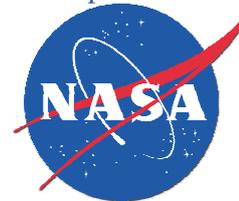




General Asbestos Survey for Asbestos-Containing Materials

Prepared for:



Marshall Space Flight Center, AL

**Building 4619
Marshall Space Flight Center**

GSE - 013

October 31, 2008

Prepared by



**Great Southern Engineering, Inc.
3795 Gordon Terry Parkway
Trinity, Alabama 35673**

TABLE OF CONTENTS

1. Introduction.....	1
2. Summary	3
2.1. Suspect ACMs	4
2.2. Recommendations.....	5
3. Survey Scope	6
4. Limitations.....	7
5. Survey and Sample Collection Procedure.....	8
6. Previous Survey / Plans Review.....	9
7. Suspect ACM Materials Not Sampled	10
8. Survey Sampling Results.....	11
9. Appendices	

1. Introduction

In accordance with GSE Task Order No.GSE-013 dated April 21, 2008, Great Southern Engineering, Inc. (GSE) has performed an asbestos survey of Building 4619 located at George C. Marshall Space Flight Center, Marshall Space Flight Center, Alabama. The 156,397 square feet building was identified to have been originally constructed in 1959. A total of 138 samples were collected from the building.

The objective of the Asbestos Survey is to determine the location and quantity of asbestos-containing materials at the Property building.

GSE's Scope of Work included:

- Visual inspection and identification of suspect asbestos-containing materials (ACMs) in the Property building and collected a representative number of samples for analysis.
- As part of this asbestos survey, GSE personnel collected samples of all suspect friable and suspect damaged non-friable building materials at the Property. The remaining suspect non-friable materials were not be sampled as part of this asbestos survey
- Estimated quantities and locations of ACM.
- Assessed the condition of the ACM identified.
- Assigned a hazard rating to each type of ACM.

This report has been prepared for the use of George C. Marshall Space Flight Center. Our investigation was performed using the degree of care and skill ordinarily exercised under similar circumstances by professional consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the conclusions included in this report.

The GSE, Inc. did not perform destructive sampling procedures at the site; therefore, regardless of the thoroughness of this survey, it is possible that suspected asbestos-containing materials (ACMs) might exist in the building beneath the floors, behind walls, within pipe chases, or in other inaccessible locations. If, during renovation or demolition activities, materials not addressed in this survey are discovered, these materials should be sampled and analyzed for asbestos content prior to disturbance.

Surveyed by:

William F. Ystueta

University of Alabama Safe State Program Accredited Inspector

Accreditation #AIN0508Y6144

Jeff R Smith

University of Alabama Safe State Program Accredited Inspector/Management Planner

Accreditation #APL0408S7033

Written by:



Manju Ramasamudra

University of Alabama Safe State Program Accredited Inspector/Management Planner

Accreditation #APL0308R5089

2. Summary

GSE performed an Asbestos Survey and Hazard Assessment at Building 4619 in Marshall Space Flight Center, Alabama on July 10 and September 20, 2008. Sample collection was completed by licensed personnel – William F. Ystueta and Jeff R Smith. The following report summarizes the independent conclusions representing GSE' best professional judgment based on information and data available to us during the course of this survey. Factual information regarding operations, conditions, and tests data provided by the client, owner or their representative has been assumed to be correct and complete. Additionally, the conclusions presented are based on the conditions that existed on the date(s) of the assessment.

The 156,397 square feet building was identified to have been originally constructed in 1959. A total of 138 samples were collected from the building. Eighteen (18) Homogeneous materials were identified as asbestos-containing materials. A summary of the samples collected for this area and corresponding analytical results is presented below.

Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	100	12" x 12" Floor Tile	Beige Floor Tile	479 SF
Room Number	Grid Numbers			
147A	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			

Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	11	Pipe Insulation	Elbow Insulation on White Pipes	500 Elbow
	Room Number	Grid Numbers		
	133	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	135	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	145	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	145A	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	146	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	147	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	147A	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	147B	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	147C	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	147D	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	148	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	148A	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	149	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	150	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	151	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	152	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	153	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	153A	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	154	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	209	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	211	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	B136	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		

Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	11	Pipe Insulation	Elbow Insulation on White Pipes	500 Elbow
Room Number		Grid Numbers		
B137A		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
B139		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
B139A		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
HEB131WB138		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4		
HEB137WB138		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4		
HEB141WB140		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4		

Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	112	Mastic	Black Wall Mastic	5,000 SF
Room Number	Grid Numbers			
130	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
132	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
134	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
136	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
138	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
140	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
142	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
144	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
144A	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
144B	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
144C	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
200	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
202	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
202A	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
204	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
206	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
208	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
210	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
212	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
214	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
216	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
218	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			

Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	112	Mastic	Black Wall Mastic	5,000 SF
Room Number	Grid Numbers			
220	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			
220A	WF1-1, WF1-2, WF1-3, WF1-4, WF2-1, WF2-2, WF2-3, WF2-4, WF3-1, WF3-2, WF3-3, WF3-4, WF4-1, WF4-2, WF4-3, WF4-4			

Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	124	Mastic	Black Duct mastic	1,400 LF
Room Number	Grid Numbers			
100	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
101	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
101A	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
102	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
103	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
104	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
105	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
106	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
107	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
108	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
109	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
110	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
111	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
112	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
113	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
113A	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
113B	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
113C	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
113D	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
114	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
115	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
116	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			

Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	124	Mastic	Black Duct mastic	1,400 LF
Room Number		Grid Numbers		
117	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
118	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
118A	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
118B	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
118C	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
119	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
119A	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
120	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
121	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
123	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
124	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
124A	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			
124B	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4			

Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	127	9" x 9" Floor Tile	Green with White Streaks	9,665 SF
Room Number		Grid Numbers		
146		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
200		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
201		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
202		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
202A		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
203		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
203A		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
204		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
205		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
206		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
207		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
208		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
208A		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
209		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
210		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
211		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
212		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
213		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
214		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
215		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
216		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
217		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		

Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	127	9" x 9" Floor Tile	Green with White Streaks	9,665 SF
Room Number		Grid Numbers		
218		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
219		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
220		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
220A		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
221		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
222		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
223		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
HE220AW201		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4		

Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	133	Pipe Insulation	with Black Mastic	2,500 LF
Room Number		Grid Numbers		
	133	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	135	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	145	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	145A	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	146	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	147	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	147A	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	147B	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	147C	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	147D	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	148	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	148A	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	149	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	150	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	151	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	152	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	153	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	153A	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	154	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	209	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	211	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
	B136	C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		

Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	133	Pipe Insulation	with Black Mastic	2,500 LF
Room Number		Grid Numbers		
B137A		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
B139		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
B139A		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
HEB131WB138		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4		
HEB137WB138		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4		
HEB141WB140		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4		

Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	31	9" x 9" Floor Tile	Green with White Speckles	5,030 SF
Room Number		Grid Numbers		
129	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
130	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
131	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
132	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
133	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
134	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
135	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
136	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
137	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
138	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
139	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
140	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
141	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
142	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
143	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
144	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
144A	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
144B	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
144C	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			

Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	37	12" x 12" Floor Tile	Olive with White Speckles	625 SF
Room Number	Grid Numbers			
Entry Lobby	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			

Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	4	Pipe Insulation	Elbow Insulation on Brown Pipes	500 Elbow
Room Number		Grid Numbers		
133		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
135		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
145		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
145A		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
146		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
147		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
147A		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
147B		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
147C		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
147D		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
148		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
148A		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
149		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
150		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
151		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
152		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
153		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
153A		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
154		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
209		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
211		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
B136		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		

Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	4	Pipe Insulation	Elbow Insulation on Brown Pipes	500 Elbow
Room Number		Grid Numbers		
B137A		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
B139		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
B139A		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
HEB131WB138		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4		
HEB137WB138		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4		
HEB141WB140		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4		
Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	49	9" x 9" Floor Tile	Olive with Green and White Speckles	957 SF
Room Number		Grid Numbers		
154		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	55	9" x 9" Floor Tile	Light Gray with White Speckles	4,631 SF
Room Number		Grid Numbers		
127		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
127A		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
128		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
128A		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		

Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	58	9" x 9" Floor Tile	Tan with White Speckles	8,400 SF
Room Number		Grid Numbers		
100	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
101	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
101A	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
102	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
103	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
104	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
105	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
106	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
107	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
108	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
109	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
110	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
111	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
119	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
119A	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
120	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
121	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
123	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
124	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
124A	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
124B	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4			
HE112W100	F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4			

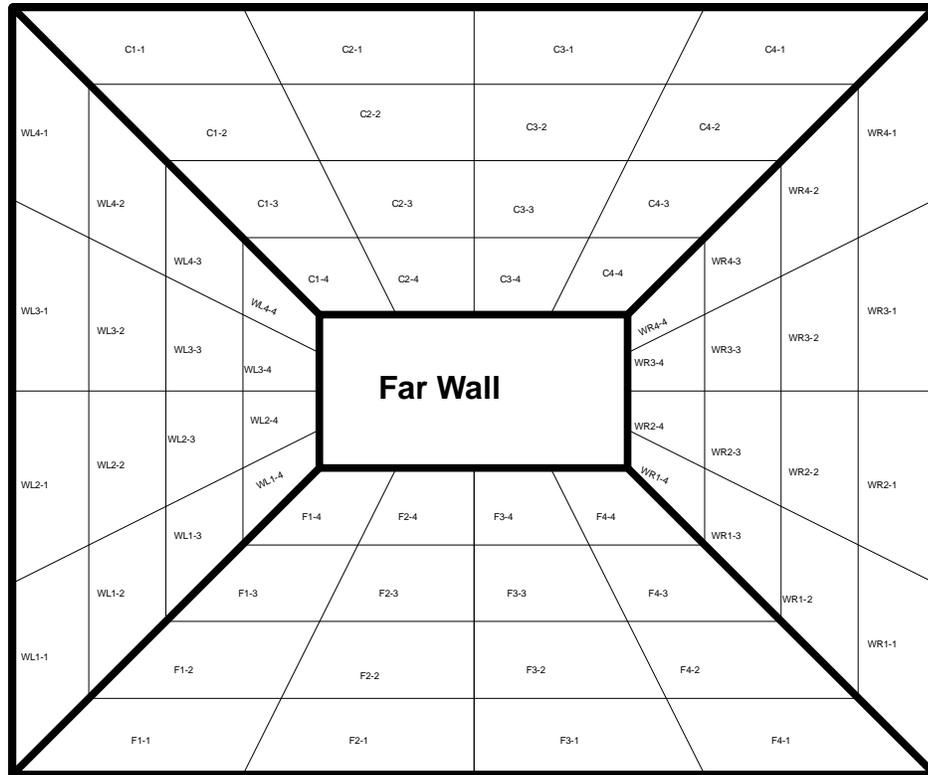
Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	58	9" x 9" Floor Tile	Tan with White Speckles	8,400 SF
Room Number		Grid Numbers		
HE113EW100		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4		
HE118BW112		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4		
HE11EW100		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4		
Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	64	12" x 12" Floor Tile	Beige with White Speckles	800 SF
Room Number		Grid Numbers		
HE127AW124		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4		

Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	67	12" x 12" Floor Tile	Peach with Brown and White Speckles	3,634 SF
Room Number		Grid Numbers		
112		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
113		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
113A		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
113B		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
113C		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
113D		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
114		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
115		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
116		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
117		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
118		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
118A		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
118B		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
118C		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	70	Carpet	Green Carpet and Mastic	625 SF
Room Number		Grid Numbers		
Entry Lobby		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		
Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	84	12" x 12" Floor Tile	Tan and Brown Smidges	200 SF
Room Number		Grid Numbers		
Entry Lobby to		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		

Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	94	2' X 4' Ceiling Tile	5-Dot Pattern	1,664 SF
Room Number		Grid Numbers		
147D		C1-1, C1-2, C1-3, C1-4, C2-1, C2-2, C2-3, C2-4, C3-1, C3-2, C3-3, C3-4, C4-1, C4-2, C4-3, C4-4		
Building Number	Sample ID	Sample Material	Sample Description	ACM Quantity
4619	97	12" x 12" Floor Tile	White with Black Speckles	600 SF
Room Number		Grid Numbers		
147		F1-1, F1-2, F1-3, F1-4, F2-1, F2-2, F2-3, F2-4, F3-1, F3-2, F3-3, F3-4, F4-1, F4-2, F4-3, F4-4		

Asbestos Survey Room Grid

Note: Asbestos containing material above the ceiling should be noted on the ceiling grid



Far Wall

WF4-1	WF4-2	WF4-3	WF4-4
WF3-1	WF3-2	WF3-3	WF3-4
WF2-1	WF2-2	WF2-3	WF2-4
WF1-1	WF1-2	WF1-3	WF1-4

Entry Wall

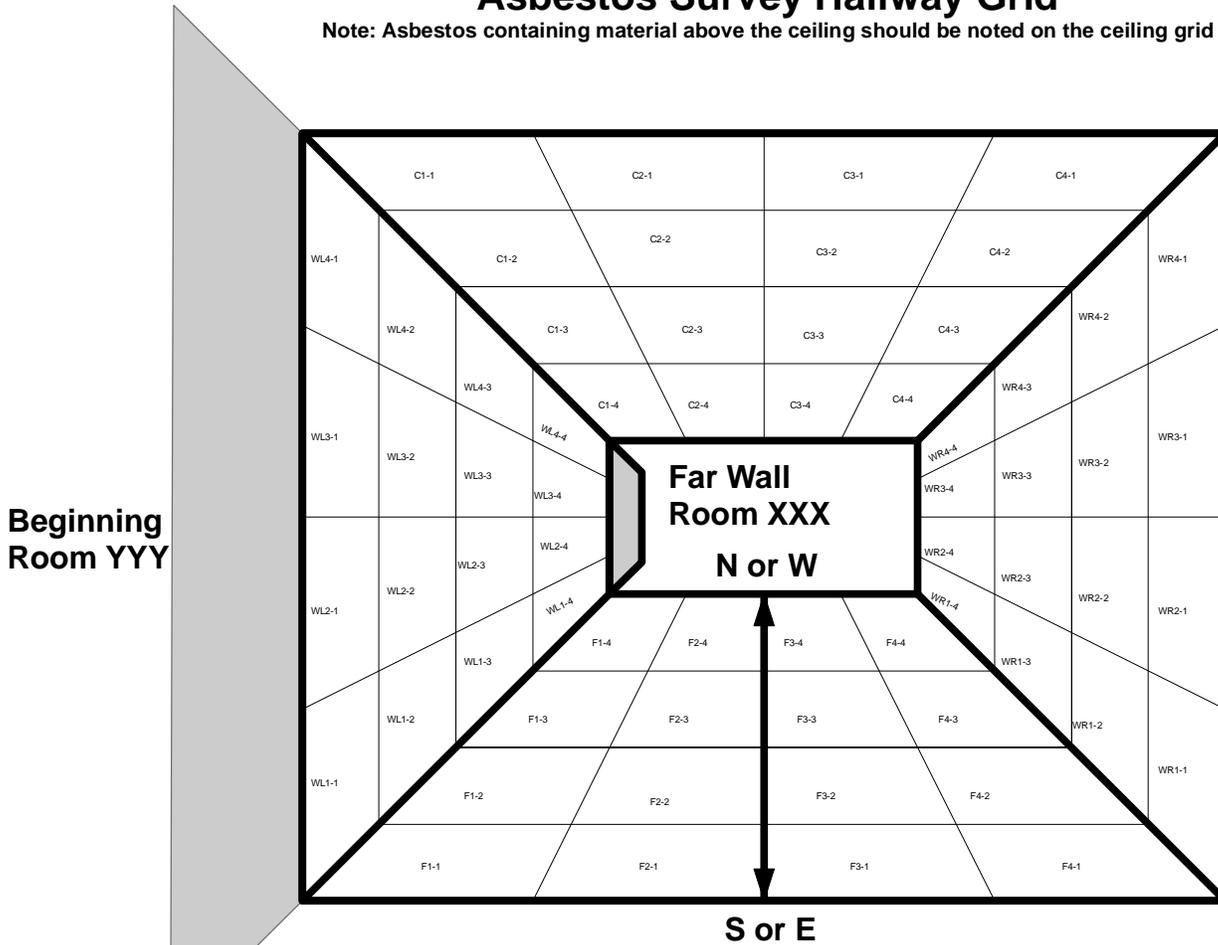
WE4-4	WE4-3	WE4-2	WE4-1
WE3-4	WE3-3	WE3-2	WE3-1
WE2-4	WE2-3	WE2-2	WE2-1
WE1-4	WE1-3	WE1-2	WE1-1

- Note: Entry wall depicted is as seen from inside the room, therefore grid WE4-4 is located at the top left corner of wall. The main entry door is located within the entry wall.
- Entry wall location shall be described as N (North) S (South) E (East) or W (West) as seen from the inside of the room. Utilizing the facilities data book, N is located at the top of page, S at bottom of page, E at right of page and W and left of page regardless of bearing shown on drawing for all buildings. (The directional bearing symbol is pointing to either NE or NW for approximately 29 buildings in the facilities data book. Consider these NE or NW bearings as being Plan N when identifying the direction of the entry wall.) The only exception is building 4705, this drawing shall be oriented towards North as shown on drawing.
- Type of grid system uses 4 grids by length and 4 grids by width irrespective of the room size.

Grid: C - ceiling, WF - far wall, WE - entry wall, WL - left wall, WR - right wall, F - floor

Asbestos Survey Hallway Grid

Note: Asbestos containing material above the ceiling should be noted on the ceiling grid



Far Wall

WF4-1	WF4-2	WF4-3	WF4-4
WF3-1	WF3-2	WF3-3	WF3-4
WF2-1	WF2-2	WF2-3	WF2-4
WF1-1	WF1-2	WF1-3	WF1-4

Entry Wall

WE4-4	WE4-3	WE4-2	WE4-1
WE3-4	WE3-3	WE3-2	WE3-1
WE2-4	WE2-3	WE2-2	WE2-1
WE1-4	WE1-3	WE1-2	WE1-1

- Note: Entry wall and far wall are optional; there maybe neither that are identified in the hallway. Entry wall depicted is as seen from inside the room, therefore grid WE4-1 is located at the top left corner of wall.
- Type of grid system uses 4 grids by length and 4 grids by width irrespective of the hall size.
- The identification of hallway segments will be determined by the end rooms. Hallways will be measured from South to North and from East to West Ex. Room most south of hallway is Room 107 and room most North of hallway is Room 200. Using H as the designation of hallway. The identification of hallway is HS107N200. Likewise from east to west would be HE107W200. The room number sequencing is arbitrary; Ex. HE200W107 would be acceptable. NS&EW are used to distinguish between vertical and horizontal run corridors on drawings.
- Utilizing the facilities data book, N is located at the top of page, S at bottom of page, E at right of page and W and left of page regardless of bearing shown on drawing for all buildings. (The directional bearing symbol is pointing to either NE or NW for approximately 29 buildings in the facilities data book. Consider these NE or NW bearings as being Plan N when identifying the hallway number.) The only exception is building 4705, this drawing shall be oriented towards North as shown on drawing.

Grid: C - ceiling, WF - far wall, WE - entry wall, WL - left wall, WR - right wall, F - floor

2.1. Suspect ACMs

The following information is included for informational purposes:

A. The following suspect asbestos-containing materials were not sampled as part of this scope of work:

- Suspect fibrous electrical cable covering (danger of electrocution) were not sampled.

These materials are not subject to regulation under NESHAP for demolition and renovation as long as they are in good condition and are not subject to sanding, grinding, cutting, or abrading.

Since ordinary demolition activities do not include sanding, grinding, cutting, and abrading, these materials may remain in place during building demolition, as long as they remain in good condition and are not friable.

If the material is in poor condition and is friable at the time of demolition or renovation, or if it will be subjected to sanding, grinding, cutting, or abrading, it should first be removed by a licensed asbestos removal contractor and disposed of as asbestos-containing waste.

When removing asphalt-roofing products, the material should be removed using a method that does not subject the material to sanding, cutting, grinding, or abrading (hand tools). Asbestos-containing roofing may be disposed of as construction debris.

2.2. Recommendations

The following additional actions are recommended:

- The identified asbestos-containing various 9" X 9" and 12" X 12" floortiles and associated black mastic, pipe insulation with black mastic, all hard elbow and fitting insulations, black mastic associated with carpet, 2' X 4' ceiling tile with 5-dot pattern in Room 147D, black mastic on CMU walls, and black mastic associated with HVAC duct insulations are in good condition. MSFC (Property owner/Operator) should develop and implement an Operations and Maintenance (O&M) Program. In addition suspect asbestos-containing materials in the form of all floortile below carpet, caulking on exterior walls, grout on exterior block walls, electrical cable covering, fire doors, window caulking, mirror mastic, leveling compound below ceramic tile flooring, transite panels, and duct vibration joints were not sampled as a part of this assessment. These materials can be maintained as part of the asbestos O&M Program. A properly designed O&M Program is sufficient to maintain the Project in accordance with current regulatory standards and sound business practice. **ACM maintained with an O&M Program can remain in place, provided the ACM and suspect ACM remain intact and undisturbed.**

3. Survey Scope

This survey was conducted for the purpose of identifying asbestos-containing materials (ACM) throughout the building and to conduct a hazard assessment on existing ACM. The survey was non-destructive in nature and limited only to those areas that were readily accessible.

Specific areas to which access was limited by occupant request, unavailability of keys, or by site conditions included the following:

- Behind the walls
- Beneath the floors

Any suspect ACM not sampled as part of the assessment and if any additional suspect materials were to be identified behind walls and beneath the floors should be sampled prior to repair, renovation, or demolition activities.

4. Limitations

GSE did not attempt to disassemble mechanical equipment, open pipe chases or assess materials within wall voids. Regardless of the thoroughness of a survey, the possibility exists that some areas containing asbestos were not identified, inaccessible or different from those at specific locations. The findings and opinions presented are relative to the dates of our site work and should not be relied upon to represent conditions at substantially later dates due to changes in the condition ACM may change over time, renovations and repairs.

This report is for the exclusive use of the client and its agents and use by any unauthorized parties in whole or in part, except as directed by legal jurisdiction, is at the sole risk of the user. If this assessment includes reliance on work products and/or documents prepared by others, GSE has no responsibility for the accuracy of information contained therein.

Although this assessment has attempted to identify the presence or absence of ACM, potential sources of ACM may have escaped detection due to: (1) the scope of this assessment, (2) the inaccuracy of records, interviews, work products or documents made available to GSE for this report, (3) the presence of undetected or unreported renovations and repairs, (4) inaccessible areas, and/or (5) deliberate concealment of detrimental information.

Estimates presented in this report are based upon observations during the survey and owner-provided information. These reasonable estimates may be affected by unanticipated conditions potentially present in inaccessible or un-surveyed areas. GSE does not warrant or guarantee the quantity estimates. The use of such estimates shall be at the user's own risk and shall constitute a release and agreement to defend and indemnify GSE from and against any liability. If questions arise during the planning for renovation, demolition, or other construction activities, GSE should be notified to permit review of the data and present recommendations.

Interior of the following rooms were inaccessible during our Asbestos Survey on July 10 and September 20, 2008: 170, 170A, 170B, 168, 169, 164, 164C, 161, 160, 160B, 160A, 156, 157, 158, 147, 147A, 147B, 147C127, 127A, 128, and 128A.

5. Survey and Sample Collection Procedure

Based on United States Environmental Protection Agency (USEPA) guidance documents, GSE considered all material applications identified during the visual assessment were suspect ACM and sampled as described below.

Bulk samples were collected of any materials, which were suspected of containing asbestos with the exception of fire doors. Fire doors were not sampled because the damage caused by sampling would render these materials friable and may also void the fire rating. Since these materials were not sampled, they should be assumed to be asbestos containing, unless sampled and proven otherwise. Sampling of these assumed ACMs should be performed prior to any renovation or other activity that may cause a material disturbance.

Samples of the remaining suspect ACM were taken in accordance with USEPA recommendations.

The number and location of samples collected was based on the type of material, the manner of application, and the homogeneity of the ACM (similarity of color, texture, and type). Each sample was collected and placed into an individual sample container. The sample location was noted on the field survey form and assigned an individual identification number. This number was affixed to the sample container as the sample was collected. The survey form was also used to note the material type and general condition of the material. During the inspection, each suspect material's accessibility, location, and friability were recorded. This information was used to assess the potential hazard of the ACM and to prioritize response action recommendations.

The USEPA defines asbestos-containing materials (ACM) as those that contain greater than one percent asbestos. Friable materials are defined as those that can be crumbled or reduced to powder by hand pressure.

GSE utilized the "positive-stop" method of sample analysis. In this method, analysis is stopped on a group of samples once the first positive (e.g., greater than 1% asbestos) sample is analyzed. According to the USEPA, if one sample of a homogenous material is identified to be asbestos containing, the entire material must be considered asbestos containing. By using the positive-stop method, GSE reduces the Client's laboratory analysis cost by not analyzing the additional samples.

Samples collected were carried and submitted under Chain-of-Custody to Steve Moody Micro Services LLC, Farmers Branch, Texas for analysis of asbestos using USEPA Method 40 CFR, Chapter 1, Part 763, Subpart F, Appendix A, also known as Polarized Light Microscopy (PLM). Steve Moody Micro Services LLC is certified by the National Voluntary Laboratory Accreditation Program (NVLAP) and licensed by the Department of State Health Services.

6. Previous Survey / Plans Review

GSE was not provided with any previously conducted asbestos surveys of the Property. As-built/renovation-site plans and construction drawings were reviewed at the Facilities Department Drawing Room. Review of these documents did not identify building material specifications requiring the use of ACM. However, this does not preclude or prevent the potential use of ACM.

7. Suspect ACM Materials Not Sampled

During the course of the property visit, GSE performed a preliminary review of interior, accessible areas of the subject building for the presence of suspect asbestos-containing materials (ACMs). This asbestos survey was conducted for overview purposes only; additional suspect materials may exist in concealed locations (behind walls and above ceilings, beneath the floors, within machinery, etc.). Also, not all suspect materials may have been sampled due to the condition or the location of the suspect materials. Destructive sampling of suspect ACMs was not performed. GSE will not be responsible for damaging materials or causing the materials to become friable. The USEPA defines asbestos-containing material as material containing greater than one percent asbestos. This review was not a pre-demolition/renovation survey or for regulatory submittal purposes.

Suspect and/or presumed ACMs were observed within the subject building during the property visit. These suspect and/or presumed ACMs that were not sampled as part of this asbestos survey are listed in the following table.

Sample ID	Sample Description	Type of ACM	Physical Condition	Friable Yes/No
PS2	9" X 9" Floor Tile, Located Below Carpet	M	U	No
PS3	12" X 12" Floor Tile, Located Below Carpet	M	U	No
PS4	Caulking, On Exterior Wall Joints	M	U	No
PS5	Grout, On Exterior Wall Masonary	M	U	No
PS6	Wiring, Fibrous Electrical Cable Covering	M	U	No
PS7	Fire Doors, Fire Door Insulation	M	U	No
PS8	Mastic, Mirror Mastic	M	U	No
PS10	Caulking, Window Glazing	M	U	No
PS11	Duct Insulation, Duct Vibration Joint	M	U	No
PS12	Transite, Panels	M	U	No
PS13	Leveling Compound, Below ceramic tile flooring	M	U	No

8. Survey Sampling Results

The results of the Survey are presented in the tables on the following pages. The tables describe the entire suspect Asbestos-Containing Materials (ACMs) identified in the building and list respective sample numbers and laboratory results. Sample numbers presented in the tables correspond to the sample numbers on attached Laboratory Analysis Forms. Also presented in the tables is the estimated quantity and assessed friability for each suspect ACM. For each suspect material identified as ACM, the assessed hazard potential is presented along with GSE's recommended response action. Hazard potential for each material application is based on the material condition and accessibility to the public and maintenance personnel.

Glossary of Items for the following Table

Type of Asbestos (1)	CH = Chrysotile AM = Amosite CR = Crocidolite AN = Anthophyllite TR = Tremolite AC = Actinolite ND = No Asbestos Detected
Type of ACM (2)	PC = Point Count Method M = Miscellaneous S = Surfacing TSI = Thermal Systems Insulation
Friability (3)	F = Friable NF = Non Friable
Physical Condition (4)	U = Good D = Damaged SD = Significantly Damaged
Potential for Disturbance (5)	NPD = No Potential for Disturbance PD = Potential for Disturbance PSD = Potential for Significant Disturbance
Assessment Category (6)	1 = Damaged or significantly damaged TSI ACBM, 2 = Damaged friable surfacing ACBM 3 = Significantly damaged friable surfacing ACBM 4 = Damaged or significantly damaged friable miscellaneous ACBM 5 = ACBM with potential for damaged 6 = ACBM potential for significant damage 7 = Any remaining friable ACBM or friable suspected ACBM X = not applicable
Unit of Measurement	SF = Square Feet LF = Linear Feet

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 1										
Pipe Insulation Brown Paper Cover Pipe Insulation	Room: HN136S146 Grid: C3-4	1	Yes	ND - Paper/Foil Wrap ND - Tar Wrap		TSI	Yes	D	PD	X
	Room: HEB137WB138 Grid: Wr2-2	2	Yes	ND - Paper/Foil Wrap		TSI	Yes	U	PD	X
	Room: HEB131WB138 Grid: WR3-1	3	Yes	ND - Insulation ND - Paper/Foil Wrap		TSI	Yes	U	PD	X
Homogeneous Area 2										
Pipe Insulation Elbow Insulation on Brown Pipes	Room: HN136S146 Grid: C3-4	4	Yes	2% AM - Thermal Insulation ND - Insulation	500 Elbows	TSI	Yes	U	PD	5
	Room: HN136S146 Grid: C3-4	5	No	Not Analyzed Positive Stop		TSI	Yes	U	PD	5
	Room: HN136S146 Grid: C3-4	6	No	Not Analyzed Positive Stop		TSI	Yes	U	PD	5

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 3										
Pipe Insulation New Pipe Insulation	Room: B136 Grid: WE3-2	7	Yes	ND - White Mastic		TSI	No	U	PD	X
	Room: B136 Grid: WF2-2	8	Yes	ND - White Mastic ND - Gray Mastic		TSI	No	U	PD	X
	Room: B136 Grid: WL2-3	9	Yes	ND - White Mastic ND - Insulation		TSI	No	U	PD	X
Homogeneous Area 4										
Pipe Insulation Elbow Insulation on White Pipes	Room: HEB137WB138 Grid: C2-2	10	Yes	ND - Insulation ND - Thermal Insulation ND - Glass Fiber Mesh		TSI	Yes	U	PD	5
	Room: HEB137WB138 Grid: WL3-3	11	Yes	ND - White Mastic ND - Thermal Insulation ND - Glass Fiber Mesh 5% CH - White Mastic	500 Elbows	TSI	Yes	U	PD	5
	Room: HEB137WB138 Grid: C1-4	12	No	Not Analyzed Positive Stop		TSI	Yes	U	PD	5

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 5										
Mastic Gray Mastic on Pipe Insulation	Room: B141 Grid: C3-1	13	Yes	ND - Duct Tape		M	No	D	PD	X
	Room: HEB141WB140 Grid: C1-2	14	Yes	ND - Duct Tape		M	No	D	PD	X
	Room: B139A Grid: C4-1	15	Yes	ND - Gray Mastic		M	No	D	PD	X
Homogeneous Area 6										
2' X 4' Ceiling Tile Large Fissures	Room: HN136S146 Grid: C2-2	16	Yes	ND - Acoustic Tile		M	Yes	U	PD	X
	Room: 131 Grid: C2-2	17	Yes	ND - Acoustic Tile		M	Yes	U	PD	X
	Room: 210 Grid: C1-1	18	Yes	ND - Acoustic Tile		M	Yes	U	PD	X

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 7										
2' X 2' Ceiling Tile Small Fissures	Room: HN136S146 Grid: C3-4	19	Yes	ND - Acoustic Tile		M	Yes	U	PD	X
	Room: 131 Grid: C2-2	20	Yes	ND - Acoustic Tile		M	Yes	U	PD	X
	Room: 210 Grid: C1-1	21	Yes	ND - Acoustic Tile		M	Yes	U	PD	X
Homogeneous Area 8										
Cove Base Brown Cove Base	Room: B139 Grid: WR1-2	22	Yes	ND - Cove Base		M	No	U	PD	X
	Room: B139 Grid: WR1-3	23	Yes	ND - Cove Base		M	No	U	PD	X
	Room: B139 Grid: WR1-4	24	Yes	ND - Cove Base		M	No	U	PD	X

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 9										
Other Floor Covering Stair Tread and Mastic	Room: East Stair Well Grid: F1-3	25	Yes	ND - Stair Tread ND - Yellow Mastic		M	No	U	PD	X
	Room: East Stair Well Grid: F2-2	26	Yes	ND - Stair Tread ND - Yellow Mastic		M	No	U	PD	X
	Room: West Stair Well Grid: F4-3	27	Yes	ND - Stair Tread ND - Yellow Mastic		M	No	U	PD	X
Homogeneous Area 10										
Carpet Blue Carpet and Mastic	Room: 144B Grid: F1-1	28	Yes	ND - Carpet ND - Yellow Mastic		M	No	U	PD	X
	Room: 144C Grid: F4-1	29	Yes	ND - Carpet ND - Yellow Mastic		M	No	U	PD	X
	Room: 143 Grid: F3-1	30	Yes	ND - Carpet ND - Yellow Mastic		M	No	U	PD	X

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 11										
9" x 9" Floor Tile Green with White Speckles	Room: West Stair Well Grid: F1-1	31	Yes	5% CH - Floor Tile 5% CH - Black Mastic	5,030 SF	M	No	U	PD	5
	Room: 129 Grid: F1-3	32	No	Not Analyzed Positive Stop		M	No	U	PD	5
	Room: 141 Grid: F4-1	33	No	Not Analyzed Positive Stop		M	No	U	PD	5
Homogeneous Area 12										
Cove Base Black Cove Base and Mastic	Room: 134 Grid: WE1-1	34	Yes	ND - Cove Base ND - Brown Mastic		M	No	U	PD	X
	Room: 217 Grid: We1-4	35	Yes	ND - Cove Base ND - Brown Mastic		M	No	U	PD	X
	Room: West Stair Well Grid: WE1-4	36	Yes	ND - Cove Base ND - Brown Mastic		M	No	U	PD	X

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 13										
12" x 12" Floor Tile Olive with White Speckles	Room: HN136S146 Grid: F4-1	37	Yes	3% CH - Floor Tile 5% CH - Black Mastic	625 SF	M	No	U	PD	5
	Room: HN136S146 Grid: F4-1	38	No	Not Analyzed Positive Stop		M	No	U	PD	5
	Room: HN136S146 Grid: F4-1	39	No	Not Analyzed Positive Stop		M	No	U	PD	5
Homogeneous Area 14										
Other Floor Covering Non Skid Carpet and Mastic	Room: East Entrance Grid: F2-1	40	Yes	ND - Carpet ND - Yellow Mastic		M	No	U	PD	X
	Room: East Entrance Grid: F1-1	41	Yes	ND - Carpet ND - Yellow Mastic		M	No	U	PD	X
	Room: East Entrance Grid: F1-1	42	Yes	ND - Carpet ND - Yellow Mastic		M	No	U	PD	X

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 15										
Wallboard Drywall System	Room: HE136W129 Grid: WR4-1	43	Yes	ND - Drywall Material ND - Joint Compound		M	No	U	PD	X
	Room: HE220AW201 Grid: WL4-2	44	Yes	ND - Drywall Material ND - Joint Compound		M	No	U	PD	X
	Room: 113E Grid: WF1-1	45	Yes	ND - Drywall Material ND - Joint Compound ND - Texture		M	No	U	PD	X
Homogeneous Area 16										
2' X 4' Ceiling Tile Pin Holes	Room: 144 Grid: C2-4	46	Yes	ND - Acoustic Tile		M	Yes	U	PD	X
	Room: 144A Grid: C1-1	47	Yes	ND - Acoustic Tile		M	Yes	U	PD	X
	Room: 153 Grid: C2-1	48	Yes	ND - Acoustic Tile		M	Yes	U	PD	X

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 17										
9" x 9" Floor Tile Olive with Green and White Speckles	Room: HS149N146 Grid: F1-4	49	Yes	10% CH - Floor Tile	957 SF	M	No	U	PD	5
	Room: HS149N146 Grid: F1-4	50	No	Not Analyzed Positive Stop		M	No	U	PD	5
	Room: HS149N146 Grid: F1-4	51	No	Not Analyzed Positive Stop		M	No	U	PD	5
Homogeneous Area 18										
Wall Covering Plaster Gray Plaster	Room: 149 Grid: WF1-4	52	Yes	ND - Gray Plaster ND - White Plaster		M	No	U	PD	X
	Room: 133 Grid: WR4-3	53	Yes	ND - Light Gray Plaster ND - Gray Plaster ND - White Plaster		M	No	U	PD	X
	Room: 135 Grid: WR2-4	54	Yes	ND - Light Gray Plaster ND - Gray Plaster ND - White Plaster		M	No	U	PD	X

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 19										
9" x 9" Floor Tile Light Gray with White Speckles	Room: West Stair Well Grid: F1-1	55	Yes	10% CH - Floor Tile 5% CH - Black Mastic	4,631 SF	M	No	U	PD	5
	Room: West Stair Well Grid: F1-1	56	No	Not Analyzed Positive Stop		M	No	U	PD	5
	Room: West Stair Well Grid: F1-1	57	No	Not Analyzed Positive Stop		M	No	U	PD	5
Homogeneous Area 20										
9" x 9" Floor Tile Tan with White Speckles	Room: HN109S155 Grid: F4-1	58	Yes	10% CH - Floor Tile 5% CH - Black Mastic	8,400 SF	M	No	U	PD	5
	Room: HE112W100 Grid: F1-4	59	No	Not Analyzed Positive Stop		M	No	U	PD	5
	Room: 124 Grid: F4-3	60	No	Not Analyzed Positive Stop		M	No	U	PD	5

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 21										
2' X 2' Ceiling Tile With Dots	Room: HE11EW100 Grid: C2-2	61	Yes	ND - Acoustic Tile		M	Yes	U	PD	X
	Room: 112 Grid: C2-3	62	Yes	ND - Acoustic Tile		M	Yes	U	PD	X
	Room: 124A Grid: C3-3	63	Yes	ND - Acoustic Tile		M	Yes	U	PD	X
Homogeneous Area 22										
12" x 12" Floor Tile Beige with White Speckles	Room: HE127AW124 Grid: F1-4	64	Yes	ND - Floor Tile 5% CH - Black Mastic	800 SF	M	No	U	PD	5
	Room: HE127AW124 Grid: F1-4	65	No	Not Analyzed Positive Stop		M	No	U	PD	5
	Room: HE127AW124 Grid: F1-4	66	No	Not Analyzed Positive Stop		M	No	U	PD	5

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 23										
12" x 12" Floor Tile Peach with Brown and White Speckles	Room: 113E Grid: F1-1	67	Yes	3% CH - Floor Tile 5% CH - Black Mastic	3,634 SF	M	No	U	PD	5
	Room: 124 Grid: F2-1	68	No	Not Analyzed Positive Stop		M	No	U	PD	5
	Room: 113C Grid: F1-3	69	No	Not Analyzed Positive Stop		M	No	U	PD	5
Homogeneous Area 24										
Carpet Green Carpet and Mastic	Room: Middle Entry Grid: F1-1	70	Yes	ND - Carpet 5% CH - Black Mastic	625 SF	M	No	U	PD	5
	Room: Middle Entry Grid: F1-4	71	No	Not Analyzed Positive Stop		M	No	U	PD	5
	Room: Middle Entry Grid: F4-1	72	No	Not Analyzed Positive Stop		M	No	U	PD	5

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 25										
Carpet Multi Colored Carpet and Mastic	Room: 113E Grid: F2-3	73	Yes	ND - Green Mastic		M	No	U	PD	X
	Room: 113 Grid: F1-3	74	Yes	ND - Green Mastic		M	No	U	PD	X
	Room: 113B Grid: F3-4	75	Yes	ND - Green Mastic		M	No	U	PD	X
Homogeneous Area 26										
Cove Base Tan Cove Base and Mastic	Room: 113 Grid: WE1-3	76	Yes	ND - Cove Base ND - Yellow Mastic		M	No	U	PD	X
	Room: 113B Grid: WE1-3	77	Yes	ND - Cove Base ND - Yellow Mastic		M	No	U	PD	X
	Room: 113E Grid: WR1-2	78	Yes	ND - Cove Base ND - Yellow Mastic		M	No	U	PD	X

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 27										
Mastic Dark Green Mastic on Metal Duct	Room: 155 Grid: F4-4	79	Yes	ND - Green Mastic		M	No	U	PD	X
	Room: 155 Grid: F4-4	80	Yes	ND - Green Mastic		M	No	U	PD	X
	Room: 155 Grid: F4-4	81	Yes	ND - Green Mastic		M	No	U	PD	X
Homogeneous Area 28										
12" x 12" Floor Tile Tan and Brown Smidges	Room: 160 Grid: F4-1	82	Yes	ND - Floor Tile		M	No	U	PD	5
	Room: 160 Grid: F3-1	83	Yes	ND - Floor Tile		M	No	U	PD	5
	Room: 160 Grid: F2-1	84	Yes	5% CH - Floor Tile 3% CH - Black Mastic	200 SF	M	No	U	PD	5

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 29										
Other Floor Covering Non Skid Flooring and Mastic	Room: 160 Grid: F4-1	85	Yes	ND - Non Skid Surface ND - Clear Mastic		M	No	U	PD	X
	Room: 160 Grid: F4-1	86	Yes	ND - Non Skid Surface ND - Clear Mastic		M	No	U	PD	X
	Room: 160 Grid: F2-1	87	Yes	ND - Non Skid Surface ND - Clear Mastic		M	No	U	PD	X
Homogeneous Area 30										
Other Floor Covering Blue Non Skid Flooring and Mastic	Room: 155 Grid: F4-1	88	Yes	ND - Non Skid Surface ND - Clear Mastic		M	No	D	PD	X
	Room: 155 Grid: F4-1	89	Yes	ND - Non Skid Surface ND - Yellow Mastic		M	No	D	PD	X
	Room: 155 Grid: F2-1	90	Yes	ND - Non Skid Surface ND - Yellow Mastic		M	No	D	PD	X

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 31										
Wall Covering Panel with insulation	Room: 147D Grid: WR2-3	91	Yes	ND - Wall Panel		M	No	D	PD	X
	Room: 147D Grid: WL2-3	92	Yes	ND - Wall Panel ND - Insulation		M	No	D	PD	X
	Room: 147D Grid: WF2-1	93	Yes	ND - Wall Panel ND - Insulation		M	No	D	PD	X
Homogeneous Area 32										
2' X 4' Ceiling Tile 5-Dot Pattern	Room: 147D Grid: C4-2	94	Yes	5% AM - Acoustic Tile	1,664 SF	M	Yes	U	PD	5
	Room: 147D Grid: C1-1	95	No	Not Analyzed Positive Stop		M	Yes	U	PD	5
	Room: 147D Grid: C4-4	96	No	Not Analyzed Positive Stop		M	Yes	U	PD	5

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 33										
12" x 12" Floor Tile White with Black Speckles	Room: 147 Grid: F1-1	97	Yes	5% CH - Floor Tile ND - Yellow Mastic	600 SF	M	No	U	PD	5
	Room: 147 Grid: F1-1	98	No	Not Analyzed Positive Stop		M	No	U	PD	5
	Room: 148A Grid: F1-1	99	No	Not Analyzed Positive Stop		M	No	U	PD	5
Homogeneous Area 34										
12" x 12" Floor Tile Beige Floor Tile	Room: 147A Grid: F1-4	100	Yes	5% CH - Floor Tile 5% CH - Black Mastic	479 SF	M	No	U	PD	5
	Room: 147A Grid: F1-3	101	No	Not Analyzed Positive Stop		M	No	U	PD	5
	Room: 147A Grid: F1-2	102	No	Not Analyzed Positive Stop		M	No	U	PD	5

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 35										
Other Floor Covering Computer Floor Surface	Room: 147A Grid: F2-2	103	Yes	ND - Floor Tile ND - Yellow Mastic		M	No	U	PD	X
	Room: 147A Grid: F2-4	104	Yes	ND - Floor Tile ND - Yellow Mastic		M	No	U	PD	X
	Room: 147A Grid: F4-3	105	Yes	ND - Floor Tile ND - Yellow Mastic		M	No	U	PD	X
Pipe Insulation with Cloth Cover	Room: Grid:	130	Yes	ND - Insulation ND - Cotton Wrap		TSI	Yes	U	PD	X
	Room: Grid:	131	Yes	ND - Insulation ND - Cotton Wrap		TSI	Yes	U	PD	X
Pipe Insulation with Black Mastic	Room: Grid:	132	Yes	ND - Insulation ND - Cotton Wrap		TSI	Yes	U	PD	X

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 36										
Mastic Computer Floor Pedestal	Room: 147A Grid: F4-2	106	Yes	ND - Mastic		M	No	U	PD	X
	Room: 148A Grid: F4-2	107	Yes	ND - Mastic		M	No	U	PD	X
	Room: 148A Grid: F4-3	108	Yes	ND - Mastic		M	No	U	PD	X
Pipe Insulation with Black Mastic	Room: Grid:	133	Yes	ND - Insulation ND - Paper/Foil Wrap 5% CH - Black Mastic	2,500 LF	TSI	Yes	U	PD	5
	Room: Grid:	134	No	Not Analyzed Positive Stop		TSI	Yes	U	PD	5
	Room: Grid:	135	No	Not Analyzed Positive Stop		TSI	Yes	U	PD	5

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 37										
Wall Covering Tile Acoustic Wall Covering and Mastic	Room: 217 Grid: WL2-2	109	Yes	ND - Wall Covering ND - Yellow Mastic		M	No	U	PD	X
	Room: 217 Grid: WE2-2	110	Yes	ND - Wall Covering ND - Yellow Mastic		M	No	U	PD	X
	Room: 215 Grid: WE2-3	111	Yes	ND - Wall Covering ND - Yellow Mastic		M	No	U	PD	X
HVAC Duct Insulation with Gray Mastic	Room: Grid:	136	Yes	ND - Gray mastic		M	No	U	PD	X
	Room: Grid:	137	Yes	ND - Gray mastic		M	No	U	PD	X
	Room: Grid:	138	Yes	ND - Gray mastic		M	No	U	PD	X
Homogeneous Area 38										
Mastic Black Wall Mastic	Room: 138 Grid: WF4-2	112	Yes	5% CH - Black Mastic	5,000 SF	M	No	U	PD	5
	Room: 144 Grid: WF4-2	113	No	Not Analyzed Positive Stop		M	No	U	PD	5
	Room: 132 Grid: WF4-2	114	No	Not Analyzed Positive Stop		M	No	U	PD	5

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 39										
Mastic Olive Gray Duct Mastic	Room: HW201E220A Grid: C2-1	115	Yes	ND - Duct Mastic		M	No	U	PD	X
	Room: HW201E220A Grid: C2-1	116	Yes	ND - Duct Mastic		M	No	U	PD	X
	Room: 207 Grid: C2-3	117	Yes	ND - Duct Mastic		M	No	U	PD	X
Homogeneous Area 40										
Caulking Tan Penetration Sealer	Room: HE118BW112 Grid: C4-3	118	Yes	ND - Sealant		M	No	U	PD	X
	Room: HE118BW112 Grid: C4-3	119	Yes	ND - Sealant		M	No	U	PD	X
	Room: HE118BW112 Grid: C4-3	120	Yes	ND - Sealant		M	No	U	PD	X

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 41										
HVAC Duct Insulation Black Duct Insulation	Room: HE113EW100 Grid: C2-2	121	Yes	ND - Insulation ND - Tar Wrap		M	No	U	PD	X
	Room: 112 Grid: C2-3	122	Yes	ND - Insulation ND - Tar Wrap		M	No	U	PD	X
	Room: 124A Grid: C3-3	123	Yes	ND - Insulation ND - Tar Wrap		M	No	U	PD	X
Homogeneous Area 42										
Mastic Black Duct mastic	Room: HE113EW100 Grid: C2-2	124	Yes	10% CH - Black Mastic	1,400 LF	M	No	U	PD	5
	Room: 112 Grid: C2-3	125	No	Not Analyzed Positive Stop		M	No	U	PD	5
	Room: 124A Grid: C3-3	126	No	Not Analyzed Positive Stop		M	No	U	PD	5

Sample Description	Sample Location	Sample ID	Sample Analyzed Yes/No	% and Type of Asbestos Detected	Estimated Quantity of ACM	Type of ACM	Friable Yes/No	Physical Condition	Potential For Distrubance	Assessment Category
Homogeneous Area 43										
9" x 9" Floor Tile Green with White Streaks	Room: 146 Grid: F1-1	127	Yes	5% CH - Floor Tile 5% CH - Black Mastic	9,665 SF	M	No	U	PD	5
	Room: 146 Grid: F1-1	128	No	Not Analyzed Positive Stop		M	No	U	PD	5
	Room: 146 Grid: F1-1	129	No	Not Analyzed Positive Stop		M	No	U	PD	5

1. CH = Chrysotile; AM = Amosite; CR = Crocidolite; AN = Anthophyllite; TR = Tremolite; AC = Actinolite; ND = No Asbestos Detected; or PC = Point Count Method
2. M = Miscellaneous; S = Surfacing; or TSI = Thermal Systems Insulation
3. F = Friable or NF = Non Friable
4. U = Good; D = Damaged; or SD = Significantly Damaged
5. NPD = No Potential for Disturbance; PD = Potential for Disturbance; or PSD = Potential for Significant Disturbance
6. 1 = Damaged or significantly damaged TSI ACBM, 2 = Damaged friable surfacing ACBM, 3 = Significantly damaged friable surfacing ACBM, 4 = Damaged or significantly damaged friable miscellaneous ACBM, 5 = ACBM with potential for damage, 6 = ACBM potential for significant damage, 7 = Any remaining friable ACBM or friable suspected ACBM, or X = not applicable

SF = Square Feet

LF = Linear Feet

9. Appendices

Appendix A—	Laboratory Results and Chain of Custody
Appendix B—	ACM Sample Location Drawings
Appendix C—	ACM Location Diagrams
Appendix D—	Photographs
Appendix E—	Certificates and Licenses

Appendix A

Laboratory Results

PLM Summary Report

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 (Phone 972-241-8460)

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client :	Great Southern Engineering	Lab Job No. : 08B-08484
Project :	MSFC Building 4619	Report Date : 07/16/2008
Project # :	GSE-013	Sample Date : 07/10/2008
Identification :	Asbestos, Bulk Sample Analysis	
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS)	
	EPA Method 600 / R-93 / 116	

Page 1 of 9

On 7/15/2008, one hundred twenty nine (129) bulk material samples were submitted by a representative of Great Southern Engineering for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
01	Pipe Insulation Cover	None Detected - Paper / Foil Wrap None Detected - Tar Wrap
02	Pipe Insulation Cover	None Detected - Paper / Foil Wrap
03	Pipe Insulation Cover	None Detected - Insulation None Detected - Paper / Foil Wrap
04	Elbow and Fitting Insulation	2% Amosite - Thermal Insulation None Detected - Insulation
05	Elbow and Fitting Insulation	Not Analyzed - Positive Stop
06	Elbow and Fitting Insulation	Not Analyzed - Positive Stop
07	Mastic (White) on New Pipe Insulation	None Detected - White Mastic
08	Mastic (White) on New Pipe Insulation	None Detected - White Mastic None Detected - Grey Mastic
09	Mastic (White) on New Pipe Insulation	None Detected - Insulation None Detected - White Mastic
10	Elbow and Fitting Insulation	None Detected - Insulation None Detected - Thermal Insulation None Detected - Glass Fiber Mesh None Detected - White Mastic
11	Elbow and Fitting Insulation	None Detected - Thermal Insulation None Detected - Glass Fiber Mesh 5% Chrysotile - White Mastic
12	Elbow and Fitting Insulation	Not Analyzed - Positive Stop
13	Mastic (Gray) on Pipe Insulation	None Detected - Duct Tape
14	Mastic (Gray) on Pipe Insulation	None Detected - Duct Tape
15	Mastic (Gray) on Pipe Insulation	None Detected - Gray Mastic
16	2' x 4' Ceiling Tile (Large Fissures)	None Detected - Acoustic Tile

PLM Summary Report

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 (Phone 972-241-8460)

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client :	Great Southern Engineering	Lab Job No. : 08B-08484
Project :	MSFC Building 4619	Report Date : 07/16/2008
Project # :	GSE-013	Sample Date : 07/10/2008
Identification :	Asbestos, Bulk Sample Analysis	
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS)	
	EPA Method 600 / R-93 / 116	

Page 2 of 9

On 7/15/2008, one hundred twenty nine (129) bulk material samples were submitted by a representative of Great Southern Engineering for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
17	2' x 4' Ceiling Tile (Large Fissures)	None Detected - Acoustic Tile
18	2' x 4' Ceiling Tile (Large Fissures)	None Detected - Acoustic Tile
19	2' x 4' Ceiling Tile (Small Fissures)	None Detected - Acoustic Tile
20	2' x 4' Ceiling Tile (Small Fissures)	None Detected - Acoustic Tile
21	2' x 4' Ceiling Tile (Small Fissures)	None Detected - Acoustic Tile
22	Cove Base (Brown) and Mastic	None Detected - Cove Base No Mastic
23	Cove Base (Brown) and Mastic	None Detected - Cove Base No Mastic
24	Cove Base (Brown) and Mastic	None Detected - Cove Base No Mastic
25	Stair Tread and Mastic	None Detected - Stair Tread None Detected - Yellow Mastic
26	Stair Tread and Mastic	None Detected - Stair Tread None Detected - Yellow Mastic
27	Stair Tread and Mastic	None Detected - Stair Tread None Detected - Yellow Mastic
28	Carpet (Blue) Mastic	None Detected - Carpet None Detected - Yellow Mastic
29	Carpet (Blue) Mastic	None Detected - Carpet None Detected - Yellow Mastic
30	Carpet (Blue) Mastic	None Detected - Carpet None Detected - Yellow Mastic
31	9" x 9" Floor Tile (Green with White and Blue Speckles) and Mastic	5% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
32	9" x 9" Floor Tile (Green with White and Blue Speckles) and Mastic	Not Analyzed - Positive Stop

PLM Summary Report

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 (Phone 972-241-8460)

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client :	Great Southern Engineering	Lab Job No. : 08B-08484
Project :	MSFC Building 4619	Report Date : 07/16/2008
Project # :	GSE-013	Sample Date : 07/10/2008
Identification :	Asbestos, Bulk Sample Analysis	
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS)	
	EPA Method 600 / R-93 / 116	

Page 3 of 9

On 7/15/2008, one hundred twenty nine (129) bulk material samples were submitted by a representative of Great Southern Engineering for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
33	9" x 9" Floor Tile (Green with White and Blue Speckles) and Mastic	Not Analyzed - Positive Stop
34	Cove Base (Black) and Mastic	None Detected - Cove Base None Detected - Brown Mastic
35	Cove Base (Black) and Mastic	None Detected - Cove Base None Detected - Brown Mastic
36	Cove Base (Black) and Mastic	None Detected - Cove Base None Detected - Brown Mastic
37	12" x 12" Floor Tile (Olive with White Speckles) and Mastic	3% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
38	12" x 12" Floor Tile (Olive with White Speckles) and Mastic	Not Analyzed - Positive Stop
39	12" x 12" Floor Tile (Olive with White Speckles) and Mastic	Not Analyzed - Positive Stop
40	Non-skid Carpet and Mastic	None Detected - Carpet None Detected - Yellow Mastic
41	Non-skid Carpet and Mastic	None Detected - Carpet None Detected - Yellow Mastic
42	Non-skid Carpet and Mastic	None Detected - Carpet None Detected - Yellow Mastic
43	Wallboard and Joint Compound	None Detected - Drywall Material None Detected - Joint Compound
44	Wallboard and Joint Compound	None Detected - Drywall Material None Detected - Joint Compound
45	Wallboard and Joint Compound	None Detected - Drywall Material None Detected - Joint Compound None Detected - Texture
46	2' x 4' Ceiling Tile (Textured with Pinholes)	None Detected - Acoustic Tile
47	2' x 4' Ceiling Tile (Textured with Pinholes)	None Detected - Acoustic Tile

PLM Summary Report

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 (Phone 972-241-8460)

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client :	Great Southern Engineering	Lab Job No. : 08B-08484
Project :	MSFC Building 4619	Report Date : 07/16/2008
Project # :	GSE-013	Sample Date : 07/10/2008
Identification :	Asbestos, Bulk Sample Analysis	
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS)	
	EPA Method 600 / R-93 / 116	

Page 4 of 9

On 7/15/2008, one hundred twenty nine (129) bulk material samples were submitted by a representative of Great Southern Engineering for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
48	2' x 4' Ceiling Tile (Textured with Pinholes)	None Detected - Acoustic Tile
49	9" x 9" Floor Tile (Olive with Green and White Streaks) and Mastic	10% Chrysotile - Floor Tile Insufficient Mastic
50	9" x 9" Floor Tile (Olive with Green and White Streaks) and Mastic	Not Analyzed - Positive Stop
51	9" x 9" Floor Tile (Olive with Green and White Streaks) and Mastic	Not Analyzed - Positive Stop
52	Plaster	None Detected - Grey Plaster None Detected - White Plaster
53	Plaster	None Detected - Light Grey Plaster None Detected - Grey Plaster None Detected - White Plaster
54	Plaster	None Detected - Light Grey Plaster None Detected - Grey Plaster None Detected - White Plaster
55	9" x 9" Floor Tile (Light Gray with Gray and White Streaks) and Mastic	10% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
56	9" x 9" Floor Tile (Light Gray with Gray and White Streaks) and Mastic	Not Analyzed - Positive Stop
57	9" x 9" Floor Tile (Light Gray with Gray and White Streaks) and Mastic	Not Analyzed - Positive Stop
58	9" x 9" Floor Tile (Tan with Maroon and White Streaks) and Mastic	10% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
59	9" x 9" Floor Tile (Tan with Maroon and White Streaks) and Mastic	Not Analyzed - Positive Stop
60	9" x 9" Floor Tile (Tan with Maroon and White Streaks) and Mastic	Not Analyzed - Positive Stop
61	2' x 2' Ceiling Tile (Heavy Dot Pattern)	None Detected - Acoustic Tile

PLM Summary Report

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 (Phone 972-241-8460)

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client :	Great Southern Engineering	Lab Job No. : 08B-08484
Project :	MSFC Building 4619	Report Date : 07/16/2008
Project # :	GSE-013	Sample Date : 07/10/2008
Identification :	Asbestos, Bulk Sample Analysis	
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS)	
	EPA Method 600 / R-93 / 116	

On 7/15/2008, one hundred twenty nine (129) bulk material samples were submitted by a representative of Great Southern Engineering for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
62	2' x 2' Ceiling Tile (Heavy Dot Pattern)	None Detected - Acoustic Tile
63	2' x 2' Ceiling Tile (Heavy Dot Pattern)	None Detected - Acoustic Tile
64	12" x 12" Floor Tile (Beige with White Speckles) and Mastic	None Detected - Floor Tile 5% Chrysotile - Black Mastic
65	12" x 12" Floor Tile (Beige with White Speckles) and Mastic	Not Analyzed - Positive Stop
66	12" x 12" Floor Tile (Beige with White Speckles) and Mastic	Not Analyzed - Positive Stop
67	12" x 12" Floor Tile (Peach with Brown and White Speckles) and Mastic	3% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
68	12" x 12" Floor Tile (Peach with Brown and White Speckles) and Mastic	Not Analyzed - Positive Stop
69	12" x 12" Floor Tile (Peach with Brown and White Speckles) and Mastic	Not Analyzed - Positive Stop
70	Carpet (Green) Mastic	None Detected - Carpet 5% Chrysotile - Black Mastic
71	Carpet (Green) Mastic	Not Analyzed - Positive Stop
72	Carpet (Green) Mastic	Not Analyzed - Positive Stop
73	Carpet (Multicolored) Mastic	None Detected - Green Mastic
74	Carpet (Multicolored) Mastic	None Detected - Green Mastic
75	Carpet (Multicolored) Mastic	None Detected - Green Mastic
76	Cove Base (Tan) and Mastic	None Detected - Cove Base None Detected - Yellow Mastic
77	Cove Base (Tan) and Mastic	None Detected - Cove Base None Detected - Yellow Mastic

PLM Summary Report

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 (Phone 972-241-8460)

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client :	Great Southern Engineering	Lab Job No. : 08B-08484
Project :	MSFC Building 4619	Report Date : 07/16/2008
Project # :	GSE-013	Sample Date : 07/10/2008
Identification :	Asbestos, Bulk Sample Analysis	
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS)	
	EPA Method 600 / R-93 / 116	

Page 6 of 9

On 7/15/2008, one hundred twenty nine (129) bulk material samples were submitted by a representative of Great Southern Engineering for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
78	Cove Base (Tan) and Mastic	None Detected - Cove Base No Mastic
79	Mastic (Dark Green)	None Detected - Green Mastic
80	Mastic (Dark Green)	None Detected - Green Mastic
81	Mastic (Dark Green)	None Detected - Green Mastic
82	12" x 12" Floor Tile (Tan with Smudges) and Mastic	None Detected - Floor Tile No Mastic
83	12" x 12" Floor Tile (Tan with Smudges) and Mastic	None Detected - Floor Tile No Mastic
84	12" x 12" Floor Tile (Tan with Smudges) and Mastic	5% Chrysotile - Floor Tile 3% Chrysotile - Black Mastic
85	Non-skid Strips	None Detected - Non - Skid Strip None Detected - Clear Mastic
86	Non-skid Strips	None Detected - Non - Skid Strip None Detected - Clear Mastic
87	Non-skid Strips	None Detected - Non - Skid Strip None Detected - Clear Mastic
88	Non-skid Flooring (Blue) and Mastic	None Detected - Non - Skid Strip None Detected - Clear Mastic
89	Non-skid Flooring (Blue) and Mastic	None Detected - Flooring None Detected - Yellow Mastic
90	Non-skid Flooring (Blue) and Mastic	None Detected - Flooring None Detected - Yellow Mastic
91	Wall Panels	None Detected - Wall Panel
92	Wall Panels	None Detected - Insulation None Detected - Wall Panel

PLM Summary Report

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 (Phone 972-241-8460)

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client :	Great Southern Engineering	Lab Job No. : 08B-08484
Project :	MSFC Building 4619	Report Date : 07/16/2008
Project # :	GSE-013	Sample Date : 07/10/2008
Identification :	Asbestos, Bulk Sample Analysis	
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS)	
	EPA Method 600 / R-93 / 116	

Page 7 of 9

On 7/15/2008, one hundred twenty nine (129) bulk material samples were submitted by a representative of Great Southern Engineering for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
93	Wall Panels	None Detected - Insulation None Detected - Wall Panel
94	2' x 4' Ceiling Tile (S-dot Pattern)	5% Amosite - Acoustic Tile
95	2' x 4' Ceiling Tile (S-dot Pattern)	Not Analyzed - Positive Stop
96	2' x 4' Ceiling Tile (S-dot Pattern)	Not Analyzed - Positive Stop
97	12" x 12" Floor Tile (White with Black Speckles) and Mastic	5% Chrysotile - Floor Tile None Detected - Yellow Mastic
98	12" x 12" Floor Tile (White with Black Speckles) and Mastic	Not Analyzed - Positive Stop
99	12" x 12" Floor Tile (White with Black Speckles) and Mastic	Not Analyzed - Positive Stop
100	12" x 12" Floor Tile (Beige) and Mastic	5% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
101	12" x 12" Floor Tile (Beige) and Mastic	Not Analyzed - Positive Stop
102	12" x 12" Floor Tile (Beige) and Mastic	Not Analyzed - Positive Stop
103	Computer Floor (White with Black Streaks)	None Detected - Floor Tile None Detected - Yellow Mastic
104	Computer Floor (White with Black Streaks)	None Detected - Floor Tile None Detected - Yellow Mastic
105	Computer Floor (White with Black Streaks)	None Detected - Floor Tile None Detected - Yellow Mastic
106	Mastic, Computer Floor Pedestals	None Detected - Mastic
107	Mastic, Computer Floor Pedestals	None Detected - Mastic
108	Mastic, Computer Floor Pedestals	None Detected - Mastic
109	Acoustical Wall Covering and Mastic	None Detected - Wall Covering None Detected - Yellow Mastic

PLM Summary Report

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 (Phone 972-241-8460)

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client :	Great Southern Engineering	Lab Job No. : 08B-08484
Project :	MSFC Building 4619	Report Date : 07/16/2008
Project # :	GSE-013	Sample Date : 07/10/2008
Identification :	Asbestos, Bulk Sample Analysis	
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS)	
	EPA Method 600 / R-93 / 116	

Page 8 of 9

On 7/15/2008, one hundred twenty nine (129) bulk material samples were submitted by a representative of Great Southern Engineering for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
110	Acoustical Wall Covering and Mastic	None Detected - Wall Covering None Detected - Yellow Mastic
111	Acoustical Wall Covering and Mastic	None Detected - Wall Covering None Detected - Yellow Mastic
112	Wall Mastic (Black)	5% Chrysotile - Black Mastic
113	Wall Mastic (Black)	Not Analyzed - Positive Stop
114	Wall Mastic (Black)	Not Analyzed - Positive Stop
115	Duct Mastic (Olive Gray)	None Detected - Duct Mastic
116	Duct Mastic (Olive Gray)	None Detected - Duct Mastic
117	Duct Mastic (Olive Gray)	None Detected - Duct Mastic
118	Penetration Sealer (Tan)	None Detected - Sealant
119	Penetration Sealer (Tan)	None Detected - Sealant
120	Penetration Sealer (Tan)	None Detected - Sealant
121	Duct Cover (Black) and Insulation	None Detected - Insulation None Detected - Tar Wrap
122	Duct Cover (Black) and Insulation	None Detected - Insulation None Detected - Tar Wrap
123	Duct Cover (Black) and Insulation	None Detected - Insulation None Detected - Tar Wrap
124	Duct Mastic (Black)	10% Chrysotile - Black Mastic
125	Duct Mastic (Black)	Not Analyzed - Positive Stop
126	Duct Mastic (Black)	Not Analyzed - Positive Stop
127	9" x 9" Floor Tile (Green with White Streaks) and Mastic	5% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client : Great Southern Engineering
 Project : MSFC Building 4619
 Project # : GSE-013

Lab Job No. : 08B-08484
 Report Date : 07/16/2008

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
01	Paper / Foil Wrap (Tan / Silver)	90%	Cellulose Fibers	60%	07/15	TS
			Glass Wool Fibers	20%		
			Metal Foil	20%		
	Tar Wrap (Black)	10%	Tar Binders	100%		
02	Paper / Foil Wrap (Tan / Silver)	100%	Cellulose Fibers	60%	07/15	TS
			Glass Wool Fibers	20%		
			Metal Foil	20%		
03	Insulation (Yellow)	85%	Mineral Wool Fibers	95%	07/15	TS
			Resin Binders	5%		
	Paper / Foil Wrap (Tan / Silver)	15%	Cellulose Fibers	60%		
			Glass Wool Fibers	20%		
		Metal Foil	20%			
04	Thermal Insulation (Light Grey)	99%	Amosite	2%	07/15	TS
			Mineral Wool Fibers	25%		
			Binders / Fillers	73%		
	Insulation (Yellow)	1%	Mineral Wool Fibers	95%		
			Resin Binders	5%		
05	Not Analyzed - Positive Stop	100%			07/15	TS
06	Not Analyzed - Positive Stop	100%			07/15	TS
07	White Mastic (White)	100%	Wollastonite	2%	07/15	TS
			Pigment / Binders	98%		
08	White Mastic (White)	50%	Polyethylene Fibers	5%	07/15	TS
			Wollastonite	5%		
			Pigment / Binders	90%		
	Grey Mastic (Grey)	50%	Calcite	50%		
			Pigment / Binders	50%		
09	Insulation (Yellow)	90%	Mineral Wool Fibers	95%	07/15	TS
			Resin Binders	5%		
	White Mastic (White)	10%	Wollastonite	2%		
			Pigment / Binders	98%		

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client : Great Southern Engineering
 Project : MSFC Building 4619
 Project # : GSE-013

Lab Job No. : 08B-08484
 Report Date : 07/16/2008

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
10	Insulation (Yellow)	25%	Mineral Wool Fibers	95%	07/15	TS
			Resin Binders	5%		
	Thermal Insulation (Light Grey)	25%	Mineral Wool Fibers	20%		
			Binders / Fillers	80%		
	Glass Fiber Mesh (White)	10%	Glass Wool Fibers	100%		
	White Mastic (White)	40%	Polyethylene Fibers	5%		
			Pigment / Binders	95%		
11	Thermal Insulation (Light Grey)	65%	Mineral Wool Fibers	20%	07/15	TS
			Binders / Fillers	80%		
	Glass Fiber Mesh (White)	10%	Glass Wool Fibers	100%		
	White Mastic (White)	25%	Chrysotile	5%		
			Pigment / Binders	95%		
12	Not Analyzed - Positive Stop	100%			07/15	TS
13	Duct Tape (Silver)	100%	Cotton Fibers	25%	07/15	TS
			Vinyl Binders	50%		
			Glue Binders	25%		
	Note: No Mastic Found					
14	Duct Tape (Silver)	100%	Cotton Fibers	25%	07/15	TS
			Vinyl Binders	50%		
			Glue Binders	25%		
	Note: No Mastic Found					
15	Gray Mastic (Gray)	100%	Cellulose Fibers	10%	07/15	TS
			Calcite	20%		
			Glue Binders	70%		
16	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	07/15	TS
			Mineral Wool Fibers	30%		
			Perlite	20%		
17	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	07/15	TS
			Mineral Wool Fibers	30%		
			Perlite	20%		

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client : Great Southern Engineering
 Project : MSFC Building 4619
 Project # : GSE-013

Lab Job No. : 08B-08484
 Report Date : 07/16/2008

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
18	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	07/15	TS
			Mineral Wool Fibers	30%		
			Perlite	20%		
19	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	07/15	TS
			Mineral Wool Fibers	30%		
			Perlite	20%		
20	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	07/15	TS
			Mineral Wool Fibers	30%		
			Perlite	20%		
21	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	07/15	TS
			Mineral Wool Fibers	30%		
			Perlite	20%		
22	Cove Base (Brown) No Mastic	100%	Calcite / Vinyl Binders	100%	07/15	TS
23	Cove Base (Brown) No Mastic	100%	Calcite / Vinyl Binders	100%	07/15	TS
24	Cove Base (Brown) No Mastic	100%	Calcite / Vinyl Binders	100%	07/15	TS
25	Stair Tread (Black)	90%	Calcite / Vinyl Binders	100%	07/15	TS
	Yellow Mastic (Yellow)	10%	Glue Binders	100%		
26	Stair Tread (Tan)	65%	Calcite / Vinyl Binders	100%	07/15	TS
	Yellow Mastic (Yellow)	35%	Glue Binders	100%		
27	Stair Tread (Black)	95%	Calcite / Vinyl Binders	100%	07/15	TS
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
28	Carpet (Blue)	99%	Synthetic Fibers	85%	07/15	TS
			Glue Binders	15%		
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client : Great Southern Engineering
 Project : MSFC Building 4619
 Project # : GSE-013

Lab Job No. : 08B-08484
 Report Date : 07/16/2008

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
29	Carpet (Blue)	99%	Synthetic Fibers	85%	07/15	TS
			Glue Binders	15%		
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
30	Carpet (Blue)	99%	Synthetic Fibers	85%	07/15	TS
			Glue Binders	15%		
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
31	Floor Tile (Green)	95%	Chrysotile	5%	07/15	TS
			Calcite / Vinyl Binders	95%		
	Black Mastic (Black)	5%	Chrysotile	5%		
			Tar Binders	95%		
32	Not Analyzed - Positive Stop	100%			07/15	TS
33	Not Analyzed - Positive Stop	100%			07/15	TS
34	Cove Base (Black)	90%	Calcite / Vinyl Binders	100%	07/15	TS
	Brown Mastic (Brown)	10%	Glue Binders	100%		
35	Cove Base (Black)	90%	Calcite / Vinyl Binders	100%	07/15	TS
	Brown Mastic (Brown)	10%	Glue Binders	100%		
36	Cove Base (Black)	90%	Calcite / Vinyl Binders	100%	07/15	TS
	Brown Mastic (Brown)	10%	Glue Binders	100%		
37	Floor Tile (Olive)	97%	Chrysotile	3%	07/15	TS
			Calcite / Vinyl Binders	97%		
	Black Mastic (Black)	3%	Chrysotile	5%		
			Tar Binders	95%		
38	Not Analyzed - Positive Stop	100%			07/15	TS
39	Not Analyzed - Positive Stop	100%			07/15	TS
40	Carpet (Brown/Black)	96%	Synthetic Fibers	45%	07/15	TS
			Calcite / Vinyl Binders	55%		
	Yellow Mastic (Yellow)	4%	Glue Binders	100%		

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client : Great Southern Engineering
 Project : MSFC Building 4619
 Project # : GSE-013

Lab Job No. : 08B-08484
 Report Date : 07/16/2008

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
41	Carpet (Brown/Black)	96%	Synthetic Fibers	45%	07/15	TS
			Calcite / Vinyl Binders	55%		
41	Yellow Mastic (Yellow)	4%	Glue Binders	100%		
42	Carpet (Brown/Black)	96%	Synthetic Fibers	45%	07/15	TS
			Calcite / Vinyl Binders	55%		
42	Yellow Mastic (Yellow)	4%	Glue Binders	100%		
43	Drywall Material (White)	80%	Cellulose Fibers	5%	07/15	TS
			Gypsum / Binders	95%		
	DW Paper Facing (Tan)	10%	Cellulose Fibers	100%		
	Joint Compound (White)	10%	Calcite / Talc / Binders	100%		
44	Drywall Material (White)	35%	Cellulose Fibers	5%	07/15	TS
			Gypsum / Binders	95%		
	DW Paper Facing (Tan)	35%	Cellulose Fibers	100%		
	Joint Compound (White)	30%	Calcite / Talc / Binders	100%		
45	Drywall Material (White)	45%	Cellulose Fibers	5%	07/15	TS
			Gypsum / Binders	95%		
	DW Paper Facing (Tan)	45%	Cellulose Fibers	100%		
	Joint Compound (White)	5%	Calcite / Talc / Binders	100%		
	Texture (White)	5%	Calcite / Talc / Binders	100%		
46	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	07/15	TS
			Mineral Wool Fibers	30%		
			Perlite	20%		
47	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	07/15	TS
			Mineral Wool Fibers	30%		
			Perlite	20%		
48	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	07/15	TS
			Mineral Wool Fibers	30%		
			Perlite	20%		

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client : Great Southern Engineering
 Project : MSFC Building 4619
 Project # : GSE-013

Lab Job No. : 08B-08484
 Report Date : 07/16/2008

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
49	Floor Tile (Olive/Green)	100%	Chrysotile	10%	07/15	TS
	Insufficient Mastic		Calcite / Vinyl Binders	90%		
50	Not Analyzed - Positive Stop	100%			07/15	TS
51	Not Analyzed - Positive Stop	100%			07/15	TS
52	Grey Plaster (Grey)	65%	Aggregate	65%	07/15	TS
	White Plaster (White)	35%	Calcite / Binders	100%		
53	Light Grey Plaster (Light Grey)	10%	Aggregate	65%	07/15	TS
			Calcite / Binders	35%		
	Grey Plaster (Grey)	75%	Aggregate	65%		
			Calcite / Binders	35%		
	White Plaster (White)	15%	Calcite / Binders	100%		
54	Light Grey Plaster (Light Grey)	15%	Aggregate	65%	07/15	TS
			Calcite / Binders	35%		
	Grey Plaster (Grey)	75%	Aggregate	65%		
			Calcite / Binders	35%		
	White Plaster (White)	10%	Calcite / Binders	100%		
55	Floor Tile (Light Gray)	95%	Chrysotile	10%	07/15	TS
			Calcite / Vinyl Binders	90%		
	Black Mastic (Black)	5%	Chrysotile	5%		
			Tar Binders	95%		
56	Not Analyzed - Positive Stop	100%			07/15	TS
57	Not Analyzed - Positive Stop	100%			07/15	TS
58	Floor Tile (Tan)	97%	Chrysotile	10%	07/15	TS
			Calcite / Vinyl Binders	90%		
	Black Mastic (Black)	3%	Chrysotile	5%		
			Tar Binders	95%		
59	Not Analyzed - Positive Stop	100%			07/15	TS

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client : Great Southern Engineering
 Project : MSFC Building 4619
 Project # : GSE-013

Lab Job No. : 08B-08484
 Report Date : 07/16/2008

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
60	Not Analyzed - Positive Stop	100%			07/15	TS
61	Acoustic Tile (Light Grey)	100%	Cellulose Fibers Mineral Wool Fibers Perlite	50% 30% 20%	07/15	TS
62	Acoustic Tile (Light Grey)	100%	Cellulose Fibers Mineral Wool Fibers Perlite	50% 30% 20%	07/15	TS
63	Acoustic Tile (Light Grey)	100%	Cellulose Fibers Mineral Wool Fibers Perlite	50% 30% 20%	07/15	TS
64	Floor Tile (Beige) Black Mastic (Black)	97% 3%	Calcite / Vinyl Binders Chrysotile Tar Binders	100% 5% 95%	07/15	TS
65	Not Analyzed - Positive Stop	100%			07/15	TS
66	Not Analyzed - Positive Stop	100%			07/15	TS
67	Floor Tile (Peach) Black Mastic (Black)	97% 3%	Chrysotile Calcite / Vinyl Binders Chrysotile Tar Binders	3% 97% 5% 95%	07/15	TS
68	Not Analyzed - Positive Stop	100%			07/15	TS
69	Not Analyzed - Positive Stop	100%			07/15	TS
70	Carpet (Green) Black Mastic (Black)	95% 5%	Synthetic Fibers Binders / Fillers Chrysotile Tar Binders	90% 10% 5% 95%	07/15	TS
71	Green Mastic (Green)	100%	Glue Binders	100%	07/15	TS
72	Green Mastic (Green)	100%	Glue Binders	100%	07/15	TS
73	Green Mastic (Green)	100%	Glue Binders	100%	07/15	TS
74	Green Mastic (Green)	100%	Glue Binders	100%	07/15	TS

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client : Great Southern Engineering
 Project : MSFC Building 4619
 Project # : GSE-013

Lab Job No. : 08B-08484
 Report Date : 07/16/2008

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
75	Green Mastic (Green)	100%	Glue Binders	100%	07/15	TS
76	Cove Base (Tan)	95%	Calcite / Vinyl Binders	100%	07/15	TS
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
77	Cove Base (Tan)	95%	Calcite / Vinyl Binders	100%	07/15	TS
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
78	Cove Base (Tan) No Mastic	100%	Calcite / Vinyl Binders	100%	07/15	TS
79	Green Mastic (Green)	100%	Glue Binders	100%	07/15	TS
80	Green Mastic (Green)	100%	Glue Binders	100%	07/15	TS
81	Green Mastic (Green)	100%	Glue Binders	100%	07/15	TS
82	Floor Tile (Tan) No Mastic	100%	Calcite / Vinyl Binders	100%	07/15	TS
83	Floor Tile (Tan) No Mastic	100%	Calcite / Vinyl Binders	100%	07/15	TS
84	Floor Tile (Tan)	97%	Chrysotile	5%	07/15	TS
			Calcite / Vinyl Binders	95%		
	Black Mastic (Black)	3%	Chrysotile	3%		
			Tar Binders	97%		
85	Non - Skid Strip (Black)	95%	Aggregate	65%	07/16	TS
			Synthetic Fiber Mesh	20%		
			Binders / Fillers	15%		
	Clear Mastic (Clear)	5%	Glue Binders	100%		
86	Non - Skid Strip (Black)	95%	Aggregate	65%	07/16	TS
			Synthetic Fiber Mesh	20%		
			Binders / Fillers	15%		
	Clear Mastic (Clear)	5%	Glue Binders	100%		

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client : Great Southern Engineering
 Project : MSFC Building 4619
 Project # : GSE-013

Lab Job No. : 08B-08484
 Report Date : 07/16/2008

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
87	Non - Skid Strip (Black)	95%	Aggregate	65%	07/15	TS
			Synthetic Fiber Mesh	20%		
	Clear Mastic (Clear)	5%	Binders / Fillers	15%		
			Glue Binders	100%		
88	Non - Skid Strip (Black)	95%	Aggregate	65%	07/16	TS
			Synthetic Fiber Mesh	20%		
	Clear Mastic (Clear)	5%	Binders / Fillers	15%		
			Glue Binders	100%		
89	Flooring (Blue)	70%	Vinyl Binders	100%	07/16	TS
	Yellow Mastic (Yellow)	30%	Glue Binders	100%		
90	Flooring (Blue)	70%	Vinyl Binders	100%	07/16	TS
	Yellow Mastic (Yellow)	30%	Glue Binders	100%		
91	Wall Panel (White)	100%	Glass Wool Mesh	90%	07/16	TS
			Binders / Fillers	10%		
92	Insulation (Yellow)	90%	Mineral Wool Fibers	95%	07/16	TS
			Resin Binders	5%		
	Wall Panel (White)	10%	Glass Wool Mesh	90%		
			Binders / Fillers	10%		
93	Insulation (Yellow)	70%	Mineral Wool Fibers	95%	07/16	TS
			Resin Binders	5%		
	Wall Panel (White)	30%	Glass Wool Mesh	90%		
			Binders / Fillers	10%		
94	Acoustic Tile (White)	100%	Amosite	5%	07/16	TS
			Mineral Wool Fibers	90%		
			Binders / Fillers	5%		
95	Not Analyzed - Positive Stop	100%			07/16	TS
96	Not Analyzed - Positive Stop	100%			07/16	TS

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client : Great Southern Engineering
 Project : MSFC Building 4619
 Project # : GSE-013

Lab Job No. : 08B-08484
 Report Date : 07/16/2008

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
97	Floor Tile (Beige)	98%	Chrysotile	5%	07/16	TS
			Calcite / Vinyl Binders	95%		
	Yellow Mastic (Yellow)	2%	Glue Binders	100%		
98	Not Analyzed - Positive Stop	100%			07/16	TS
99	Not Analyzed - Positive Stop	100%			07/16	TS
100	Floor Tile (Beige)	96%	Chrysotile	5%	07/16	TS
			Calcite / Vinyl Binders	95%		
	Black Mastic (Black)	4%	Chrysotile	5%		
			Tar Binders	95%		
101	Not Analyzed - Positive Stop	100%			07/16	TS
102	Not Analyzed - Positive Stop	100%			07/16	TS
103	Floor Tile (White)	99%	Calcite / Vinyl Binders	100%	07/16	TS
			Glue Binders	100%		
104	Floor Tile (White)	99%	Calcite / Vinyl Binders	100%	07/16	TS
			Glue Binders	100%		
105	Floor Tile (White)	99%	Calcite / Vinyl Binders	100%	07/16	TS
			Glue Binders	100%		
106	Mastic (Black)	100%	Binders / Fillers	100%	07/16	TS
107	Mastic (Black)	100%	Binders / Fillers	100%	07/16	TS
108	Mastic (Black)	100%	Binders / Fillers	100%	07/16	TS
109	Wall Covering (White/Tan)	95%	Synthetic Fibers	75%	07/16	TS
			Cotton Fibers	25%		
	Yellow Mastic (Yellow)	5%	Calcite	40%		
			Glue Binders	60%		
110	Wall Covering (White/Tan)	95%	Synthetic Fibers	75%	07/16	TS
			Cotton Fibers	25%		
	Yellow Mastic (Yellow)	5%	Calcite	40%		
			Glue Binders	60%		

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client : Great Southern Engineering
 Project : MSFC Building 4619
 Project # : GSE-013

Lab Job No. : 08B-08484
 Report Date : 07/16/2008

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
111	Wall Covering (White/Tan)	95%	Synthetic Fibers	75%	07/16	TS
			Cotton Fibers	25%		
	Yellow Mastic (Yellow)	5%	Calcite	40%		
			Glue Binders	60%		
112	Black Mastic (Black)	100%	Chrysotile	5%	07/16	TS
			Tar Binders	95%		
113	Not Analyzed - Positive Stop	100%			07/16	TS
114	Not Analyzed - Positive Stop	100%			07/16	TS
115	Duct Mastic (Olive Gray)	100%	Calcite	60%	07/16	TS
			Glue Binders	40%		
116	Duct Mastic (Olive Gray)	100%	Calcite	60%	07/16	TS
			Glue Binders	40%		
117	Duct Mastic (Olive Gray)	100%	Calcite	60%	07/16	TS
			Glue Binders	40%		
118	Sealant (Tan)	100%	Synthetic Fibers	5%	07/16	TS
			Calcite	40%		
			Binders / Fillers	55%		
119	Sealant (Tan)	100%	Synthetic Fibers	5%	07/16	TS
			Calcite	40%		
			Binders / Fillers	55%		
120	Sealant (Tan)	100%	Synthetic Fibers	5%	07/16	TS
			Calcite	40%		
			Binders / Fillers	55%		
121	Insulation (Yellow)	50%	Mineral Wool Fibers	95%	07/16	TS
			Resin Binders	5%		
	Tar Wrap (Black)	50%	Tar Binders	100%		
122	Insulation (Yellow)	50%	Mineral Wool Fibers	95%	07/16	TS
			Resin Binders	5%		
	Tar Wrap (Black)	50%	Tar Binders	100%		

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client : Great Southern Engineering
 Project : MSFC Building 4619
 Project # : GSE-013

Lab Job No. : 08B-08484
 Report Date : 07/16/2008

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
123	Insulation (Yellow)	50%	Mineral Wool Fibers	95%	07/16	TS
			Resin Binders	5%		
	Tar Wrap (Black)	50%	Tar Binders	100%		
124	Black Mastic (Black)	100%	Chrysotile	10%	07/16	TS
			Tar Binders	90%		
125	Not Analyzed - Positive Stop	100%			07/16	TS
126	Not Analyzed - Positive Stop	100%			07/16	TS
127	Floor Tile (Green)	95%	Chrysotile	5%	07/16	TS
			Calcite / Vinyl Binders	95%		
	Black Mastic (Black)	5%	Chrysotile	5%		
			Tar Binders	95%		
128	Not Analyzed - Positive Stop	100%			07/16	TS
129	Not Analyzed - Positive Stop	100%			07/16	TS

PLM Summary Report

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 (Phone 972-241-8460)

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client : Great Southern Engineering Lab Job No. : 08B-11084
 Project : MSFC, Building 4619 Report Date : 09/25/2008
 Project # : GSE-013 Sample Date : 09/20/2008
 Identification : Asbestos, Bulk Sample Analysis
 Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS)
 EPA Method 600 / R-93 / 116

Page 1 of 1

On 9/25/2008, nine (9) bulk material samples were submitted by a representative of Great Southern Engineering for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
130	Pipe Insulation with Cloth Cover	None Detected - Insulation None Detected - Cotton Wrap
131	Pipe Insulation with Cloth Cover	None Detected - Insulation None Detected - Cotton Wrap
132	Pipe Insulation with Cloth Cover	None Detected - Insulation None Detected - Cotton Wrap
133	Mastic (Black) on Pipe Insulation	None Detected - Insulation None Detected - Paper/Tar/Foil Wrap 5% Chrysotile - Black Mastic
134	Mastic (Black) on Pipe Insulation	Not Analyzed - Positive Stop
135	Mastic (Black) on Pipe Insulation	Not Analyzed - Positive Stop
136	Duct Mastic (Gray)	None Detected - Gray Mastic
137	Duct Mastic (Gray)	None Detected - Gray Mastic
138	Duct Mastic (Gray)	None Detected - Gray Mastic

These samples were analyzed by layers. Quantification, unless otherwise noted, is performed by calibrated visual estimate. Results may not be reproduced except in full. This test report relates only to the samples tested. These test results do not imply endorsement by NVLAP or any agency of the U.S. Government. Accredited by the National Voluntary Laboratory Accreditation Program for Bulk Asbestos Fiber Analysis under Lab Code 102056.



Analyst(s): Jessica Scott

Lab Manager : Bruce Crabb

Lab Director : Steve Moody

Approved Signatory : 

Approved Signatory : 

Thank you for choosing Steve Moody Micro Services

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab No. 102056
 TDSHS License No. 30-0084

Client : Great Southern Engineering
 Project : MSFC, Building 4619
 Project # : GSE-013

Lab Job No. : 08B-11084
 Report Date : 09/25/2008

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
130	Insulation (Yellow)	90%	Mineral Wool Fibers	95%	09/25	JS
			Resin Binders	5%		
	Cotton Wrap (Off-White)	10%	Cotton Fibers	100%		
131	Insulation (Yellow)	95%	Mineral Wool Fibers	95%	09/25	JS
			Resin Binders	5%		
	Cotton Wrap (Off-White)	5%	Cotton Fibers	100%		
132	Insulation (Yellow)	90%	Mineral Wool Fibers	95%	09/25	JS
			Resin Binders	5%		
	Cotton Wrap (Off-White)	10%	Cotton Fibers	100%		
133	Insulation (Orange)	82%	Mineral Wool Fibers	95%	09/25	JS
			Resin Binders	5%		
	Paper/Tar/Foil Wrap (Tan / Silver)	15%	Cellulose Fibers	50%		
			Tar Binders	30%		
			Metal Foil	20%		
	Black Mastic (Black)	3%	Chrysotile	5%		
			Tar Binders	95%		
134	Not Analyzed - Positive Stop	100%			09/25	JS
135	Not Analyzed - Positive Stop	100%			09/25	JS
136	Gray Mastic (Gray)	100%	Cellulose Fibers	5%	09/25	JS
			Calcite	55%		
			Glue Binders	40%		
137	Gray Mastic (Gray)	100%	Cellulose Fibers	5%	09/25	JS
			Calcite	55%		
			Glue Binders	40%		
138	Gray Mastic (Gray)	100%	Cellulose Fibers	5%	09/25	JS
			Calcite	55%		
			Glue Binders	40%		



Asbestos Chain of Custody

PLM-Bulk: Rush=1 day ♦ Normal=2 day ♦ Special 2-3day
 ANALYZE ALL ♦ POSITIVE STOP

Lab Job# 88-08484 pm
Lab Job# 129
Lab Job# _____

****Please call in advance for after-hour & weekend rush analysis****

Company Name and City: Great Southern Engineering, Inc.

Submitter's Name: R. J. Smith

Sample date: 7-10-08

P.O. No: _____

Project: MSFC Bldg 4619

Project No: GSE-013

Contact Information: Name: John Jackson / Kaye Meeks

Phone #: 256-350-9754

E-mail: (address): jjackson@gseinc.com & manju@gseinc.com

Mobile #: 256-303-9318

Hard copy: (address): 3795 Gordon Terry Parkway, Trinity, AL 35673

Fax #: 256-350-9768

Invoice Address (if different): _____

** Please review paperwork and samples before submitting to lab. Uncontained / improperly packaged samples or excessive administrative requests may incur additional fees.**

Sample No.	Sample Description
01	Pipe Insulation Cover
02	↓
03	↓
04	Elbow : Fitting Insulation
05	↓
06	↓
07	White Mastic on New Pipe Insulation
08	↓
09	↓
10	Elbow : Fitting Insulation
11	↓
12	↓
13	Gray Mastic on Pipe Insulation
14	↓
15	↓
16	2x4 Ceiling Tile (Large Fissures)
17	↓
18	↓

Released by:	Date/Time: <u>7/11/08 1515</u>	Received By:	Date/Time: <u>1515</u>
Released by:	Date/Time: <u>7-14-2008 1600</u>	Received By:	Date/Time: <u>7-14-2008</u>
Released by: _____	Date/Time: _____	Received By: _____	Date/Time: <u>7-15-08/1514</u>

Notes: _____



Asbestos Chain of Custody

PLM-Bulk: Rush=1 day ♦ Normal=2 day ♦ Special 2-3day
 ANALYZE ALL ♦ POSITIVE STOP

Lab Job# BB-08484
 Lab Job# _____
 Lab Job# _____

****Please call in advance for after-hour & weekend rush analysis****

Company Name and City: Great Southern Engineering, Inc.
 Submitter's Name: R.J. Smith Sample date: 7-10-08 P.O. No: _____
 Project: MSFC Bldg 4619 Project No: GSE-013
 Contact Information: Name: John Jackson / Kaye Meeks Phone #: 256-350-9754
 E-mail: (address): jjackson@gseinc.com & manju@gseinc.com Mobile #: 256-303-9318
 Hard copy: (address): 3795 Gordon Terry Parkway, Trinity, AL 35673 Fax #: 256-350-9768
 Invoice Address (if different): _____

* Please review paperwork and samples before submitting to lab. Uncontained / improperly packaged samples or excessive administrative requests may incur additional fees.*

Sample No.	Sample Description
19	2x4 Ceiling Tile (Small Fissures)
20	↓
21	↓
22	Brown Core Base & Mastic
23	↓
24	↓
25	Stair Tread & Mastic
26	↓
27	↓
28	Carpet Mastic - Blue Carpet
29	↓
30	↓
31	9x9 Green Floor Tile w/ White & Blue Speckles & Mastic
32	↓
33	↓
34	Black Core Base & Mastic
35	↓
36	↓

Released by:	Date/Time: <u>7/11/08 1515</u>	Received By:	Date/Time: <u>7-14-2008 1515</u>
Released by:	Date/Time: <u>7-14-2008 1000</u>	Received By:	Date/Time: <u>7-15-08/9:15A</u>
Released by: _____	Date/Time: _____	Received By: _____	Date/Time: _____

Notes: _____



Asbestos Chain of Custody

PLM-Bulk: Rush=1 day ♦ Normal=2 day ♦ Special 2-3day
 ANALYZE ALL ♦ POSITIVE STOP

Lab Job# 8B-08484
 Lab Job# _____
 Lab Job# _____

****Please call in advance for after-hour & weekend rush analysis****

Company Name and City: Great Southern Engineering, Inc.
 Submitter's Name: R.J. Smith Sample date: 7-10-08 P.O. No: _____
 Project: MSFC Bldg 4619 Project No: GSE-013
 Contact Information: Name: John Jackson / Kaye Meeks Phone #: 256-350-9754
 E-mail: (address): jjackson@gseinc.com & manju@gseinc.com Mobile #: 256-303-9318
 Hard copy: (address): 3795 Gordon Terry Parkway, Trinity, AL 35673 Fax #: 256-350-9768
 Invoice Address (if different): _____

* Please review paperwork and samples before submitting to lab. Uncontained / improperly packaged samples or excessive administrative requests may incur additional fees.*

Sample No.	Sample Description
37	12x12 Olive Floor Tile w/white speckles : Mastic
38	↓
39	↓
40	Non-Skid Carpet : Mastic
41	↓
42	↓
43	Wallboard : Joint Compound
44	↓
45	↓
46	2x4 Ceiling Tile (Textured w/ Pinholes)
47	↓
48	↓
49	9x9 Olive Floor Tile w/green + white streaks : Mastic
50	↓
51	↓
52	Plaster
53	↓
54	↓

Released by: <u>[Signature]</u>	Date/Time: <u>7/11/08 1515</u>	Received By: <u>[Signature]</u>	Date/Time: <u>7-14-2008 1515</u>
Released by: <u>[Signature]</u>	Date/Time: <u>7-14-2008 1600</u>	Received By: <u>[Signature]</u>	Date/Time: <u>7-15-08 / 9:15 AM</u>
Released by: _____	Date/Time: _____	Received By: _____	Date/Time: _____

Notes: _____



Asbestos Chain of Custody

PLM-Bulk: Rush=1 day ♦ Normal=2 day ♦ Special 2-3day
 ANALYZE ALL ♦ POSITIVE STOP

Lab Job#	<u>8B-08484</u>
Lab Job#	_____
Lab Job#	_____

****Please call in advance for after-hour & weekend rush analysis****

Company Name and City: Great Southern Engineering, Inc.

Submitter's Name: R J Smith Sample date: 7-10-08 P.O. No: _____

Project: MSFC Bldg 4619 Project No: GSE-013

Contact Information: Name: John Jackson / Kaye Meeks Phone #: 256-350-9754

E-mail: (address): jjackson@gseinc.com & manju@gseinc.com Mobile #: 256-303-9318

Hard copy: (address): 3795 Gordon Terry Parkway, Trinity, AL 35673 Fax #: 256-350-9768

Invoice Address (if different): _____

** Please review paperwork and samples before submitting to lab. Uncontained / improperly packaged samples or excessive administrative requests may incur additional fees. **

Sample No.	Sample Description
55	9x9 Lt Gray Floor Tile w/ Gray & White Streaks & Mastic
56	↓
57	↓
58	9x9 Tan Floor Tile w/ Maroon & White Streaks & Mastic
59	↓
60	↓
61	2x2 Ceiling Tile (heavy dot pattern)
62	↓
63	↓
64	12x12 Beige Floor Tile w/ White Speckles & Mastic
65	↓
66	↓
67	12x12 Peach Floor Tile w/ Brown & White Speckles & Mastic
68	↓
69	↓
70	Carpet Mastic - Green Carpet
71	↓
72	↓

Released by: <u>[Signature]</u>	Date/Time: <u>7/11/08 1515</u>	Received By: <u>[Signature]</u>	Date/Time: <u>7-14-2008 1515</u>
Released by: <u>[Signature]</u>	Date/Time: <u>7-14-2008 1600</u>	Received By: <u>[Signature]</u>	Date/Time: <u>7-15-08/9:15h</u>
Released by: _____	Date/Time: _____	Received By: _____	Date/Time: _____

Notes: _____



Asbestos Chain of Custody

PLM-Bulk: Rush=1 day ♦ Normal=2 day ♦ Special 2-3day
 ANALYZE ALL ♦ POSITIVE STOP

Lab Job# 88-08484
Lab Job# _____
Lab Job# _____

****Please call in advance for after-hour & weekend rush analysis****

Company Name and City: Great Southern Engineering, Inc.

Submitter's Name: R.J. Smith Sample date: 7-10-08 P.O. No: _____

Project: MSFC Bldg 4619 Project No: GSE-013

Contact Information: Name: John Jackson / Kaye Meeks Phone #: 256-350-9754

E-mail: (address): jjackson@gseinc.com & manju@gseinc.com Mobile #: 256-303-9318

Hard copy: (address): 3795 Gordon Terry Parkway, Trinity, AL 35673 Fax #: 256-350-9768

Invoice Address (if different): _____

** Please review paperwork and samples before submitting to lab. Uncontained / improperly packaged samples or excessive administrative requests may incur additional fees.**

Sample No.	Sample Description
73	Carpet Mastic for Multi-colored Carpet
74	↓
75	↓
76	Tan Concrete Base & Mastic
77	↓
78	↓
79	Dark Green Mastic
80	↓
81	↓
82	12x12 Tan Floor Tile w/ Smudges & Mastic
83	↓
84	↓
85	Non-Skid Strips
86	↓
87	↓
88	Blue Non-Skid Flooring & Mastic
89	↓
90	↓

Released by:	Date/Time: <u>7/11/08</u>	Received By:	Date/Time: <u>7-14-2008 1515</u>
Released by:	Date/Time: <u>7-14-08 1600</u>	Received By:	Date/Time: <u>7-15-08/91150</u>
Released by: _____	Date/Time: _____	Received By: _____	Date/Time: _____

Notes: _____



Asbestos Chain of Custody

PLM-Bulk: Rush=1 day ♦ Normal=2 day ♦ Special 2-3day
 ANALYZE ALL ♦ POSITIVE STOP

Lab Job# 88-08984
Lab Job# _____
Lab Job# _____

****Please call in advance for after-hour & weekend rush analysis****

Company Name and City: Great Southern Engineering, Inc.

Submitter's Name: RS Smith

Sample date: 7-10-08

P.O. No: _____

Project: MSFC Bldg 4619

Project No: GSE-013

Contact Information: Name: John Jackson / Kaye Meeks

Phone #: 256-350-9754

E-mail: (address): jjackson@gseinc.com & manju@gseinc.com

Mobile #: 256-303-9318

Hard copy: (address): 3795 Gordon Terry Parkway, Trinity, AL 35673

Fax #: 256-350-9768

Invoice Address (if different): _____

** Please review paperwork and samples before submitting to lab. Uncontained / improperly packaged samples or excessive administrative requests may incur additional fees.**

Sample No.	Sample Description
91	Wall Panels
92	↓
93	↓
94	2x4 Ceiling Tile (S-dot pattern)
95	↓
96	↓
97	12x12 white Floor Tile w/ Black Speckles & Mastic
98	↓
99	↓
100	12x12 Beige Floor Tile & Mastic
101	↓
102	↓
103	White Computer Floor w/ Black Streaks
104	↓
105	↓
106	Mastic - Computer Floor Pedistals
107	↓
108	↓

Released by: <u>[Signature]</u>	Date/Time: <u>7/11/08 1515</u>	Received By: <u>[Signature]</u>	Date/Time: <u>7-14-2008 1515</u>
Released by: <u>[Signature]</u>	Date/Time: <u>7-14-2008 1600</u>	Received By: <u>[Signature]</u>	Date/Time: <u>7-15-08/9:15A</u>
Released by: _____	Date/Time: _____	Received By: _____	Date/Time: _____

Notes: _____



Asbestos Chain of Custody

PLM-Bulk: Rush=1 day ♦ Normal=2 day ♦ Special 2-3day
 ANALYZE ALL ♦ POSITIVE STOP

Lab Job# 8B-08984
 Lab Job# _____
 Lab Job# _____

****Please call in advance for after-hour & weekend rush analysis****

Company Name and City: Great Southern Engineering, Inc.

Submitter's Name: R.J. Smith

Sample date: 7-10-08

P.O. No: _____

Project: MSFC Bldg 4619

Project No: GSE-013

Contact Information: Name: John Jackson / Kaye Meeks

Phone #: 256-350-9754

E-mail: (address): jjackson@gseinc.com & manju@gseinc.com

Mobile #: 256-303-9318

Hard copy: (address): 3795 Gordon Terry Parkway, Trinity, AL 35673

Fax #: 256-350-9768

Invoice Address (if different): _____

** Please review paperwork and samples before submitting to lab. Uncontained / improperly packaged samples or excessive administrative requests may incur additional fees.**

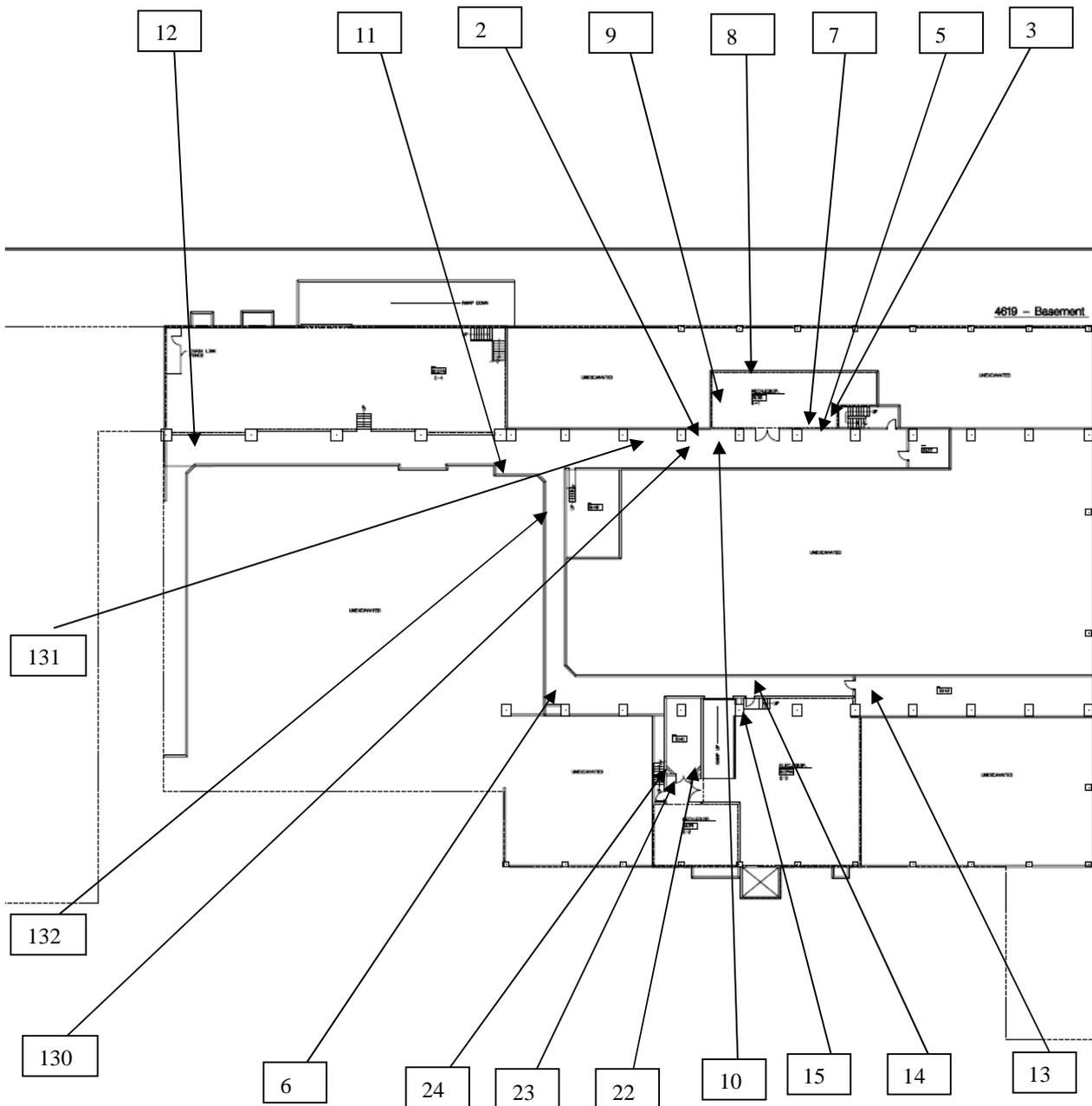
Sample No.	Sample Description
109	Acoustical Wall Covering & Mastic
110	↓
111	↓
112	Black Wall Mastic
113	↓
114	↓
115	Olive Gray Duct Mastic
116	↓
117	↓
118	Tan Penetration Sealer
119	↓
120	↓
121	Black Duct Cover & Insulation
122	↓
123	↓
124	Black Duct Mastic
125	↓
126	↓

Released by:	Date/Time: <u>7/11/08</u>	Received By:	Date/Time: <u>7-14-2008 1515</u>
Released by:	Date/Time: <u>7-14-08 1600</u>	Received By:	Date/Time: <u>7-15-08/1:15A</u>
Released by: _____	Date/Time: _____	Received By: _____	Date/Time: _____

Notes: _____

Appendix B

ACM Sample Location Drawings

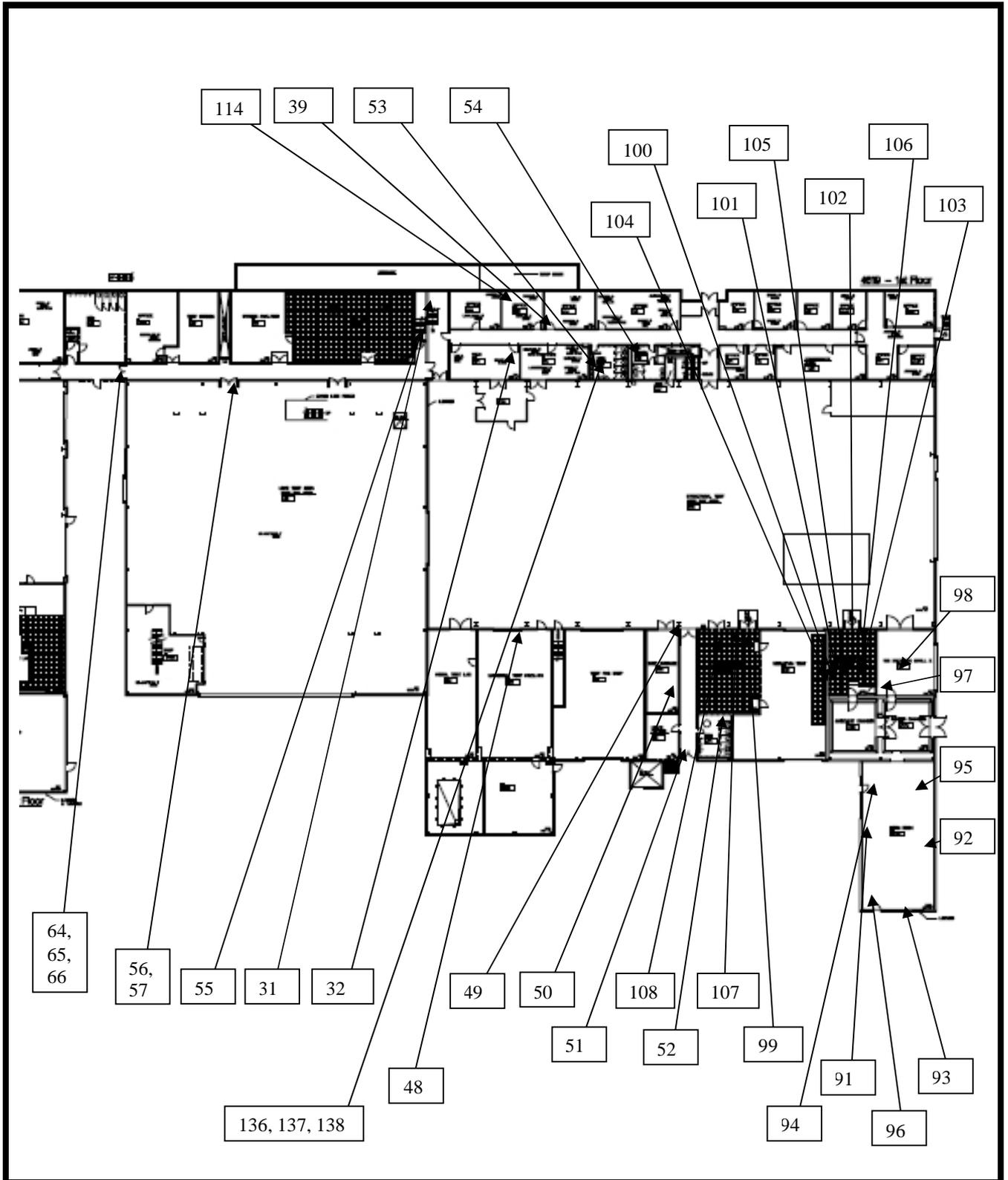


Basement- East Wing



**Building 4619
Marshall Space Flight Center
Marshall Space Flight Center, AL**

Task Order #GSE-013

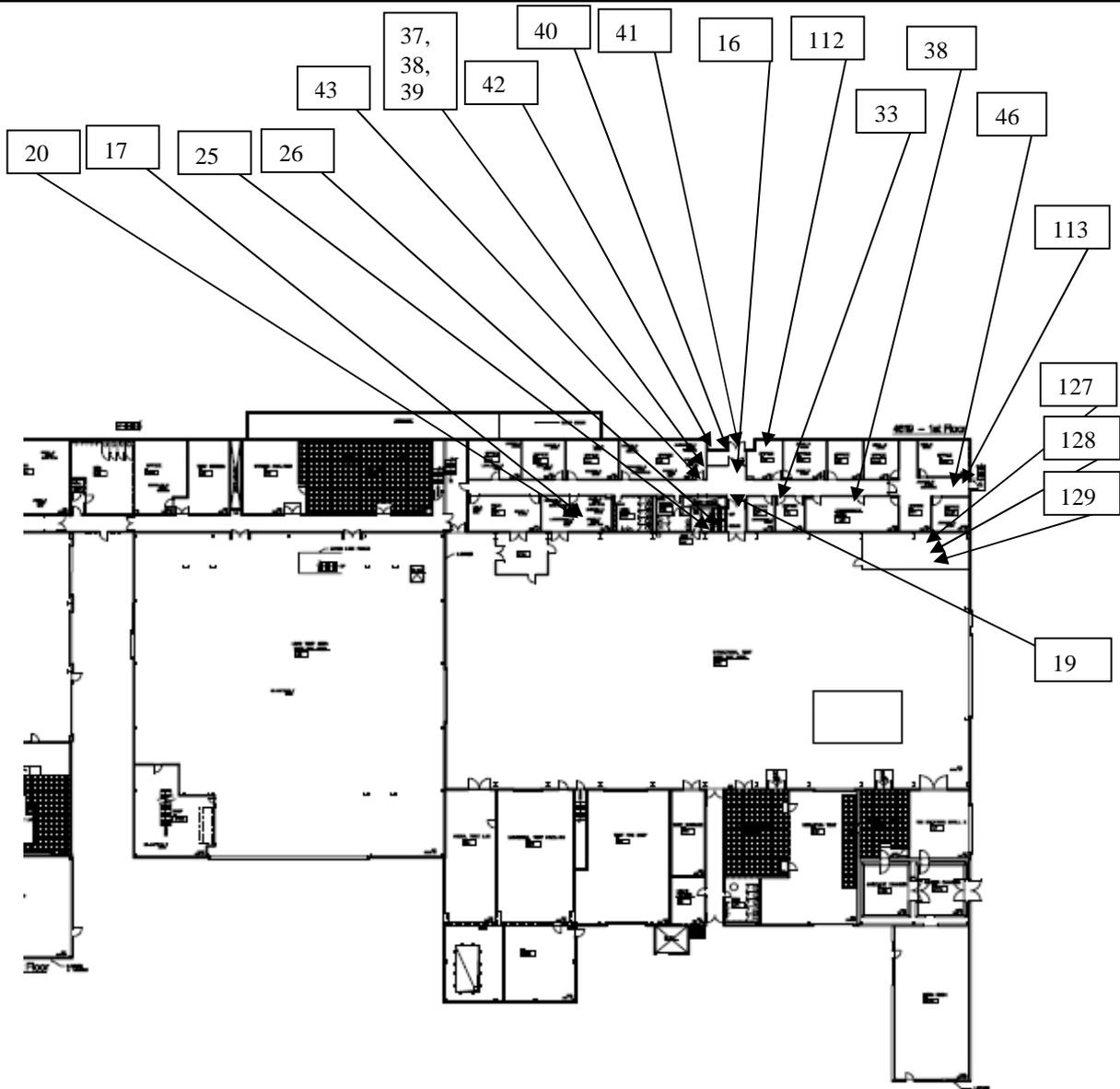


First Floor- East Wing



**Building 4619
Marshall Space Flight Center
Marshall Space Flight Center, AL**

Task Order #GSE-013

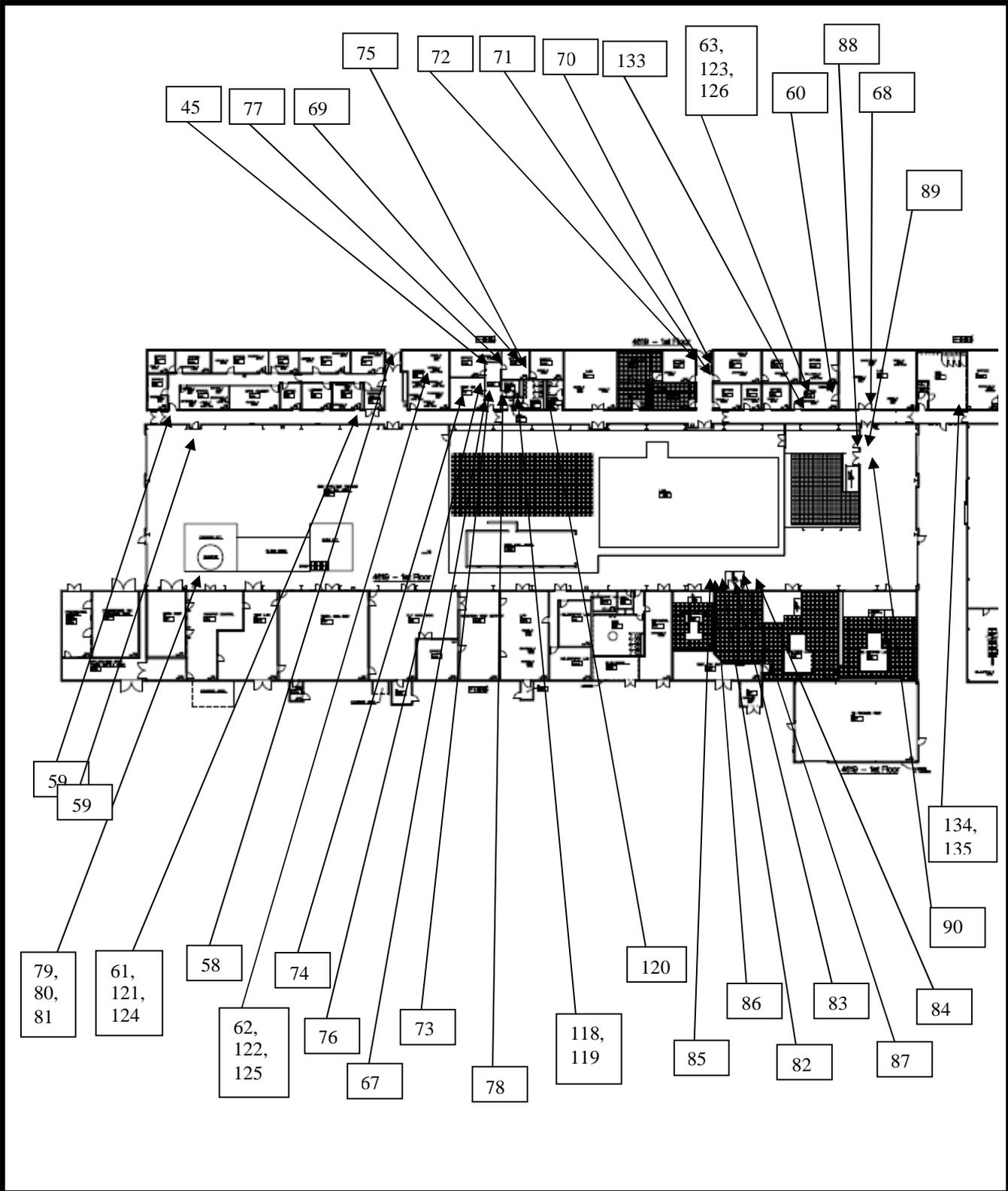


First Floor- East Wing



**Building 4619
Marshall Space Flight Center
Marshall Space Flight Center, AL**

Task Order #GSE-013

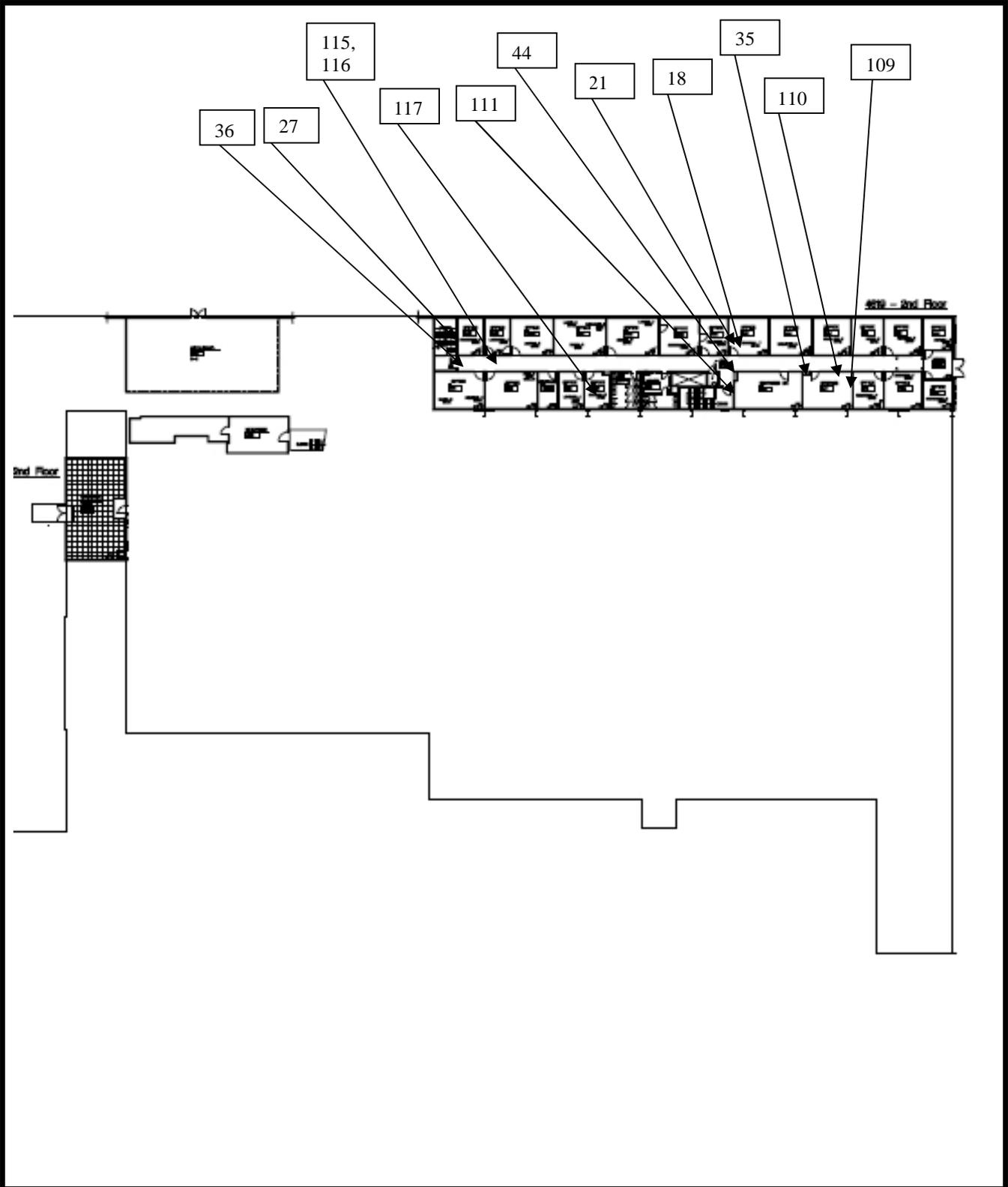


First Floor – West Wing



**Building 4619
Marshall Space Flight Center
Marshall Space Flight Center, AL**

Task Order #GSE-013



Second Floor– East Wing



**Building 4619
Marshall Space Flight Center
Marshall Space Flight Center, AL**

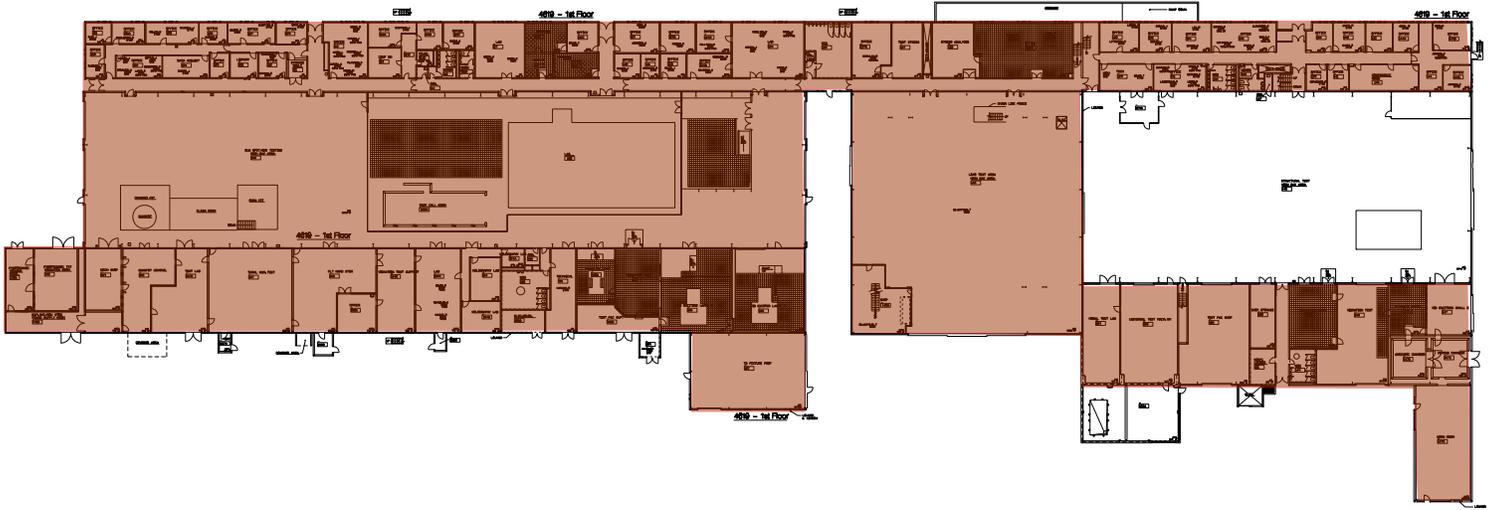
Task Order #GSE-013

Appendix C

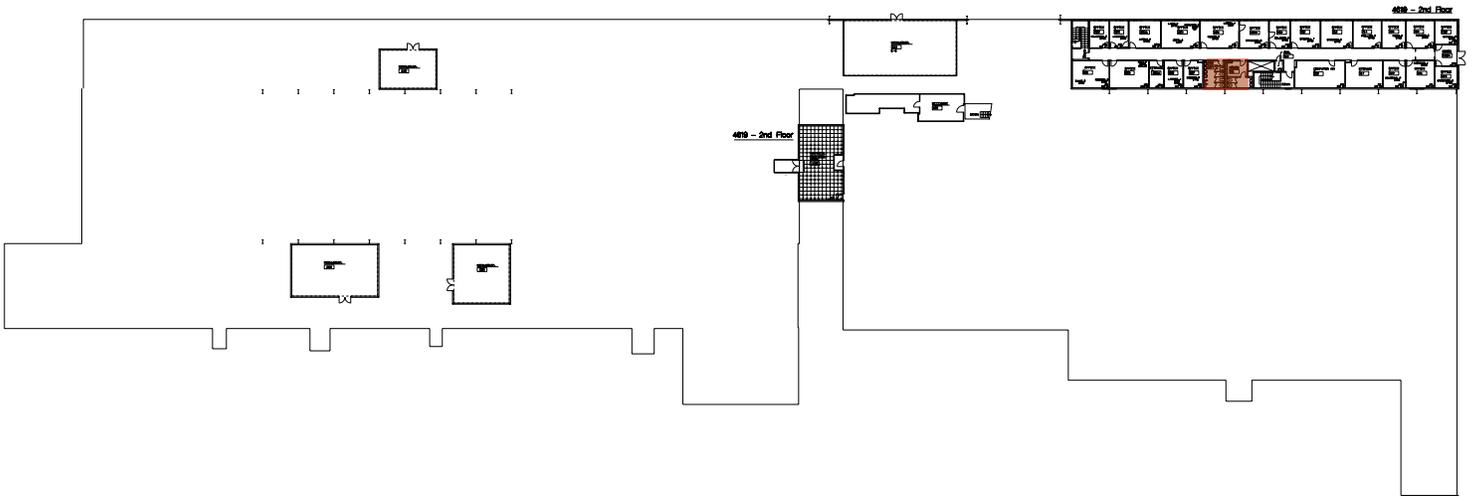
ACM Location Diagrams



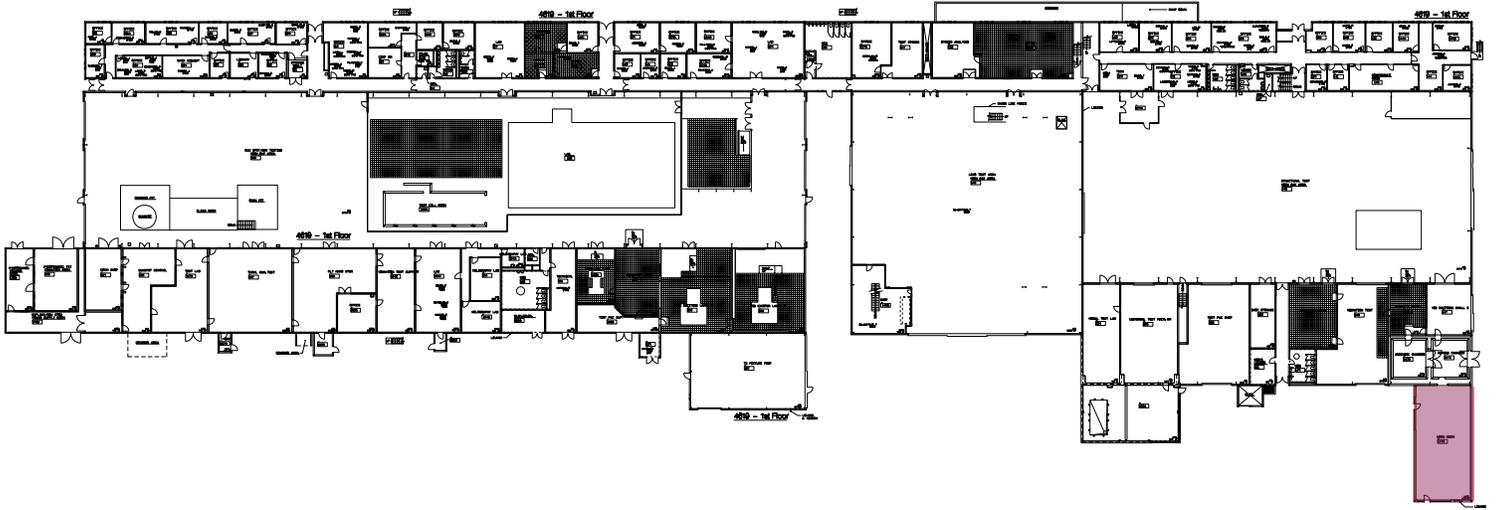
HVAC Duct Insulation with Black Mastic



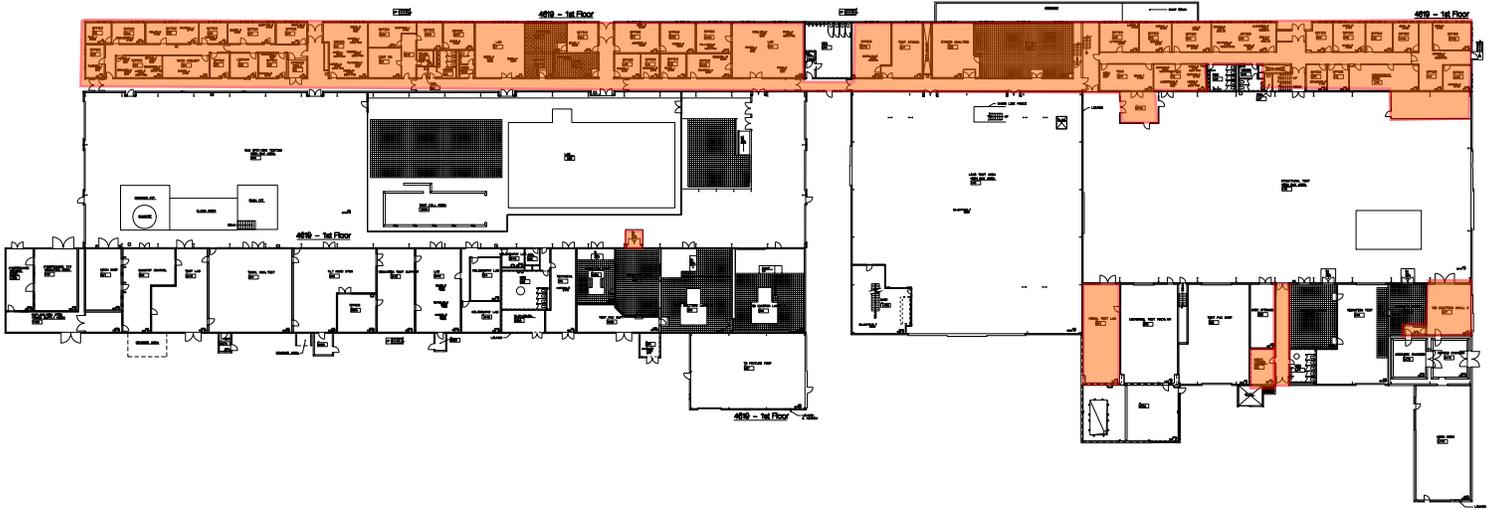
Pipe Insulation with Black Mastic and All Hard Elbow and Fitting Insulations



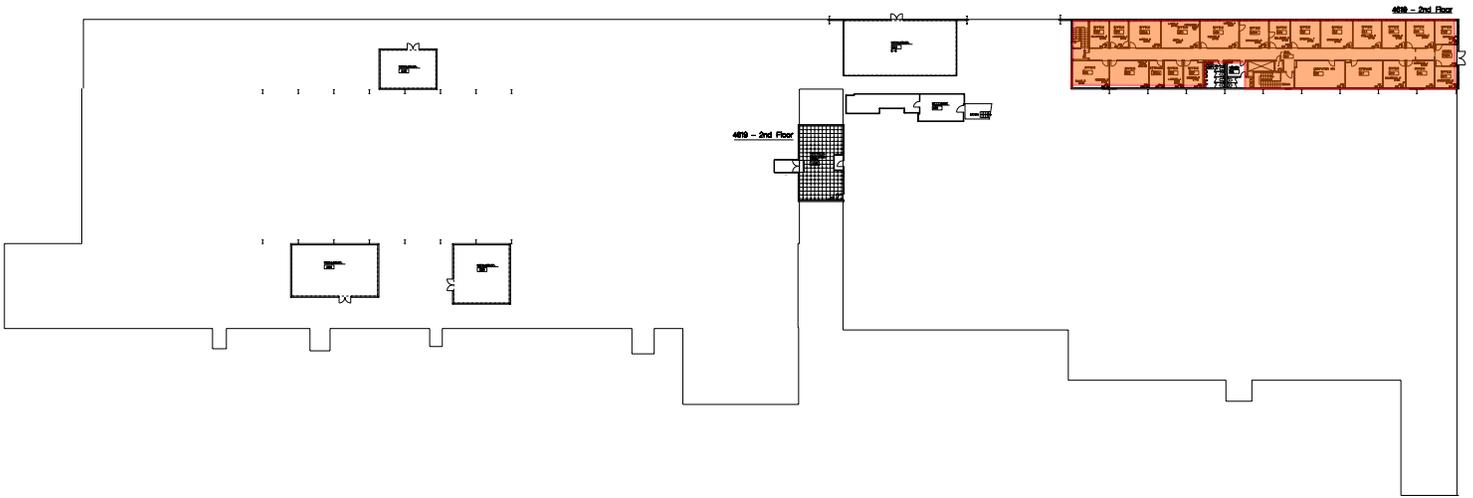
Pipe Insulation with Black Mastic and All Hard Elbow and Fitting Insulations



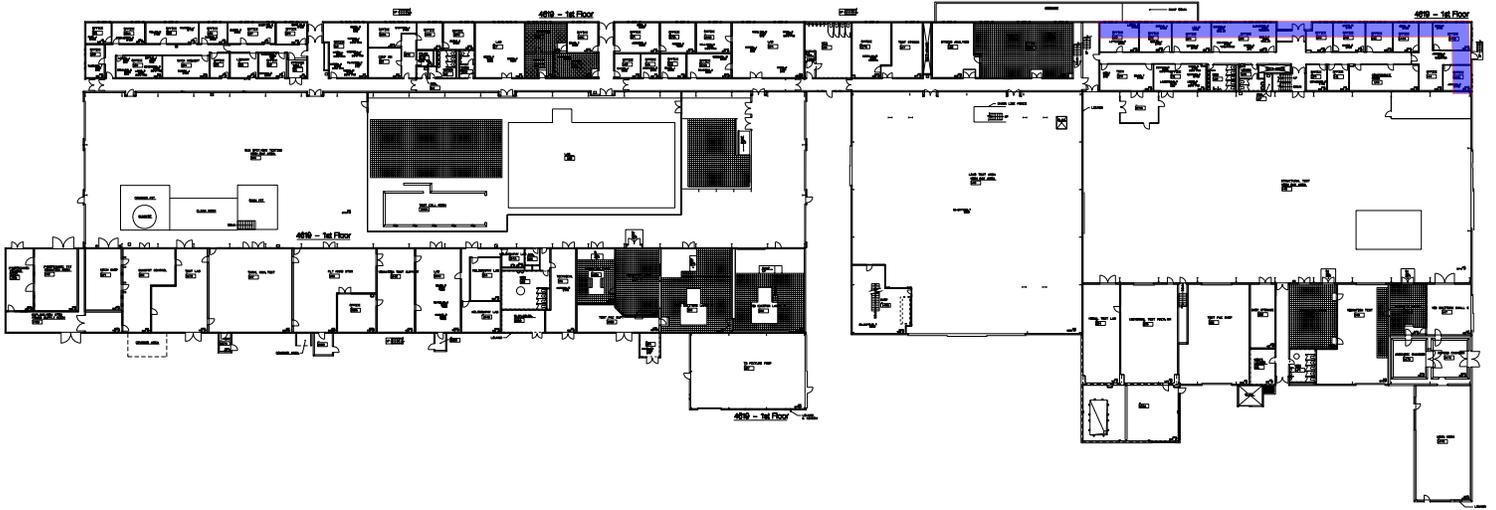
2' X 4' Ceiling Tile with 5 Dot Pattern



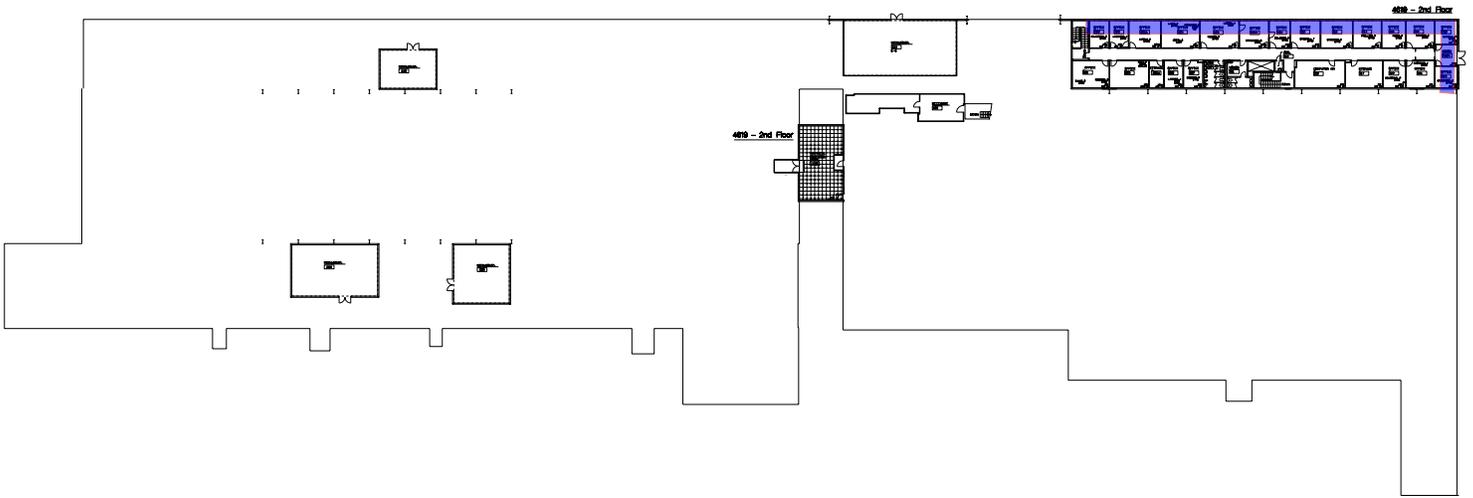
All 9" X 9" and 12" X 12" Floortiles and Associated Black Mastic; and All Black Mastic under carpet



All 9" X 9" and 12" X 12" Floortiles and Associated Black Mastic



Black Mastic on CMU Walls



Black Mastic on CMU Walls

Appendix D

Photographs



PHOTO 1. Pipe Insulation and hard elbows



PHOTO 2. Hard elbow insulations



PHOTO 3. Pipe insulation with white mastic



PHOTO 4. Hard elbow and fitting insulations



PHOTO 5. Pipe insulations with gray mastic



PHOTO 6. 2' X 4' Ceiling tile with large fissures





PHOTO 7. Brown cove base



PHOTO 8. Stair Tread



PHOTO 9. Blue Carpet



PHOTO 10. 9" X 9" green with white and blue speckles floor tile



PHOTO 11. 12" X 12" olive with white speckles floor tile



PHOTO 12. Non skid carpet





PHOTO 13. 9" X 9" light gray with gray and white floor tile



PHOTO 14. 9" X 9" tan with maroon and white streaks floor tile



PHOTO 15. Green indoor outdoor carpet



PHOTO 16. Green mastic on HVAC ducts



PHOTO 17. Non skid floor strips



PHOTO 18. Wall panels



Appendix E

License and Certifications

THE UNIVERSITY OF
ALABAMA
COLLEGE OF CONTINUING STUDIES

Certifies that

William F. Ystueta

3795 Gordon Terry Parkway
Trinity, AL 35673-6116

*has attended and satisfactorily passed an examination
for the*

AHERA Inspector Update Course

May 15, 2008

in

Tuscaloosa, Alabama

*under the AHERA Model Accreditation Plan as required by EPA
to obtain this certificate numbered*

08-184-23

This certificate of training expires on

May 14, 2009

Michael E. Hammon

Principal Instructor

George P. Hodgson

Program Director

William H. Weaver

Director, Environmental & Industrial Programs

Carolyn C. Dale

Dean, College of Continuing Studies



The University of Alabama, College of Continuing Studies, Division of Environmental & Industrial Programs
Box 870388, Tuscaloosa, AL 35487-0388

Phone: 205-348-3005 or TOLL FREE 1-877-508-7246 FAX: 205-348-3049

safe state

THE UNIVERSITY OF ALABAMA

has examined the documentation of asbestos training and qualifications of the person named below and confers this

Certificate of Accreditation

For the Asbestos Contractor Discipline

INSPECTOR

William F. Ystueta

Alabama Accreditation Number

AIN0508Y6144

Certificate Expiration Date

May 15, 2009

This certificate has been issued pursuant to the authority granted to the University of Alabama Safe-State Program by the Alabama Asbestos Contractor Accreditation Act, Alabama Act No. 89-517, May, 1989 and Alabama Act No. 97-626, May, 1997.

William H. Wilkins

Director, Safe State Program

John P. Fico

Assistant Director
for Environmental Programs

safe  state

THE UNIVERSITY OF ALABAMA

has examined the documentation of asbestos training and qualifications of the person named below and confers this

Certificate of Accreditation

For the Asbestos Contractor Discipline

INSPECTOR/MANAGEMENT PLANNER

Roy J. Smith

Alabama Accreditation Number

APL0408S7033

Certificate Expiration Date

April 3, 2009

This certificate has been issued pursuant to the authority granted to the University of Alabama Safe-State Program by the Alabama Asbestos Contractor Accreditation Act, Alabama Act No. 89-517, May, 1989 and Alabama Act No. 97-626, May, 1997.

William H. Weems

Director, Safe State Program

John B. Biko

Assistant Director
for Environmental Programs



Certificate # 7ME04030812AIR0001

This is to certify that

Roy Jeffrey Smith

*has on 04/03/2008, in Lawrence, KS
completed the requirements for asbestos accreditation under Section 206 of TSCA Title II, 15 U.S.C. 2646*

AHERA Asbestos Building Inspector Refresher Course

*as approved by the U.S.E.P.A. under 40 C.F.R. 763 (AHERA)
on 04/03/2008 - 04/03/2008 and passed the associated examination on 04/03/2008
with a score of 70% or better*



Training Location:
2200 W. 25th St.
Lawrence, KS 66047

Accreditation Expires 4/3/09

Dea C. Althage
Instructor
Deon Althage

Thomas Bradford Mayhew
President
Thomas Bradford Mayhew

META - P.O. Box 786 - Lawrence KS 66044 - 800-444-6382



Certificate # 7ME04030805AMPR001

This is to certify that

Roy Jeffrey Smith

*has on 04/03/2008, in Lawrence, KS
completed the requirements for asbestos accreditation under Section 206 of TSCA Title II, 15 U.S.C. 2646*

AHERA Asbestos Management Planner Refresher Course

*as approved by the U.S.E.P.A. under 40 C.F.R. 763 (AHERA)
on 04/03/2008 - 04/03/2008 and passed the associated examination on 04/03/2008
with a score of 70% or better*



Training Location:
2200 W. 25th St.
Lawrence, KS 66047

Accreditation Expires: 4/3/09

META - P.O. Box 786 - Lawrence KS 66044 - 800-444-6382


Instructor
Dean Althage


President
Thomas Bradford Mayhew

safe state

THE UNIVERSITY OF ALABAMA

has examined the documentation of asbestos training and qualifications of the person named below and confers this

Certificate of Accreditation

For the Asbestos Contractor Discipline

INSPECTOR/MANAGEMENT PLANNER

Manjunatha Ramasamudra

Alabama Accreditation Number

APL0308R5089

Certificate Expiration Date

March 14, 2009

This certificate has been issued pursuant to the authority granted to the University of Alabama Safe-State Program by the Alabama Asbestos Contractor Accreditation Act, Alabama Act No. 89-517, May, 1989 and Alabama Act No. 97-626, May, 1997.

William H. Wilkins

Director, Safe State Program

John P. Pico

Assistant Director
for Environmental Programs

Asbestos Consulting & Training Systems

38059.5873CERT/BIR

900 N.W. 5TH Avenue, Fort Lauderdale, Florida 33311 (954) 524-7208

This is to Certify that

Manjunatha Ramasamudra

Processed By:



To Authenticate Certificate
www.seagulltraining.com
1-800-966-9933



X X X - X X - 5 0 8 9
1215 Rio Grande Dr. , Allen, TX

has successfully completed an English

Asbestos Building Inspection Refresher

14-Mar-08 TO 14-Mar-08

Individual above has completed the requisite training for accreditation under TSCA Title II

Meets state requirements of 326 IAC (IDEM) and FL49-0001020(CN-0006273).

NDAAC Provider #451 Trainer(s): Azael Carcamo E.

Training Address: 5991 New Peachtree RD Suite 122, Atlanta, GA 30340

Successful course completion based on exam score on: 03/14/08

This Certificate Expires:



14-Mar-09 03 / 14 / 09

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENT OR REPRESENTATIONS (18 U.S.C. 1001 AND 15 U.S.C. 615), I REQUIRE THIS TRAINING COURSE WITH ALL APPLICABLE CONTROLS TO BE COMPLETED IN ACCORDANCE WITH ANY APPLICABLE FEDERAL, STATE OR LOCAL REQUIREMENTS AND RULES.

James F. Stump, Course Sponsor



Certificate Number..... 1 2 9 0 6 2

Course Number GE0810

Asbestos Consulting & Training Systems

38059.5868CERT/MPR

900 N.W. 5TH Avenue, Fort Lauderdale, Florida 33311

(954) 524-7208

This is to Certify that

Manjunatha Ramasamudra

Processed By:

Seagull

To Authenticate Certificate
www.seagulltraining.com
1-800-966-9933



X X X - X X - 5 0 8 9
1215 Rto Grande Dr. , Allen, TX

***has successfully completed an English
Asbestos Management Planner Refresher***

14-Mar-08 TO 14-Mar-08

Individual above has completed the requisite training for accreditation under TSCA Title II

Meets state requirements of 326 IAC (IDEM) and

FL49-0001020/CN-0006275.

NDAAC Provider #451

Trainer(s): Azael Carcamo E.

Training Address: 5991 New Peachtree RD Suite 122, Atlanta, GA 30340

Successful course completion based on exam score on: 03/14/08

This Certificate Expires:



14-Mar-09

03 / 14 / 09

James F. Stump, Course Sponsor

Certificate Number 1 2 9 0 6 1

Course Number GE0810

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENT OR REPRESENTATIONS (18 U.S.C. 1001 AND 15 U.S.C. 615), I REQUIRE THAT ALL TRAINING PROVIDERS WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS BE MEMBERS