25	B25A	TSI	Duct outer layer (silver)	1,250 square feet	Mid roof 2'x2' square duct outer laayer	NF	3% Chrysotile	G
	B25B						SNA	
	B25C						SNA	
HA26	B26A	TSI	Asphalt duct coating (black)	1,250 square feet	Under HA25	NF	5% Chrysotile	G
	B26B						SNA	
	B26C						SNA	
HA27	B27A	TSI	Cementicious duct coating (gray)	1,250 square feet	Under HA26	F	NAD	G
	B27B						NAD	
	B27C						NAD	
HA28	B28A	TSI	Fibrous duct insulation (brown)	1,250 square feet	Under HA27	F	NAD	G
	B28B						NAD	
	B28C						NAD	
HA29	B29A	M	Silver coat (silver)	4,967 square feet	High roof, 1st layer	NF	3% Chrysotile	G
	B29B						SNA	
	B29C						SNA	
HA30	B30A	M	Asphalt rolled roofing (black)	4,967 square feet	Under HA29	NF	6% Chrysotile	G
	B30B						SNA	
	B30C						SNA	
HA31	B31A	M	Roofing felt (black)	4,967 square feet	Under HA30	NF	NAD	G
	B31B						NAD	
	B31C						NAD	

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**TABLE 1: Suspect Asbestos-Containing Building Materials**

**Task 27**

**"Hanger" Building**

**800 Bay Road**

**Dover, Delaware**

HA	Sample Number	Material Type	Material Description	Quantity	Sample Location	Friability	% Asbestos	Condition
HA32	B32A	M	Window glaze (white)	10 units	2'x3' original wood framed windows (10)	F	NAD	G
	B32B						NAD	
	B32C						NAD	
HA33	B33A	TSI	Duct board coating (white)	450 square feet	2'x2' metal duct in metal/boiler rooms	F	10% Chrysotile	G
	B33B						SNA	
	B33C						SNA	
HA34	B34A	M	Vibration damper cloth (black)	12 square feet	Associated with air handling units in metal room	NF	NAD	G
	B34B						NAD	
	B34C						NAD	
HA35	B35A	M	Carpet mastic (yellow)	2,000 square feet	Throughout, associated with all carpeted areas	NF	NAD	G
	B35B						NAD	
	B35C						NAD	
HA36	B36A	M	Sheet good (white)	2,000 square feet	Front office area	NF	8% Chrysotile	G
	B36B						SNA	
	B36C						SNA	
HA37	B37A	M	Mastic associated with HA37 (yellow)	2,000 square feet	SA HA37	NF	NAD	G
	B37B						NAD	
	B37C						NAD	
HA38	B38A	M	Floor leveler (gray)	4 square feet	Front office area	F	NAD	G
	B38B						NAD	
	B38C						NAD	
HA39	B39A	TSI	Cloth pipe wrap (cream)	300 linear feet	Associated with fiberglass lines in sign fabrication room	NF	NAD	G
	B39B						NAD	
	B39C						NAD	

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**TABLE 1: Suspect Asbestos-Containing Building Materials**

**Task 27**

**"Hanger" Building**

**800 Bay Road**

**Dover, Delaware**

HA	Sample Number	Material Type	Material Description	Quantity	Sample Location	Friability	% Asbestos	Condition
HA40	B40A	M	Vibration damper cloth (black)	20 square feet	Air handlers in boiler room	F	80% Chrysotile	G
	B40B						SNA	
	B40C						SNA	
HA41	B41A	M	Vibration damper cloth (tan)	24 square feet	Air handler connected to 2'x2' duct in boiler room	NF	80% Chrysotile	G
	B41B						SNA	
	B41C						SNA	
HA42	B42A	TSI	Outer jacket boiler insulation (brown)	310 square feet	Boiler	F	NAD	G
	B42B						NAD	
	B42C						NAD	
HA43	B43A	TSI	Rope gasket (yellow)	40 linear feet	Boiler	F	NAD	G
	B43B						NAD	
	B43C						NAD	
HA44	B44A	TSI	Boiler patching (gray)	5 square feet	Boiler	NF	NAD	G
	B44B						NAD	
	B44C						NAD	
HA45	B45A	TSI	6" pipe insulation (white)	5 linear feet	Boiler room	F	NAD	G
	B45B						NAD	
	B45C						NAD	
HA46	B46A	M	Fire door insulation (brown)	~15 units	Associated with fire doors in boiler room and sign shop areas	F	NAD	G
	B46B						NAD	
	B46C						NAD	

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**TABLE 1: Suspect Asbestos-Containing Building Materials**

**Task 27**

**"Hanger" Building**

**800 Bay Road**

**Dover, Delaware**

HA	Sample Number	Material Type	Material Description	Quantity	Sample Location	Friability	% Asbestos	Condition
HA47	B47A	M	1' x1' ceiling tile (brown)	10 square feet	Phone booth area	F	NAD	G
	B47B						NAD	
	B47C						NAD	
HA48	B48A	M	Sheet good (gray stone pattern)	410 square feet	Mens/womens bathroom in office area	NF	NAD	G
	B48B						NAD	
	B48C						NAD	
HA49	B49A	M	Mastic associated with HA48 (yellow)	410 square feet	SA HA48	NF	NAD	G
	B49B						NAD	
	B49C						NAD	
<p><b>END OF SURVEY</b>  <b>NO OTHER BUILDING MATERIALS IDENTIFIED BY THE LABORATORY</b>  <b>AS ASBESTOS-CONTAINING MATERIALS</b></p>								

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WEBSITE  
COPY

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Asbestos-Containing Materials Survey Report  
“Hanger” Building  
800 Bay Road  
Dover, Delaware  
Task No. 27 – Asbestos Management



## APPENDICES

Asbestos-Containing Materials Survey Report  
“Hanger” Building  
800 Bay Road  
Dover, Delaware  
Task No. 27 – Asbestos Management



## **APPENDIX A**

**CERTIFICATIONS**

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# STATE OF DELAWARE

## THIS CERTIFIES THAT

BrightFields, Incorporated

Has satisfactorily completed the requirements prescribed by the Office of Management & Budget as a  
Asbestos Abatement Professional Service Firm this

Twenty-Fourth

Day of

January

Two Thousand Twelve

This certification is valid for one (1) year to perform asbestos services within the State of Delaware.

This certification shall be proof that the above named Contractor has met the minimum requirements established by the State of Delaware for temporary certification. It is not intended as an overall endorsement of the Contractor's ability to provide services of varying size and shape. It does not endorse the methods and types of respiratory protection used by the Contractor.

Contractor's Address:

801 Industrial Street

Suite #1

Wilmington, DE 19801

January 24, 2013

PS-125

Expiration Date:

Certification Number:

Director

Division of Facilities Management

# CENTRAL DELAWARE TRAINING ACADEMY, INC.

**JASON W. SUNDE**

has successfully completed EPA APPROVED

## AHERA BUILDING INSPECTOR REFRESHER TRAINING

COURSE LENGTH 4 HOURS

on April 17<sup>th</sup>, Two Thousand-Twelve

CDTA  
P.O. BOX 1344  
DOVER, DE 19903-1344  
(302) 677-1534



DAVID T. STANLEY, PRESIDENT



RONALD S. HERCHA, VICE PRESIDENT

EXAM DATE: 041712

EXPIRE DATE: 041713

ID NUMBER CB120417-0125

Asbestos-Containing Materials Survey Report  
“Hanger” Building  
800 Bay Road  
Dover, Delaware  
Task No. 27 – Asbestos Management



## **APPENDIX B**

### **DAILY FIELD LOGS**





Asbestos-Containing Materials Survey Report  
“Hanger” Building  
800 Bay Road  
Dover, Delaware  
Task No. 27 – Asbestos Management



## **APPENDIX C**

**LABORATORY DATA RESULTS**

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# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077  
Phone/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.emsl.com> / [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order ID: 041222382  
Customer ID: WIK50  
Customer PO: 11000  
Project ID:

**Attn:** Jason Sunde  
BrightFields, Inc.  
801 Industrial Street  
Suite 1  
Wilmington, DE 19801  
**Proj:** 2680.27.74

**Phone:** (302) 656-9600  
**Fax:** (no ) fax-axes  
**Collected:** 8/21/2012  
**Received:** 8/23/2012  
**Analyzed:** 9/05/2012

## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116 and/or EPA 600/M4-82-020

**Client Sample ID:** B01A

**Lab Sample ID:** 041222382-0001

**Sample Description:** Coating on metal arched roof (main outer roof)/silver roof coat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012		0%	98%	2% Chrysotile	
400 PLM Pt Ct	8/25/2012	Silver	0%	99.50%	0.50% Chrysotile	

**Client Sample ID:** B01B

**Lab Sample ID:** 041222382-0002

**Sample Description:** Coating on metal arched roof (main outer roof)/silver roof coat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012				Stop Positive (Not Analyzed)	
400 PLM Pt Ct	9/05/2012	Silver	0%	98.00%	2.00% Chrysotile	

**Client Sample ID:** B01C

**Lab Sample ID:** 041222382-0003

**Sample Description:** Coating on metal arched roof (main outer roof)/silver roof coat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012				Stop Positive (Not Analyzed)	
400 PLM Pt Ct	8/25/2012	Silver	0%	99.75%	0.25% Chrysotile	

**Client Sample ID:** B02A

**Lab Sample ID:** 041222382-0004

**Sample Description:** 4'x8' 1/8" thick panels front-rear office paint bo/cementitious siding panels

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Gray	0%	85%	15% Chrysotile	

**Client Sample ID:** B02B

**Lab Sample ID:** 041222382-0005

**Sample Description:** 4'x8' 1/8" thick panels front-rear office paint bo/cementitious siding panels

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012				Stop Positive (Not Analyzed)	

**Client Sample ID:** B02C

**Lab Sample ID:** 041222382-0006

**Sample Description:** 4'x8' 1/8" thick panels front-rear office paint bo/cementitious siding panels

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012				Stop Positive (Not Analyzed)	



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EMSL Order ID: 041222382  
Customer ID: WIK50  
Customer PO: 11000  
Project ID:

## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116 and/or EPA 600/M4-82-020

**Client Sample ID:** B03A **Lab Sample ID:** 041222382-0007

**Sample Description:** 2' dia duct 65' ext 1 1/2' dia duct 27' ext. 18' i/cementitious vent hood and duct

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Gray	0%	70%	15% Chrysotile 15% Crocidolite	

**Client Sample ID:** B03B **Lab Sample ID:** 041222382-0008

**Sample Description:** 2' dia duct 65' ext 1 1/2' dia duct 27' ext. 18' i/cementitious vent hood and duct

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B03C **Lab Sample ID:** 041222382-0009

**Sample Description:** 2' dia duct 65' ext 1 1/2' dia duct 27' ext. 18' i/cementitious vent hood and duct

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B04A **Lab Sample ID:** 041222382-0010

**Sample Description:** 15 ext joints 6 int joints/joint caulk assoc with HA03

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Tan	0%	92%	8% Chrysotile	

**Client Sample ID:** B04B **Lab Sample ID:** 041222382-0011

**Sample Description:** 15 ext joints 6 int joints/joint caulk assoc with HA03

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B04C **Lab Sample ID:** 041222382-0012

**Sample Description:** 15 ext joints 6 int joints/joint caulk assoc with HA03

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B05A **Lab Sample ID:** 041222382-0013

**Sample Description:** 15 ext joints 6 int joints/rope gasket assoc with HA03 & HA04

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	75%	10%	15% Chrysotile	

**Client Sample ID:** B05B **Lab Sample ID:** 041222382-0014

**Sample Description:** 15 ext joints 6 int joints/rope gasket assoc with HA03 & HA04

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)



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EMSL Order ID: 041222382  
Customer ID: WIK50  
Customer PO: 11000  
Project ID:

## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116 and/or EPA 600/M4-82-020

**Client Sample ID:** B05C **Lab Sample ID:** 041222382-0015

**Sample Description:** 15 ext joints 6 int joints/rope gasket assoc with HA03 & HA04

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B06A **Lab Sample ID:** 041222382-0016

**Sample Description:** Roof side of duct at blower inlet and outlet/vibration damper cloth assoc with HA03

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	0%	10%	90% Chrysotile	

**Client Sample ID:** B06B **Lab Sample ID:** 041222382-0017

**Sample Description:** Roof side of duct at blower inlet and outlet/vibration damper cloth assoc with HA03

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B06C **Lab Sample ID:** 041222382-0018

**Sample Description:** Roof side of duct at blower inlet and outlet/vibration damper cloth assoc with HA03

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B07A **Lab Sample ID:** 041222382-0019

**Sample Description:** Maint shop office under carpet in front office/sheet good (green & black marble)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	20%	80%	None Detected	

**Client Sample ID:** B07B **Lab Sample ID:** 041222382-0020

**Sample Description:** Maint shop office under carpet in front office/sheet good (green & black marble)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	15%	85%	None Detected	

**Client Sample ID:** B07C **Lab Sample ID:** 041222382-0021

**Sample Description:** Maint shop office under carpet in front office/sheet good (green & black marble)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	15%	85%	None Detected	

**Client Sample ID:** B08A **Lab Sample ID:** 041222382-0022

**Sample Description:** Maint shop attic un-used insulation in box debris/pipe insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	White	0%	77%	8% Amosite 15% Chrysotile	



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EMSL Order ID: 041222382  
Customer ID: WIK50  
Customer PO: 11000  
Project ID:

## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116 and/or EPA 600/M4-82-020

**Client Sample ID:** B08B **Lab Sample ID:** 041222382-0023

**Sample Description:** Maint shop attic un-used insulation in box debris/pipe insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B08C **Lab Sample ID:** 041222382-0024

**Sample Description:** Maint shop attic un-used insulation in box debris/pipe insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B09A **Lab Sample ID:** 041222382-0025

**Sample Description:** Maint shop attic from garage to int connection cha/4" pipe insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Gray	0%	80%	5% Amosite 15% Chrysotile	

**Client Sample ID:** B09B **Lab Sample ID:** 041222382-0026

**Sample Description:** Maint shop attic from garage to int connection cha/4" pipe insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B09C **Lab Sample ID:** 041222382-0027

**Sample Description:** Maint shop attic from garage to int connection cha/4" pipe insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B10A **Lab Sample ID:** 041222382-0028

**Sample Description:** Boiler room, office, screening room/2" corrugated pipe insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	70%	15%	15% Chrysotile	

**Client Sample ID:** B10B **Lab Sample ID:** 041222382-0029

**Sample Description:** Boiler room, office, screening room/2" corrugated pipe insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B10C **Lab Sample ID:** 041222382-0030

**Sample Description:** Boiler room, office, screening room/2" corrugated pipe insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)



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## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116 and/or EPA 600/M4-82-020

**Client Sample ID:** B11A **Lab Sample ID:** 041222382-0031

**Sample Description:** Assoc with 1" brown wrap fiberglass lines front of/mudded elbow and joints

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Gray	30%	65%	5% Chrysotile	

**Client Sample ID:** B11B **Lab Sample ID:** 041222382-0032

**Sample Description:** Assoc with 1" brown wrap fiberglass lines front of/mudded elbow and joints

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012				Stop Positive (Not Analyzed)	

**Client Sample ID:** B11C **Lab Sample ID:** 041222382-0033

**Sample Description:** Assoc with 1" brown wrap fiberglass lines front of/mudded elbow and joints

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012				Stop Positive (Not Analyzed)	

**Client Sample ID:** B12A **Lab Sample ID:** 041222382-0034

**Sample Description:** Computer room and bathrooms 2nd floor/sheet good (sandstone pattern)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	White	45%	55%	None Detected	

**Client Sample ID:** B12B **Lab Sample ID:** 041222382-0035

**Sample Description:** Computer room and bathrooms 2nd floor/sheet good (sandstone pattern)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	White	45%	55%	None Detected	

**Client Sample ID:** B12C **Lab Sample ID:** 041222382-0036

**Sample Description:** Computer room and bathrooms 2nd floor/sheet good (sandstone pattern)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	White	35%	65%	None Detected	

**Client Sample ID:** B13A **Lab Sample ID:** 041222382-0037

**Sample Description:** Computer room and bathrooms 2nd floor/mastic assoc with HA12

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Yellow	0%	100%	None Detected	

**Client Sample ID:** B13B **Lab Sample ID:** 041222382-0038

**Sample Description:** Computer room and bathrooms 2nd floor/mastic assoc with HA12

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Yellow	0%	100%	None Detected	



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## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116 and/or EPA 600/M4-82-020

**Client Sample ID:** B13C **Lab Sample ID:** 041222382-0039

**Sample Description:** Computer room and bathrooms 2nd floor/mastic assoc with HA12

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Yellow	0%	100%	None Detected	

**Client Sample ID:** B14A **Lab Sample ID:** 041222382-0040

**Sample Description:** Throughout as drop ceiling 1st & 2nd floor/ceiling tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Gray/White	80%	20%	None Detected	

**Client Sample ID:** B14B **Lab Sample ID:** 041222382-0041

**Sample Description:** Throughout as drop ceiling 1st & 2nd floor/ceiling tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Gray/White	80%	20%	None Detected	

**Client Sample ID:** B14C **Lab Sample ID:** 041222382-0042

**Sample Description:** Throughout as drop ceiling 1st & 2nd floor/ceiling tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Gray/White	75%	25%	None Detected	

**Client Sample ID:** B15A **Lab Sample ID:** 041222382-0043

**Sample Description:** Throughout as finished walls/drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	15%	85%	None Detected	

**Client Sample ID:** B15B **Lab Sample ID:** 041222382-0044

**Sample Description:** Throughout as finished walls/drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	15%	85%	None Detected	

**Client Sample ID:** B15C **Lab Sample ID:** 041222382-0045

**Sample Description:** Throughout as finished walls/drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	17%	83%	None Detected	

**Client Sample ID:** B16A **Lab Sample ID:** 041222382-0046

**Sample Description:** Throughout as finished walls/joint compound assoc with HA15

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	White	0%	100%	None Detected	

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## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116 and/or EPA 600/M4-82-020

**Client Sample ID:** B16B **Lab Sample ID:** 041222382-0047

**Sample Description:** Throughout as finished walls/joint compound assoc with HA15

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	White	0%	100%	None Detected	

**Client Sample ID:** B16C **Lab Sample ID:** 041222382-0048

**Sample Description:** Throughout as finished walls/joint compound assoc with HA15

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	White	0%	100%	None Detected	

**Client Sample ID:** B17A **Lab Sample ID:** 041222382-0049

**Sample Description:** Behind drywall in 2nd floor computer room/fiberboard

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/Black	95%	5%	None Detected	

**Client Sample ID:** B17B **Lab Sample ID:** 041222382-0050

**Sample Description:** Behind drywall in 2nd floor computer room/fiberboard

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/Black	90%	10%	None Detected	

**Client Sample ID:** B17C **Lab Sample ID:** 041222382-0051

**Sample Description:** Behind drywall in 2nd floor computer room/fiberboard

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/Black	95%	5%	None Detected	

**Client Sample ID:** B18A **Lab Sample ID:** 041222382-0052

**Sample Description:** Small flat roof accessed on 2nd floor office/roofing tar thin coat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Tan/Black	0%	95%	5% Chrysotile	

**Client Sample ID:** B18B **Lab Sample ID:** 041222382-0053

**Sample Description:** Small flat roof accessed on 2nd floor office/roofing tar thin coat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B18C **Lab Sample ID:** 041222382-0054

**Sample Description:** Small flat roof accessed on 2nd floor office/roofing tar thin coat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)



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## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116 and/or EPA 600/M4-82-020

**Client Sample ID:** B19A **Lab Sample ID:** 041222382-0055

**Sample Description:** Small flat roof accessed on 2nd floor office/felt paper

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Black	60%	35%	5% Chrysotile	

**Client Sample ID:** B19B **Lab Sample ID:** 041222382-0056

**Sample Description:** Small flat roof accessed on 2nd floor office/felt paper

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012				Stop Positive (Not Analyzed)	

**Client Sample ID:** B19C **Lab Sample ID:** 041222382-0057

**Sample Description:** Small flat roof accessed on 2nd floor office/felt paper

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012				Stop Positive (Not Analyzed)	

**Client Sample ID:** B20A **Lab Sample ID:** 041222382-0058

**Sample Description:** Low roof, top layer/silver coat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Silver	0%	97%	3% Chrysotile	
400 PLM Pt Ct	8/25/2012	Silver	0%	98.50%	1.50% Chrysotile	

**Client Sample ID:** B20B **Lab Sample ID:** 041222382-0059

**Sample Description:** Low roof, top layer/silver coat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012				Stop Positive (Not Analyzed)	

**Client Sample ID:** B20C **Lab Sample ID:** 041222382-0060

**Sample Description:** Low roof, top layer/silver coat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012				Stop Positive (Not Analyzed)	
400 PLM Pt Ct	8/25/2012				Stop Positive (Not Analyzed)	

**Client Sample ID:** B21A **Lab Sample ID:** 041222382-0061

**Sample Description:** Low roof 2nd layer/asphalt rolled roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Black	30%	70%	None Detected	

**Client Sample ID:** B21B **Lab Sample ID:** 041222382-0062

**Sample Description:** Low roof 2nd layer/asphalt rolled roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Black	30%	70%	None Detected	



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## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116 and/or EPA 600/M4-82-020

**Client Sample ID:** B21C

**Lab Sample ID:** 041222382-0063

**Sample Description:** Low roof 2nd layer/asphalt rolled roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Black	25%	75%	None Detected	

**Client Sample ID:** B22A

**Lab Sample ID:** 041222382-0064

**Sample Description:** Mid roof 1st layer under stone/silver coat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Silver	0%	98%	2% Chrysotile	
400 PLM Pt Ct	8/25/2012	Silver	0%	97.25%	2.75% Chrysotile	

**Client Sample ID:** B22B

**Lab Sample ID:** 041222382-0065

**Sample Description:** Mid roof 1st layer under stone/silver coat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012				Stop Positive (Not Analyzed)	

**Client Sample ID:** B22C

**Lab Sample ID:** 041222382-0066

**Sample Description:** Mid roof 1st layer under stone/silver coat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012				Stop Positive (Not Analyzed)	
400 PLM Pt Ct	8/25/2012				Stop Positive (Not Analyzed)	

**Client Sample ID:** B23A

**Lab Sample ID:** 041222382-0067

**Sample Description:** Mid roof 2nd layer under stone/asphalt built up roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Black	0%	100%	None Detected	

**Client Sample ID:** B23B

**Lab Sample ID:** 041222382-0068

**Sample Description:** Mid roof 2nd layer under stone/asphalt built up roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Black	0%	100%	None Detected	

**Client Sample ID:** B23C

**Lab Sample ID:** 041222382-0069

**Sample Description:** Mid roof 2nd layer under stone/asphalt built up roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Black	0%	100%	None Detected	

**Client Sample ID:** B24A

**Lab Sample ID:** 041222382-0070

**Sample Description:** Mid roof around equipment and penetrations/built up silver flashing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Silver	0%	97%	3% Chrysotile	
400 PLM Pt Ct	8/25/2012	Silver	0%	97.25%	2.75% Chrysotile	



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## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116 and/or EPA 600/M4-82-020

**Client Sample ID:** B24B **Lab Sample ID:** 041222382-0071

**Sample Description:** Mid roof around equipment and penetrations/built up silver flashing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B24C **Lab Sample ID:** 041222382-0072

**Sample Description:** Mid roof around equipment and penetrations/built up silver flashing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)
400 PLM Pt Ct	8/25/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B25A **Lab Sample ID:** 041222382-0073

**Sample Description:** Mid roof duct work (square)/duct outer layer silver coat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Silver	0%	97%	3% Chrysotile	

**Client Sample ID:** B25B **Lab Sample ID:** 041222382-0074

**Sample Description:** Mid roof duct work (square)/duct outer layer silver coat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B25C **Lab Sample ID:** 041222382-0075

**Sample Description:** Mid roof duct work (square)/duct outer layer silver coat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B26A **Lab Sample ID:** 041222382-0076

**Sample Description:** Under HA25/asphalt duct coating

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Black	0%	95%	5% Chrysotile	

**Client Sample ID:** B26B **Lab Sample ID:** 041222382-0077

**Sample Description:** Under HA25/asphalt duct coating

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B26C **Lab Sample ID:** 041222382-0078

**Sample Description:** Under HA25/asphalt duct coating

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)



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## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116 and/or EPA 600/M4-82-020

**Client Sample ID:** B27A **Lab Sample ID:** 041222382-0079

**Sample Description:** Under HA26/cementitious duct insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	White	0%	100%	None Detected	

**Client Sample ID:** B27B **Lab Sample ID:** 041222382-0080

**Sample Description:** Under HA26/cementitious duct insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	White	0%	100%	None Detected	

**Client Sample ID:** B27C **Lab Sample ID:** 041222382-0081

**Sample Description:** Under HA26/cementitious duct insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	White	0%	100%	None Detected	

**Client Sample ID:** B28A **Lab Sample ID:** 041222382-0082

**Sample Description:** Under HA27/fibrous duct insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown	98%	2%	None Detected	

**Client Sample ID:** B28B **Lab Sample ID:** 041222382-0083

**Sample Description:** Under HA27/fibrous duct insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown	95%	5%	None Detected	

**Client Sample ID:** B28C **Lab Sample ID:** 041222382-0084

**Sample Description:** Under HA27/fibrous duct insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Yellow	98%	2%	None Detected	

**Client Sample ID:** B29A **Lab Sample ID:** 041222382-0085

**Sample Description:** High roof 1st layer/silver coat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Silver	0%	97%	3% Chrysotile	

**Client Sample ID:** B29B **Lab Sample ID:** 041222382-0086

**Sample Description:** High roof 1st layer/silver coat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)



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## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116 and/or EPA 600/M4-82-020

**Client Sample ID:** B29C **Lab Sample ID:** 041222382-0087

**Sample Description:** High roof 1st layer/silver coat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B30A **Lab Sample ID:** 041222382-0088

**Sample Description:** Under HA29/asphalt rolled roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Black	0%	94%	6% Chrysotile	

**Client Sample ID:** B30B **Lab Sample ID:** 041222382-0089

**Sample Description:** Under HA29/asphalt rolled roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B30C **Lab Sample ID:** 041222382-0090

**Sample Description:** Under HA29/asphalt rolled roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B31A **Lab Sample ID:** 041222382-0091

**Sample Description:** Under HA30/roofing felt

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Black	60%	40%	None Detected	

**Client Sample ID:** B31B **Lab Sample ID:** 041222382-0092

**Sample Description:** Under HA30/roofing felt

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Black	70%	30%	None Detected	

**Client Sample ID:** B31C **Lab Sample ID:** 041222382-0093

**Sample Description:** Under HA30/roofing felt

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Black	70%	30%	None Detected	

**Client Sample ID:** B32A **Lab Sample ID:** 041222382-0094

**Sample Description:** (10) 2'x3' original wood framed windows/window glaze

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Tan/White	0%	100%	None Detected	

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<http://www.emsl.com> / [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order ID: 041222382  
Customer ID: WIK50  
Customer PO: 11000  
Project ID:

## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116 and/or EPA 600/M4-82-020

**Client Sample ID:** B32B **Lab Sample ID:** 041222382-0095

**Sample Description:** (10) 2'x3' original wood framed windows/window glaze

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Tan/White	0%	100%	None Detected	

**Client Sample ID:** B32C **Lab Sample ID:** 041222382-0096

**Sample Description:** (10) 2'x3' original wood framed windows/window glaze

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Tan/White	0%	100%	None Detected	

**Client Sample ID:** B33A **Lab Sample ID:** 041222382-0097

**Sample Description:** 2x2 metal duct in metal/ boiler rooms/duct board coating

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	White	0%	90%	10% Chrysotile	

**Client Sample ID:** B33B **Lab Sample ID:** 041222382-0098

**Sample Description:** 2x2 metal duct in metal/ boiler rooms/duct board coating

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012				Stop Positive (Not Analyzed)	

**Client Sample ID:** B33C **Lab Sample ID:** 041222382-0099

**Sample Description:** 2x2 metal duct in metal/ boiler rooms/duct board coating

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012				Stop Positive (Not Analyzed)	

**Client Sample ID:** B34A **Lab Sample ID:** 041222382-0100

**Sample Description:** Associated with air handling units in metal room/vibration damper

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	White/Black	40%	60%	None Detected	

**Client Sample ID:** B34B **Lab Sample ID:** 041222382-0101

**Sample Description:** Associated with air handling units in metal room/vibration damper

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	White/Black	50%	50%	None Detected	

**Client Sample ID:** B34C **Lab Sample ID:** 041222382-0102

**Sample Description:** Associated with air handling units in metal room/vibration damper

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Black	40%	60%	None Detected	



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Customer PO: 11000  
Project ID:

## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116 and/or EPA 600/M4-82-020

**Client Sample ID:** B35A **Lab Sample ID:** 041222382-0103

**Sample Description:** Throughout ass w/ all carpeted areas/carpet mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Yellow	0%	100%	None Detected	

**Client Sample ID:** B35B **Lab Sample ID:** 041222382-0104

**Sample Description:** Throughout ass w/ all carpeted areas/carpet mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Yellow	0%	100%	None Detected	

**Client Sample ID:** B35C **Lab Sample ID:** 041222382-0105

**Sample Description:** Throughout ass w/ all carpeted areas/carpet mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Yellow	0%	100%	None Detected	

**Client Sample ID:** B36A **Lab Sample ID:** 041222382-0106

**Sample Description:** Front office area/sheet good

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Tan/White	0%	92%	8% Chrysotile	

**Client Sample ID:** B36B **Lab Sample ID:** 041222382-0107

**Sample Description:** Front office area/sheet good

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B36C **Lab Sample ID:** 041222382-0108

**Sample Description:** Front office area/sheet good

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B37A **Lab Sample ID:** 041222382-0109

**Sample Description:** Front office area/masticv ass. w/ HA37

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Yellow	0%	100%	None Detected	

**Client Sample ID:** B37B **Lab Sample ID:** 041222382-0110

**Sample Description:** Front office area/masticv ass. w/ HA37

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Yellow	0%	100%	None Detected	



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EMSL Order ID: 041222382  
Customer ID: WIK50  
Customer PO: 11000  
Project ID:

## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116 and/or EPA 600/M4-82-020

**Client Sample ID:** B37C **Lab Sample ID:** 041222382-0111

**Sample Description:** Front office area/masticv ass. w/ HA37

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Yellow	0%	100%	None Detected	

**Client Sample ID:** B38A **Lab Sample ID:** 041222382-0112

**Sample Description:** Front office area/floor leveler

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Gray	0%	100%	None Detected	

**Client Sample ID:** B38B **Lab Sample ID:** 041222382-0113

**Sample Description:** Front office area/floor leveler

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Gray	0%	100%	None Detected	

**Client Sample ID:** B38C **Lab Sample ID:** 041222382-0114

**Sample Description:** Front office area/floor leveler

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Gray	0%	100%	None Detected	

**Client Sample ID:** B39A **Lab Sample ID:** 041222382-0115

**Sample Description:** Ass. w/ fiberglass lines in sign fabrication room/cloth pipe wrap

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown	100%	0%	None Detected	

**Client Sample ID:** B39B **Lab Sample ID:** 041222382-0116

**Sample Description:** Ass. w/ fiberglass lines in sign fabrication room/cloth pipe wrap

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown	100%	0%	None Detected	

**Client Sample ID:** B39C **Lab Sample ID:** 041222382-0117

**Sample Description:** Ass. w/ fiberglass lines in sign fabrication room/cloth pipe wrap

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown	99%	1%	None Detected	

**Client Sample ID:** B40A **Lab Sample ID:** 041222382-0118

**Sample Description:** Air handler in boiler room/vibration cloth

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	White	0%	20%	80% Chrysotile	



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## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116 and/or EPA 600/M4-82-020

**Client Sample ID:** B40B **Lab Sample ID:** 041222382-0119

**Sample Description:** Air handler in boiler room/vibration cloth

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B40C **Lab Sample ID:** 041222382-0120

**Sample Description:** Air handler in boiler room/vibration cloth

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B41A **Lab Sample ID:** 041222382-0121

**Sample Description:** Air handler connected to 2x2 duct in boiler room/vibration cloth

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	White	0%	20%	80% Chrysotile	

**Client Sample ID:** B41B **Lab Sample ID:** 041222382-0122

**Sample Description:** Air handler connected to 2x2 duct in boiler room/vibration cloth

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B41C **Lab Sample ID:** 041222382-0123

**Sample Description:** Air handler connected to 2x2 duct in boiler room/vibration cloth

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012					Stop Positive (Not Analyzed)

**Client Sample ID:** B42A **Lab Sample ID:** 041222382-0124

**Sample Description:** Boiler/outer jacket boiler insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	98%	2%	None Detected	

**Client Sample ID:** B42B **Lab Sample ID:** 041222382-0125

**Sample Description:** Boiler/outer jacket boiler insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	98%	2%	None Detected	

**Client Sample ID:** B42C **Lab Sample ID:** 041222382-0126

**Sample Description:** Boiler/outer jacket boiler insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	98%	2%	None Detected	

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## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116 and/or EPA 600/M4-82-020

**Client Sample ID:** B43A **Lab Sample ID:** 041222382-0127

**Sample Description:** Boiler/rope gasket

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	95%	5%	None Detected	

**Client Sample ID:** B43B **Lab Sample ID:** 041222382-0128

**Sample Description:** Boiler/rope gasket

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	90%	10%	None Detected	

**Client Sample ID:** B43C **Lab Sample ID:** 041222382-0129

**Sample Description:** Boiler/rope gasket

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	95%	5%	None Detected	

**Client Sample ID:** B44A **Lab Sample ID:** 041222382-0130

**Sample Description:** Boiler/boiler patching

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Gray	0%	100%	None Detected	

**Client Sample ID:** B44B **Lab Sample ID:** 041222382-0131

**Sample Description:** Boiler/boiler patching

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Gray	0%	100%	None Detected	

**Client Sample ID:** B44C **Lab Sample ID:** 041222382-0132

**Sample Description:** Boiler/boiler patching

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Gray	0%	100%	None Detected	

**Client Sample ID:** B45A **Lab Sample ID:** 041222382-0133

**Sample Description:** Boiler room/6" pipe insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	0%	100%	None Detected	

**Client Sample ID:** B45B **Lab Sample ID:** 041222382-0134

**Sample Description:** Boiler room/6" pipe insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	0%	100%	None Detected	



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EMSL Order ID: 041222382  
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Project ID:

## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116 and/or EPA 600/M4-82-020

**Client Sample ID:** B45C **Lab Sample ID:** 041222382-0135

**Sample Description:** Boiler room/6" pipe insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	0%	100%	None Detected	

**Client Sample ID:** B46A **Lab Sample ID:** 041222382-0136

**Sample Description:** Ass. w/ fire doors in boiler room and sign shop ar/fire door insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown	98%	2%	None Detected	

**Client Sample ID:** B46B **Lab Sample ID:** 041222382-0137

**Sample Description:** Ass. w/ fire doors in boiler room and sign shop ar/fire door insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown	98%	2%	None Detected	

**Client Sample ID:** B46C **Lab Sample ID:** 041222382-0138

**Sample Description:** Ass. w/ fire doors in boiler room and sign shop ar/fire door insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown	99%	1%	None Detected	

**Client Sample ID:** B47A **Lab Sample ID:** 041222382-0139

**Sample Description:** Phone booth area/1x1 CT in phone booth

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	95%	5%	None Detected	

**Client Sample ID:** B47B **Lab Sample ID:** 041222382-0140

**Sample Description:** Phone booth area/1x1 CT in phone booth

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	95%	5%	None Detected	

**Client Sample ID:** B47C **Lab Sample ID:** 041222382-0141

**Sample Description:** Phone booth area/1x1 CT in phone booth

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Brown/White	95%	5%	None Detected	

**Client Sample ID:** B48A **Lab Sample ID:** 041222382-0142

**Sample Description:** Mens/ womens bathroom on office area/sheet good grey stone pattern

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Gray	5%	95%	None Detected	

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Project ID:

## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116 and/or EPA 600/M4-82-020

**Client Sample ID:** B48B **Lab Sample ID:** 041222382-0143

**Sample Description:** Mens/ womens bathroom on office area/sheet good grey stone pattern

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Gray	5%	95%	None Detected	

**Client Sample ID:** B48C **Lab Sample ID:** 041222382-0144

**Sample Description:** Mens/ womens bathroom on office area/sheet good grey stone pattern

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Gray	5%	95%	None Detected	

**Client Sample ID:** B49A **Lab Sample ID:** 041222382-0145

**Sample Description:** Mens/ womens bathroom on office area/mastic ass. w/ HA48

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Yellow	0%	100%	None Detected	

**Client Sample ID:** B49B **Lab Sample ID:** 041222382-0146

**Sample Description:** Mens/ womens bathroom on office area/mastic ass. w/ HA48

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Yellow	0%	100%	None Detected	

**Client Sample ID:** B49C **Lab Sample ID:** 041222382-0147

**Sample Description:** Mens/ womens bathroom on office area/mastic ass. w/ HA48

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/23/2012	Yellow	0%	100%	None Detected	

### Analyst(s)

Adam Gart	PLM	(43)
Andrew Castellano	400 PLM Pt Ct	(1)
Christina Walker	PLM	(8)
Christopher Mercer	PLM	(50)
Frank Dicrescenzo	400 PLM Pt Ct	(5)

Stephen Siegel, CIH, Laboratory Manager  
or other Approved Signatory

Any questions please contact Steve Siegel.

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036

Report amended: 08/25/2012 14:11:22 Replaces initial report from: 08/23/2012 22:29:12 Reason Code: Client-Additional Analysis

# Chain of Custody - Asbestos Lab Services

<b>Company:</b>	BrightFields, Inc.	<b>Bill To:</b>	BrightFields, Inc.
<b>Address1:</b>	801 Industrial Street	<b>Address1:</b>	801 Industrial Street
<b>Address2:</b>	Suite 1	<b>Address2:</b>	Suite 1
<b>City, State:</b>	Wilmington, Delaware	<b>City, State:</b>	Wilmington, Delaware
<b>Zip/Post Code:</b>	19801	<b>Zip/Post Code:</b>	19801
<b>Contact Name:</b>	<u>Jason Sunde</u>	<b>Attn:</b>	<u>Jason Sunde</u>
<b>Phone:</b>	(302) 656-9600	<b>Phone:</b>	(302) 656-9600
<b>Fax:</b>	(302) 656-9700	<b>Fax:</b>	(302) 656-9700
<b>EMSL Rep:</b>	John Van Voorhees	<b>P.O. Number:</b>	<u>11000</u>
<b>Project Name/Number:</b>	<u>2680, 27.74</u>		

041222382

### MATRIX

### TURNAROUND

<input checked="" type="checkbox"/> Air	<input type="checkbox"/> Soil	<input type="checkbox"/> Micro-Vac	<input type="checkbox"/> 3 Hours	<input type="checkbox"/> 6 Hours	<input checked="" type="checkbox"/> Same Day or 12 Hours*	<input checked="" type="checkbox"/> 24 Hours (1 day)
<input checked="" type="checkbox"/> Bulk	<input type="checkbox"/> Drinking Water	<input type="checkbox"/>	<input type="checkbox"/> 48 Hours (2 days)	<input type="checkbox"/> 72 Hours (3 days)	<input type="checkbox"/> 96 Hours (4 days)	<input type="checkbox"/> 120 Hours (5 days)
<input type="checkbox"/> Wipe	<input type="checkbox"/> Wastewater	<input type="checkbox"/>	<input type="checkbox"/> 144+ hours (6-10 days)			

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3-hour tat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign an authorization form for this service.

\*12 hours (must arrive by 11:00a.m. Mon - Fri), Please Refer to Price Quote

<b>PCM - Air</b>	<b>TEM Air</b>	<b>TEM WATER</b>
<input type="checkbox"/> NIOSH 7400(A) Issue 2: August 1994	<input type="checkbox"/> AHERA 40 CFR, Part 763 Subpart E	<input type="checkbox"/> EPA 100.1
<input type="checkbox"/> OSHA w/TWA	<input type="checkbox"/> NIOSH 7402	<input type="checkbox"/> EPA 100.2
<input type="checkbox"/> Other:	<input type="checkbox"/> EPA Level II	<input type="checkbox"/> NYS 198.2
<input checked="" type="checkbox"/> <b>PLM - Bulk</b>	<b>TEM BULK</b>	<b>TEM Microvac/Wipe</b>
<input type="checkbox"/> EPA 600/R-93/116	<input type="checkbox"/> Drop Mount (Qualitative)	<input type="checkbox"/> ASTM D 5755-95 (quantitative method)
<input type="checkbox"/> EPA Point Count	<input type="checkbox"/> Chatfield SOP - 1988-02	<input type="checkbox"/> Wipe Qualitative
<input type="checkbox"/> NY Stratified Point Count	<input type="checkbox"/> TEM NOB (Gravimetric) NYS 198.4	
<input type="checkbox"/> PLM NOB (Gravimetric) NYS 198.1	<input type="checkbox"/> EMSL Standard Addition:	<b>XRD</b>
<input type="checkbox"/> NIOSH 9002:		<input type="checkbox"/> Asbestos
<input type="checkbox"/> EMSL Standard Addition:	<b>PLM Soil</b>	<input type="checkbox"/> Silica NIOSH 7500
<b>SEM Air or Bulk</b>	<input type="checkbox"/> EPA Protocol Qualitative	<b>OTHER</b>
<input type="checkbox"/> Qualitative	<input type="checkbox"/> EPA Protocol Quantitative	<input type="checkbox"/>
<input type="checkbox"/> Quantitative	<input type="checkbox"/> EMSL MSD 9000 Method fibers/gram	

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12 AUG 23 AM 11:34

147 KP

<b>Client Sample # (s)</b>	<u>B01A B49C</u>	<b>Total Samples #:</b>	<u>147</u>
<b>Relinquished:</b>	<u>[Signature]</u>	<b>Date:</b>	<u>8-22-12</u>
<b>Received:</b>	<u>VC [Signature]</u>	<b>Date:</b>	<u>8/23/12</u>
<b>Relinquished:</b>	_____	<b>Date:</b>	_____
<b>Received:</b>	_____	<b>Date:</b>	_____
		<b>Time:</b>	<u>1400</u>
		<b>Time:</b>	<u>10:10</u>
		<b>Time:</b>	_____
		<b>Time:</b>	_____

**STOP ANALYSIS AT FIRST POSITIVE RESULT OF A HOMOGENOUS AREA**

147B



**BrightFields, Inc.**  
Environmental Services

041222382

**BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM**

**PROJECT INFORMATION**

Client: <b>SeiDot</b>		Project Name: <b>Hanger Bldg</b>		Project No.: <b>2680.27.74</b>		Project B.I.: <b>Jason Sunde</b>	
Date: <b>8-21-12</b>		Building Name:		Turnaround Time:		Comments:	
Sampling Area:		<input type="checkbox"/> RUSH <input checked="" type="checkbox"/> 24 HRS <input type="checkbox"/> 72 HRS		<input type="checkbox"/> 6 HRS <input type="checkbox"/> 48 HRS <input type="checkbox"/> Other _____		Purchase Order No. <b>11000</b>	

**SAMPLE INFORMATION**

HA Area No.	Bulk Sample ID No.	Material Description	Color	Condition	Suspect ACM Sample Locations / Coordinates	Material Total Quantity (LF, SF, PCS)	Asbestos Content Type & %
HA01	B01A B01B B01C	Silver Roof Coat	Silver	g	Coating on metal arched roof (main outer roof)		
HA02	B02A B02B B02C	Cementitious Siding Panels	grey	g	4'x8' 1/2" thick panels front-rear office paint booth area		
HA03	B03A B03B B03C	Cementitious Vent Hood and Duct	grey	g	2' dia duct 65' ext. 1 1/2' dia duct 27' ext, 18' int. 3x2 1x2 2x2x2 vent hood		
HA04	B04A B04B B04C	Joint Caulk assoc. with HA03	beige/red	g	15 ext. joints 6 int. joints	caulk & rope @ connection	
HA05	B05A B05B B05C	Rope Gasket assoc with HA03 and HA04	white	g	SA HA04		

**CHAIN OF CUSTODY**

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Method of Submittal
<i>[Signature]</i>	8-21-12	1400				Field
I.						Field
II.						Walk in
III.						US Mail
IV.						Fed Ex
V.						Other: XXXXXXXX

**LAB INFORMATION**

Name and Signature:	Date:	Time:
Analyzed by:		
Analyzed by:		
QC by:		

Email Results:  
mkrough@brightfieldsinc.com  
Attention: Monty Krough, Sr.  
801 Industrial Street, Suite 1  
Wilmington, DE 19801

!!!! STOP ANALYSIS AT FIRST POSITIVE RESULT OF A HOMOGENOUS AREA !!!!

041222382



**BrightFields, Inc.**  
Environmental Services

**BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM**

**PROJECT INFORMATION**

Client: <b>JelDot</b>		Project Name: <b>Hanger Bldg</b>		Project No.: <b>2680.27.74</b>		Project B.I.: <b>Jason Surde</b>	
Date: <b>8.21.12</b>		Building Name:		Turnaround Time:		Comments:	
Sampling Area:		<input type="checkbox"/> RUSH <input checked="" type="checkbox"/> 24 HRS <input type="checkbox"/> 72 HRS		<input type="checkbox"/> 6 HRS <input type="checkbox"/> 48 HRS <input type="checkbox"/> Other _____		Purchase Order No. <b>11000</b>	

**SAMPLE INFORMATION**

HA Area No.	Bulk Sample ID No.	Material Description	Color	Condition	Suspect ACM Sample Locations / Coordinates	Material Total Quantity (LF, SF, PCS)	Asbestos Content Type & %
HA06	B06A	Vibration Damper	gray	g	Roof side e duct	8 SF	
	B06B	Cloth assoc.	white		at blower inlet and		
	B06C	with HA03			out let		
HA07	B07A	Sheetgood	gray	g	Maint. Shop Office		
	B07B	(green/black marble)	white		under carpet in front office		
	B07C						
HA08	B08A	Pipe Insulation	white	g	Maint. Shop Attic	~ 15 SF of debris near	
	B08B				unused insulation in box	3x12" pipe sections	
	B08C				debris on Attic Floor		
HA09	B09A	4" Pipe Insulation	white	g	Maint. Shop Attic from		
	B09B		gray		garage to int. connection		
	B09C				changes to fiberglass on int. side of wall		
HA10	B10A	2" Currgate	gray	g	Boiler Room, Office,		
	B10B	Pipe Insulation	white		Screening Room		
	B10C						

**CHAIN OF CUSTODY**

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Method of Submittal
I. <i>[Signature]</i>	8-22-12	1400				Field
II.						Walk in
III.						US Mail
IV.						Fed Ex
V.						Other: XXXXXXXX

**LAB INFORMATION**

Name and Signature:	Date:	Time:
Analyzed by:		
Analyzed by:		
QC by:		

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[mkrough@brightfieldsinc.com](mailto:mkrough@brightfieldsinc.com)  
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 Wilmington, DE 19801

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**BrightFields, Inc.**  
Environmental Services

041222382

**BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM**

**PROJECT INFORMATION**

Client: <b>D. IDot</b>		Project Name: <b>Hanger Bldg</b>		Project No.: <b>2680.27.74</b>		Project B.I.: <b>Jason Sunde</b>	
Date: <b>8-21-12</b>		Building Name:		Turnaround Time:		Comments:	
Sampling Area:		<input type="checkbox"/> RUSH <input checked="" type="checkbox"/> 24 HRS <input type="checkbox"/> 72 HRS		<input type="checkbox"/> 6 HRS <input type="checkbox"/> 48 HRS <input type="checkbox"/> Other _____		Purchase Order No. <b>11000</b>	

**SAMPLE INFORMATION**

HA Area No.	Bulk Sample ID No.	Material Description	Color	Condition	Suspect ACM Sample Locations / Coordinates	Material Total Quantity (LF, SF, PCS)	Asbestos Content Type & %
HA11	B11A B11B B11C	Mudded Elbow and Joints	grey	g	Assoc. with 1" Brown wrap fiberglass lines front office area	Screening Room Above bath in front office 1 <sup>st</sup> Floor Boiler Room	
HA12	B12A B12B B12C	Sheetgood (sandstone pattern)	white/ grey	g	Computer Room and Bathrooms 2 <sup>nd</sup> Floor		
HA13	B13A B13B B13C	Mastic assoc. with HA12	yellow	g	SA HA12		
HA14	B14A B14B B14C	Ceiling Tile	grey	g	throughout as drop ceiling 1 <sup>st</sup> & 2 <sup>nd</sup> Floor	12 AUG 23 AM 11:34	
HA15	B15A B15B B15C	Drywall	grey	g	throughout as finished walls		

**CHAIN OF CUSTODY**

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Method of Submittal
<i>[Signature]</i>	8-22-12	1400				Field
I.						Field
II.						Walk in
III.						US Mail
IV.						Fed Ex
V.						Other: XXXXXXXX

**LAB INFORMATION**

Name and Signature:	Date:	Time:
Analyzed by:		
Analyzed by:		
QC by:		

Email Results:  
[mkrough@brightfieldsinc.com](mailto:mkrough@brightfieldsinc.com)  
Attention: Monty Krough, Sr.  
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Wilmington, DE 19801

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**BrightFields, Inc.**  
Environmental Services

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**BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM**

**PROJECT INFORMATION**

Client: <b>D.I. Dot</b>		Project Name: <b>Hanger Bldg</b>	Project No.: <b>2680.27.74</b>	Project B.I.: <b>Jason Sunde</b>
Date: <b>8-21-12</b>		Address: <b>Hanger Bldg</b>	Turnaround Time: <input type="checkbox"/> RUSH <input checked="" type="checkbox"/> 24 HRS <input type="checkbox"/> 72 HRS <input type="checkbox"/> 6 HRS <input type="checkbox"/> 48 HRS <input type="checkbox"/> Other _____	Project M.P.: <b>Jason Sunde</b>
Building Name:		Sampling Area:		Comments:
				Purchase Order No. <b>11000</b>

**SAMPLE INFORMATION**

HA Area No.	Bulk Sample ID No.	Material Description	Color	Condition	Suspect ACM Sample Locations / Coordinates	Material Total Quantity (LF, SF, PCS)	Asbestos Content Type & %
HA16	B16A B16B B16C	Joint Compound assoc. with HA15	white	g	SA HA15		
HA17	B17A B17B B17C	Fiberboard	brown	g	Behind Drywall in 2nd Floor Computer Room		
HA18	B18A B18B B18C	Roofing tar thin coat	black	g	small Flat roof accessed on 2nd Floor Office	12 AUG 23 AM 11:34	
HA19	B19A B19B B19C	Felt paper	black	g	SA HA18		
HA20	B20A B20B B20C	Silver Coat	Silver	g	Low roof, top layer		

**CHAIN OF CUSTODY**

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Method of Submittal
<i>[Signature]</i>	8-22-12	1400				Field
I.						Field
II.						Walk in
III.						US Mail
IV.						Fed Ex
V.						Other: XXXXXXXX

**LAB INFORMATION**

Name and Signature:	Date:	Time:
Analyzed by:		
Analyzed by:		
QC by:		

Email Results:  
[mkrough@brightfieldsinc.com](mailto:mkrough@brightfieldsinc.com)  
 Attention: Monty Krough, Sr.  
 801 Industrial Street, Suite 1  
 Wilmington, DE 19801

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**BrightFields, Inc.**  
Environmental Services

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BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

**PROJECT INFORMATION**

Client: <b>DelDot</b>		Project Name: <b>Hanga Bldg</b>	Project No.: <b>268027H</b>	Project B.I.: <b>Jason Sundt</b>
Date: <b>8-21-12</b>		Address: <b>Hanga Bldg</b>	Turnaround Time: <input type="checkbox"/> RUSH <input checked="" type="checkbox"/> 24 HRS <input type="checkbox"/> 72 HRS <input type="checkbox"/> 6 HRS <input type="checkbox"/> 48 HRS <input type="checkbox"/> Other _____	Project M.P.: <b>Sundt</b>
Building Name:		Sampling Area:		Comments:
				Purchase Order No. <b>11000</b>

**SAMPLE INFORMATION**

HA Area No.	Bulk Sample ID No.	Material Description	Color	Condition	Suspect ACM Sample Locations / Coordinates	Material Total Quantity (LF, SF, PCS)	Asbestos Content Type & %
HA21	B21A	Asphalt Roofing	Black	g	Low Roof 2nd Layer		
	B21B						
	B21C						
HA22	B22A	Silver Coat	Silver	g	Mid Roof 1 <sup>st</sup> layer under Stone		
	B22B						
	B22C						
HA23	B23A	Asphalt built up Roofing	Black	g	Mid Roof 2 <sup>nd</sup> layer under Stone		
	B23B						
	B23C						
HA24	B24A	Built up Silver Flashing	Silver	g	Mid Roof around equipment and penetrations		
	B24B						
	B24C						
HA25	B25A	Duct outer layer	<del>Black</del>	g	Mid Roof Ductwork		
	B25B	( <del>Asphalt</del> ) Silver	Silver	g	(Square)		
	B25C	Coat					
HA26	B26A	Asphalt Duct Coatings	Black	g	under HA25		
	B26B						
	B26C						

12 AUG 23 AM 1:34

**CHAIN OF CUSTODY**

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Method of Submittal
<i>[Signature]</i>	<b>8-21-12</b>	<b>1400</b>				Field
I.						Walk in
II.						US Mail
III.						Fed Ex
IV.						Other: XXXXXXXX
V.						

**LAB INFORMATION**

Name and Signature:		Date:		Time:	
Analyzed by:					
Analyzed by:					
QC by:					

Email Results:  
[mkrough@brightfieldsinc.com](mailto:mkrough@brightfieldsinc.com)  
 Attention: Monty Krough, Sr.  
 801 Industrial Street, Suite 1  
 Wilmington, DE 19801

**!!!! STOP ANALYSIS AT FIRST POSITIVE RESULT OF A HOMOGENOUS AREA !!!!**



**BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM**

**PROJECT INFORMATION**

Client: <b>SulDot</b>		Project Name: <b>Hanger Bldg</b>		Project No.: <b>2680.2774</b>		Project B.I.: <b>Jason Sunde</b>	
Date: <b>8-21-12</b>		Address: <b>Newport, Delaware</b>		Turnaround Time: <input type="checkbox"/> RUSH <input checked="" type="checkbox"/> 24 HRS <input type="checkbox"/> 72 HRS <input type="checkbox"/> 6 HRS <input type="checkbox"/> 48 HRS <input type="checkbox"/> Other _____		Comments:	
Building Name:		Sampling Area:		Purchase Order No. <b>11000</b>			

**SAMPLE INFORMATION**

HA Area No.	Bulk Sample ID No.	Material Description	Color	Condition	Suspect ACM Sample Locations / Coordinates	Material Total Quantity (LF, SF, PCS)	Asbestos Content Type & %
HA27	B27A	Cementitious	Grey	g	Under HA26		
	B27B	Duct Insulation					
	B27C						
HA28	B28A	Fibrous Duct	Brown	g	Under HA27		
	B28B	Insulation					
	B28C						
HA29	B29A	Silver Coat	Silver	g	High Roof 1st Layer		
	B29B						
	B29C						
HA30	B30A	Asphalt Rolled	Black	g	Under HA29		
	B30B	Roofing					
	B30C						
HA31	B31A	Roofing Felt	Black	g	Under HA30		
	B31B						
	B31C						
HA32	B32A	Window Glaze	White	g	(10) 2x3' original wood framed windows		
	B32B						
	B32C						

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**CHAIN OF CUSTODY**

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Method of Submittal
<i>[Signature]</i>	8-22-12	1400				Field
I.						Field
II.						Walk in
III.						US Mail
IV.						Fed Ex
V.						Other: XXXXXXXX

**LAB INFORMATION**

Name and Signature:	Date:	Time:
Analyzed by:		
Analyzed by:		
QC by:		

Verbal Results: (302) 656-9600  
 Fax Results: (302) 656-9700  
 Attention: Monty Krough, Sr.  
 801 Industrial Street, Suite 1  
 Wilmington, DE 19801

**!!!! ANALYZE ALL SAMPLES WITHIN EACH HOMOGENOUS AREA !!!!**



**BrightFields, Inc.**  
Environmental Services

**BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM**

**PROJECT INFORMATION**

Client: <b>DelDot</b>	Project Name: <b>Hanger Bldg</b>	Project No.: <b>268-27-74</b>	Project B.I.: <b>Jason Sunk</b>
Date: <b>8-21-12</b>	Building Name:	Address: <b>Newport, Delaware</b>	Project M.P.:
	Sampling Area:	Turnaround Time: <input type="checkbox"/> RUSH <input checked="" type="checkbox"/> 24 HRS <input type="checkbox"/> 72 HRS <input type="checkbox"/> 6 HRS <input type="checkbox"/> 48 HRS <input type="checkbox"/> Other _____	Comments:
			Purchase Order No. <b>11600</b>

**SAMPLE INFORMATION**

HA Area No.	Bulk Sample ID No.	Material Description	Color	Condition	Suspect ACM Sample Locations / Coordinates	Material Total Quantity (LF, SF, PCS)	Asbestos Content Type & %
HA33	B33A B33B B33C	Duct Board Coating	White	g	2x2 metal Duct in Metal/Boiler Rooms		
HA34	B34A B34B B34C	Vibration Damper	Black	g	Associated with air handling units in Metal Room		
HA35	B35A B35B B35C	Cerpeb Mastie	Yellow	g	Throughtout ass w/ all Cerpebed areas		
HA36	B36A B36B B36C	Sheel Good	White	g	Front office area		
HA37	B37A B37B B37C	Mastie ass. w/ HA37	Yellow	g	SA HA37		
HA38	B38A B38B B38C	Flour leveler	Gray	g	Front office area		

12 AUG 28 AM 11:34

**CHAIN OF CUSTODY**

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Method of Submittal
<i>[Signature]</i>	8/22/12	1400				Field
I.						Field
II.						Walk in
III.						US Mail
IV.						Fed Ex
V.						Other: XXXXXXXX

**LAB INFORMATION**

Name and Signature:	Date:	Time:
Analyzed by:		
Analyzed by:		
QC by:		

Verbal Results: (302) 656-9600  
 Fax Results: (302) 656-9700  
 Attention: Monty Krough, Sr.  
 801 Industrial Street, Suite 1  
 Wilmington, DE 19801

**!!!! ANALYZE ALL SAMPLES WITHIN EACH HOMOGENOUS AREA !!!!**



041222382

**PROJECT INFORMATION**

Client: <b>S-1Dot</b>		Project Name: <b>Hanger Bldg</b>	Project No.: <b>2680.27.74</b>	Project B.I.: <b>Jason Sunde</b>
Address: <b>Newport, Delaware</b>		Project M.P.:		
Date: <b>8-21-12</b>	Building Name:	Turnaround Time:	Comments:	
Sampling Area:		<input type="checkbox"/> RUSH <input checked="" type="checkbox"/> 24 HRS <input type="checkbox"/> 72 HRS <input type="checkbox"/> 6 HRS <input type="checkbox"/> 48 HRS <input type="checkbox"/> Other _____		
				Purchase Order No. <b>11000</b>

**SAMPLE INFORMATION**

HA Area No.	Bulk Sample ID No.	Material Description	Color	Condition	Suspect ACM Sample Locations / Coordinates	Material Total Quantity (LF, SF, PCS)	Asbestos Content Type & %
HA39	B39A B39B B39C	Cloth pipe wrap	Cream	g	Ass. w/ Fiberglass lines in sign fabrication room		
HA40	B40A B40B B40C	Vibration Cloth	Black	g	Air handler in boiler room (2x5) (2)	20 SF	
HA41	B41A B41B B41C	Vibration Cloth	Tan	g	Air Handler connected to 2x2 duct in boiler room (3)	12 SF	
HA42	B42A B42B B42C	Outer jacket boiler insulation	Brown	g	Boiler		
HA43	B43A B43B B43C	Rope Gasket	Yellow	g	Boiler		
HA44	B44A B44B B44C	Boiler Patching	Green	g	Boiler		

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**CHAIN OF CUSTODY**

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Method of Submittal
<i>[Signature]</i>	8/21/12	1408				Field
I.						Walk in
II.						US Mail
III.						Fed Ex
IV.						Other: XXXXXXXX
V.						

**LAB INFORMATION**

Name and Signature:	Date:	Time:
Analyzed by:		
Analyzed by:		
QC by:		

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Asbestos-Containing Materials Survey Report  
“Hanger” Building  
800 Bay Road  
Dover, Delaware  
Task No. 27 – Asbestos Management



## **APPENDIX D**

**UNOFFICIAL**  
**SITE PHOTOGRAPHS**  
**WEBSITE**  
**COPY**

**"Hanger" Building  
Asbestos Agreement 1542 \*Task 27\*  
800 Bay Road  
Dover, Delaware  
Task No. 27 – Asbestos Management**



Asbestos-containing cementitious panels along front of building.



Asbestos-containing ventilation duct, HVAC duct coating, and roofing material.



Asbestos-containing ventilation duct, caulking, and rope gasket.



Asbestos-containing ventilation duct and hood in screening room.

**"Hanger" Building  
Asbestos Agreement 1542 \*Task 27\*  
800 Bay Road  
Dover, Delaware  
Task No. 27 – Asbestos Management**



Asbestos-containing silver roof coat and rolled asphalt roof on third level.



Asbestos-containing ventilation duct and silver roof coat on arched roof.



Asbestos-containing cementitious panels along rear of building.



4" cement pipe thermal system insulation in maintenance shop.

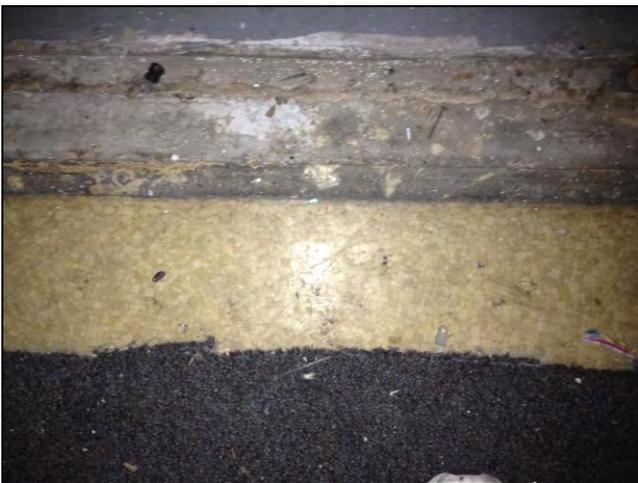
**"Hanger" Building  
Asbestos Agreement 1542 \*Task 27\*  
800 Bay Road  
Dover, Delaware  
Task No. 27 – Asbestos Management**



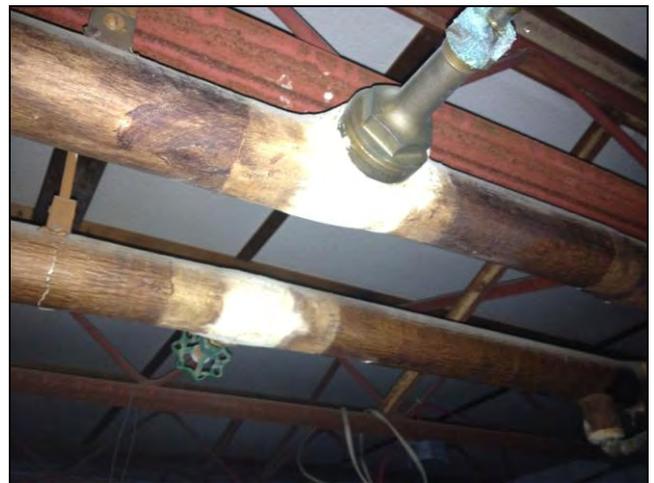
Asbestos-containing unused pipe insulation and debris in maintenance garage attic.



Asbestos-containing unused pipe insulation debris in maintenance garage attic.



Asbestos-containing sheetgood under carpet in front first level office area.



Asbestos-containing mudded elbow/joint associated with brown wrap fiberglass pipe insulation.

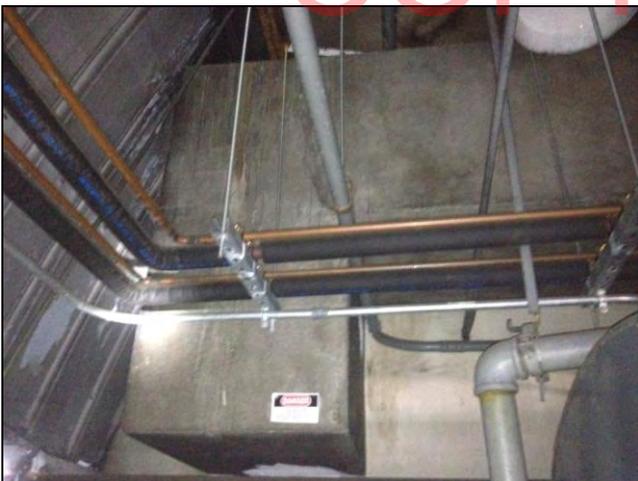
**"Hanger" Building  
Asbestos Agreement 1542 \*Task 27\*  
800 Bay Road  
Dover, Delaware  
Task No. 27 – Asbestos Management**



Asbestos-containing vibration damper cloth associated with large air handling unit in boiler room.



Asbestos-containing vibration damper cloth and 2'x2' duct board coating in boiler room.



Asbestos-containing 2'x2' duct board coating in boiler room.



Typical asbestos-containing pipe thermal system insulation in boiler room.