

## **APPENDIX A**

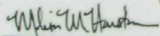
### **ASBESTOS INSPECTOR'S LICENSES**

# Oklahoma Department of Labor

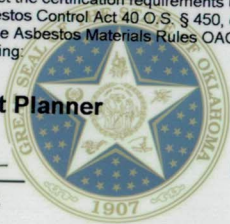
## Asbestos License

This certifies that **Jamie Marshall**  
has successfully met the certification requirements under  
the Oklahoma Asbestos Control Act 40 O.S. § 450, et seq.  
Abatement of Friable Asbestos Materials Rules OAC  
380:50 in the following:

**Management Planner**



Melissa M. Houston,  
Labor Commissioner



License # : 400477

Expires : 03/23/2017

Issued : 05/16/2016

Not intended for identification purposes

## **APPENDIX B**

### **HOMOGENEOUS AREAS TABLE**

**HOMOGENEOUS MATERIALS LIST  
FIRST NATIONAL CENTER  
(WEST BUILDING-1931)  
120 NORTH ROBINSON AVENUE  
OKLAHOMA CITY, OKLAHOMA 73102**

No.	Material Description
1	Carpet Mastic
2	Tar wrap on duct
3	Red floor tile with mastic
4	Floor tile with mastic
5	Floor tile with mastic
6	Black floor tile with mastic
6	Floor tile with mastic
7	Plaster and texture
8	2'x4' Sculpted ceiling tile
9	Tan 12"x12" floor tile with black mastic
10	Gray 9"x9" floor tile with black mastic
11	layered wall system
12	layered wall system
13	2'x2' ceiling tile
14	4'x1' ceiling tile
15	black mastic/carpet glue
16	mirror mastic
17	Fireproofing overspray
18	layered wall system
19	textured 2x2 ceiling tile
20	black mastic/carpet glue
21	beige 12x12 FT with mastic
22	Pink 12x12 FT with mastic
23	beige 12x12 FT with mastic
24	layered wall system
25	layered wall system
26	2'x2' dot ceiling tile
27	layered wall system
28	layered wall system
29	Cove base with yellow glue
30	Yellow 12x12 FT with mastic
31	Green FT with mastic
32	Beige FT with mastic
33	Sink undercoating
34	layered wall system
35	beige floor tile with mastic
36	2'x2' wavy ceiling tile
37	layered wall system
38	layered wall system
39	red floor tile with mastic
40	Beige 12x12 floor tile with mastic
41	black 12x12 floor tile with mastic
42	Pink floor tile with mastic
43	Beige 12x12 floor tile with mastic
44	Beige 12x12 floor tile with mastic

Highlight = Positive for asbestos



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No.	Material Description
45	2'x2' beveled ceiling tile
46	Beige 12x12 floor tile with mastic
47	Beige paper covered 2x4 ceiling tile
48	layered wall system
49	layered wall system
50	Plastic covered 2x4 ceiling tile
51	White marbled floor tile with mastic
52	Pinhole 1x1 ceiling tile
53	Ceiling tile glue dots
54	Drywall above 1x1 ceiling tile
55	Tan 12x12 floor tile with mastic
56	Off white 12x12 FT with mastic
57	Green speckle floor tile with mastic
58	layered wall system
59	2'x4' sculpted ceiling tile
60	layered wall system
61	wavy sculpted 2x4 ceiling tile
62	Black paper ceiling tile
63	layered wall system
64	layered wall system
65	Cement board canter
66	Cement board canter
67	layered wall system
68	Wall texture
69	White vibration dampening cloth
70	Layered wall system
71	Layered wall system
72	Layered wall system
73	Layered wall system
74	Layered wall system
75	White 2'x4' flat pinhole CT
76	layered wall system
77	layered wall system
78	layered wall system
79	Black vibration dampening cloth
80	Black vinyl vibration dampening cloth
81	layered wall system
82	Layered wall system
83	Layered wall system
84	Window Glazing
85	Window Glazing
86	Layered roofing system
87	Layered wall system
88	Layered wall system

Highlight = Positive for asbestos

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No.	Material Description
89	Layered wall system
90	Wall texture on plaster
91	layered wall system
92	layered wall system
93	layered wall system
94	layered wall system
95	layered wall system
96	Layered wall system
97	Layered wall system
98	Layered wall system
99	Layered wall system
100	Layered wall system
101	Layered wall system
102	Layered wall system
103	Layered wall system
104	Layered wall system
105	Layered wall system
106	Popcorn ceiling texture
107	Layered wall system
108	HVAC duct insulation

## **APPENDIX C**

### **ACM SAMPLE SUMMARY SHEET**

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Sample Number	Material Description	Room or Area	Floor	Location	Condition	Friable	Asbestos Type	% Asbestos/Layer
32-B-1-1	Carpet Mastic	Basement	Basement	North	Fair	No	ND	ND
32-B-1-2	Carpet Mastic	N.Bank Vault	Basement	South	Fair	No	ND	ND
32-B-1-3	Carpet Mastic	N.Bank Vault	Basement	East	Fair	No	ND	ND
32-B-2-4	Tar wrap on duct	N.Bank Vault	Basement	Top	Fair	No	ND	ND
32-B-2-5	Tar wrap on duct	N.Bank Vault	Basement	Middle	Fair	No	ND	ND
32-B-2-6	Tar wrap on duct	N.Bank Vault	Basement	Bottom	Fair	No	ND	ND
32-B-3-7	Red floor tile with mastic	NE Vault Room	Basement	East	Fair	No	Chrysotile	Floor Tile = 8% Mastic = 3%
32-B-3-8	Red floor tile with mastic	NE Vault Room	Basement	Middle	Fair	No		PS-NA
32-B-3-9	Red floor tile with mastic	NE Vault Room	Basement	North	Fair	No		PS-NA
32-B-4-10	Floor tile with mastic	NE Vault Door	Basement	East	Fair	No	Chrysotile	Floor Tile = Trace Mastic = 3%
32-B-4-11	Floor tile with mastic	NE Vault Door	Basement	Middle	Fair	No		PS-NA
32-B-4-12	Floor tile with mastic	NE Vault Door	Basement	West	Fair	No		PS-NA
32-B-5-13	Floor tile with mastic	South Vault	Basement	Floor	Poor	No	ND	ND
32-B-5-14	Floor tile with mastic	SE Vault	Basement	Floor	Poor	No	ND	ND
32-B-5-15	Floor tile with mastic	SW Vault	Basement	Floor	Poor	No	ND	ND
32-B-6-16	Black floor tile with mastic	Deposit Box	Basement	Floor	Fair	No	Chrysotile	Floor Tile = 1% Mastic = 3%
32-B-6-17	Black floor tile with mastic	Deposit Box	Basement	Floor	Fair	No		PS-NA
32-B-6-18	Black floor tile with mastic	Deposit Box	Basement	Floor	Fair	No		PS-NA
32-B-6-19	Floor tile with mastic	Deposit Box	Basement	Floor	Good	No	Chrysotile	Floor Tile = Trace Mastic = 2%
32-B-6-20	Floor tile with mastic	Deposit Box	Basement	Floor	Good	No		PS-NA

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32-B-6-21	Floor tile with mastic	Deposit Box	Basement	Floor	Good	No	Chrysotile	PS-NA
32-B-7-22	Plaster and texture	Hallway	Basement	Wall NE of safety deposit box room	Good	No	ND	ND
32-B-8-23	2'x4' Sculpted ceiling tile	Deposit Box Rm.	Basement	Ceiling	Good	No	ND	ND
32-B-9-24	Tan 12"x12" floor tile with black mastic	30	Basement	Floor	Good	No	Chrysotile	Floor Tile = 2% Mastic = 3%
32-B-9-25	Tan 12"x12" floor tile with black mastic	30	Basement	Floor	Good	No		PS-NA
32-B-9-26	Tan 12"x12" floor tile with black mastic	30	Basement	Floor	Good	No		PS-NA
32-B-10-27	Gray 9"x9" floor tile with black mastic	Maint. Office	Basement	Floor	Good	Yes	Chrysotile	Floor Tile = 8% Mastic = Trace
32-B-10-28	Gray 9"x9" floor tile with black mastic	Maint. Office	Basement	Floor	Fair	Yes		PS-NA
32-B-10-29	Gray 9"x9" floor tile with black mastic	Maint. Office	Basement	Floor	Fair	Yes		PS-NA
32-B-11-30	layered wall system	35	Basement	Wall	Fair	Yes	Chrysotile	Joint Compound = 2%
32-B-8-31	2'x4' Sculpted ceiling tile	16	Basement	Ceiling	Fair	Yes	ND	ND
32-B-11-32	layered wall system	16	Basement	Wall	Fair	Yes	Chrysotile	Joint Compound = 2%
32-B-11-33	layered wall system	Elevator 9	Basement	Wall	Fair	Yes	ND	ND
32-B-8-34	2'x4' Sculpted ceiling tile	Elev. Rm.	Basement	Ceiling	Fair	Yes	ND	ND
32-1-12-35	layered wall system	Nancy F. Rm. 9	1	North wall	Fair	Yes	Chrysotile	Joint Compound = Trace
32-1-12-36	layered wall system	Nancy F. Rm. 9	1	NE wall	Fair	Yes		Joint Compound = Trace
32-1-12-37	layered wall system	Nancy F. Rm. 5	1	SW wall	Fair	Yes		Joint Compound = Trace
32-1-13-38	2'x2' ceiling tile	Nancy F. Rm. 1	1	Ceiling	Fair	Yes	ND	ND
32-1-13-39	2'x2' ceiling tile	Nancy F. Rm. 9	1	Ceiling	Fair	Yes	ND	ND
32-1-13-40	2'x2' ceiling tile	Nancy F. Rm. 5	1	Ceiling	Fair	Yes	ND	ND

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32-1-14-41	4'x1' ceiling tile	Nancy F. Rm. 1	1	Ceiling	Fair	Yes	ND	ND
32-1-14-42	4'x1' ceiling tile	Nancy F. Rm. 1	1	Ceiling	Fair	Yes	ND	ND
32-1-14-43	4'x1' ceiling tile	Nancy F. Rm. 1	1	Ceiling	Good	Yes	ND	ND
32-1-15-44	black mastic/carpet glue	Nancy F. Rm. 1	1	Floor	Fair	No	Chrysotile	Black Mastic = 2% Yellow Glue = ND
32-1-15-45	black mastic/carpet glue	Nancy F. Rm. 5	1	Floor	Fair	No		PS-NA
32-1-15-46	black mastic/carpet glue	Nancy F. Rm. 6	1	Floor	Fair	No		PS-NA
32-1-16-47	mirror mastic	Nancy F. Rm. 7	1	North wall	Fair	No	Chrysotile	Mirror Mastic = 8%
32-1-16-48	mirror mastic	Nancy F. Rm. 8	1	SE Wall	Fair	No		PS-NA
32-1-16-49	mirror mastic	Nancy F. Rm. 8	1	SW wall	Fair	No		PS-NA
32-1-17-50	Fireproofing overspray	Nancy F. Rm. 1	1	Ceiling	Fair	Yes	Chrysotile	Fireproofing = 4%
32-1-17-51	Fireproofing overspray	Under Escalator	1	Main beam on ceiling	Fair	Yes		PS-NA
32-1-17-52	Fireproofing overspray	1	1	Above medicine cabinet on ceiling	Fair	Yes		PS-NA
32-1-7-53	Plaster and texture	Wall	1	Behind Laser Therapy-S. Wall	Fair	Yes	ND	ND
32-1-18-54	layered wall system	Laser Therapy 1	1	SW wall	Fair	Yes	ND	ND
32-1-18-55	layered wall system	Laser Therapy 3	1	West wall	Fair	Yes	ND	ND
32-1-18-56	layered wall system	Laser Therapy 4	1	SE Wall	Fair	Yes	ND	ND
32-1-19-57	textured 2x2 ceiling tile	Laser Therapy 1	1	Ceiling	Fair	Yes	ND	ND
32-1-19-58	textured 2x2 ceiling tile	Laser Therapy 2	1	Ceiling	Fair	Yes	ND	ND
32-1-19-59	textured 2x2 ceiling tile	Medicine Cabinet 1	1	Ceiling	Fair	Yes	ND	ND
32-1-20-60	black mastic/carpet glue	Laser Therapy 1	1	Floor	Fair	No	Chrysotile	Black Mastic = 2% Yellow Glue = ND

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32-1-20-61	black mastic/carpet glue	Laser Therapy 4	1	Floor	Fair	No	Chrysotile	PS-NA
32-1-20-62	black mastic/carpet glue	Laser Therapy 4	1	Floor	Fair	No		PS-NA
32-1-21-63	beige 12x12 FT with mastic	Laser Therapy 5	1	Floor	Fair	No	ND	ND
32-1-21-64	beige 12x12 FT with mastic	Laser Therapy 5	1	Floor	Fair	No	ND	ND
32-1-21-65	beige 12x12 FT with mastic	Laser Therapy 5	1	Floor	Fair	No	ND	ND
32-1-22-66	Pink 12x12 FT with mastic	Medicine Cabinet 1	1	Floor	Fair	No	ND	ND
32-1-22-67	Pink 12x12 FT with mastic	Medicine Cabinet 1	1	Floor	Fair	No	ND	ND
32-1-22-68	Pink 12x12 FT with mastic	Medicine Cabinet 1	1	Floor	Fair	No	ND	ND
32-1-23-69	beige 12x12 FT with mastic	Medicine Cabinet 1	1	Floor	Fair	No	ND	ND
32-1-23-70	beige 12x12 FT with mastic	Medicine Cabinet 1	1	Floor	Fair	No	ND	ND
32-1-23-71	beige 12x12 FT with mastic	Medicine Cabinet 1	1	Floor	Fair	No	ND	ND
32-1-24-72	layered wall system	Medicine Cabinet 1	1	West wall	Fair	Yes	ND	ND
32-1-24-73	layered wall system	Medicine Cabinet 1	1	East wall	Fair	Yes	ND	ND
32-1-24-74	layered wall system	Medicine Cabinet 1	1	South wall	Fair	Yes	ND	ND
32-1-25-75	layered wall system	Salon 1	1	East wall	Fair	Yes	ND	ND
32-1-25-76	layered wall system	Salon 1	1	SE wall	Fair	Yes	ND	ND
32-1-25-77	layered wall system	Salon 1	1	West wall	Fair	Yes	ND	ND
32-1-26-78	2'x2' dot ceiling tile	Salon 1	1	Ceiling	Fair	Yes	ND	ND
32-1-26-79	2'x2' dot ceiling tile	Salon 1	1	Ceiling	Fair	Yes	ND	ND
32-1-26-80	2'x2' dot ceiling tile	Salon 1	1	Ceiling	Fair	Yes	ND	ND

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Sample Number	Material Description	Room or Area	Floor	Location	Condition	Friable	Asbestos Type	% Asbestos/Layer
32-1-27-81	layered wall system	Electrical Store RM	1	West wall	Poor	Yes	ND	ND
32-1-27-82	layered wall system	Electrical Store RM	1	North wall	Poor	Yes	ND	ND
32-1-27-83	layered wall system	Electrical Store RM	1	South wall	Poor	Yes	ND	ND
32-1-20-84	black mastic/carpet glue	Electrical Store RM	1	Floor	Poor	No	Chrysotile	Black Mastic = 5% Yellow Glue = ND
32-1-28-85	layered wall system	St. Anth. 1	1	North wall	Poor	Yes	ND	ND
32-1-28-86	layered wall system	St. Anth. 16	1	West wall	Poor	Yes	ND	ND
32-1-28-87	layered wall system	St. Anth. 6A	1	South wall	Poor	Yes	ND	ND
32-1-29-88	Cove base with yellow glue	St. Anth. 2	1	SE wall	Poor	No	ND	ND
32-1-29-89	Cove base with yellow glue	St. Anth. 10	1	East wall	Fair	No	ND	ND
32-1-29-90	Cove base with yellow glue	St. Anth. 14	1	South wall	Fair	No	ND	ND
32-1-30-91	Yellow 12x12 FT with mastic	St. Anth. 5	1	Floor	Fair	No	ND	ND
32-1-31-92	Green FT with mastic	St. Anth. 5	1	Floor	Fair	No	ND	ND
32-1-32-93	Beige FT with mastic	St. Anth. 5	1	Floor	Fair	No	ND	ND
32-1-30-94	Yellow 12x12 FT with mastic	St. Anth. 6	1	Floor	Fair	No	ND	ND
32-1-31-95	Green FT with mastic	St. Anth. 6	1	Floor	Fair	No	ND	ND
32-1-32-96	Beige FT with mastic	St. Anth. 6	1	Floor	Fair	No	ND	ND
32-1-30-97	Yellow 12x12 FT with mastic	St. Anth. 16	1	Floor	Fair	No	ND	ND
32-1-31-98	Green FT with mastic	St. Anth. 5	1	Floor	Fair	No	ND	ND
32-1-32-99	Beige FT with mastic	St. Anth. 5	1	Floor	Fair	No	ND	ND
32-1-33-100	Sink undercoating	St. Anth. 9	1	Under sink basin	Fair	No	ND	ND



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32-1-33-101	Sink undercoating	St. Anth. 10	1	Under sink basin	Fair	No	ND	ND
32-1-33-102	Sink undercoating	St. Anth. 15	1	Under sink basin	Fair	No	ND	ND
32-1-34-103	layered wall system	Workshop	1	North wall	Fair	Yes	ND	ND
32-1-34-104	layered wall system	Workshop	1	South wall	Fair	Yes	ND	ND
32-1-34-105	layered wall system	Workshop	1	West wall	Fair	Yes	ND	ND
32-1-35-106	beige floor tile with mastic	Workshop	1	Floor under carpet	Fair	No	Chrysotile	Floor Tile = ND Mastic = 5%
32-1-35-107	beige floor tile with mastic	Workshop	1	Floor under carpet	Fair	No		PS-NA
32-1-35-108	beige floor tile with mastic	Workshop	1	Floor under carpet	Fair	No		PS-NA
32-1-36-109	2'x2' wavy ceiling tile	Workshop	1	Ceiling	Fair	Yes	ND	ND
32-1-36-110	2'x2' wavy ceiling tile	Workshop	1	Ceiling	Fair	Yes	ND	ND
32-1-36-111	2'x2' wavy ceiling tile	Workshop	1	Ceiling	Fair	Yes	ND	ND
32-1-37-112	layered wall system	OKC Headshot	1	SW wall	Fair	Yes	ND	ND
32-1-37-113	layered wall system	OKC Headshot	1	SE wall	Fair	Yes	ND	ND
32-1-37-114	layered wall system	OKC Headshot	1	NE wall	Fair	Yes	ND	ND
32-1-38-115	layered wall system	Gina Taylor 1	1	NE wall	Fair	Yes	ND	ND
32-1-38-116	layered wall system	Gina Taylor 1	1	NW wall	Fair	Yes	ND	ND
32-1-38-117	layered wall system	Gina Taylor 1	1	SE wall	Fair	Yes	ND	ND
32-1-39-118	red floor tile with mastic	Gina Taylor 2	1	Floor	Fair	No	ND	ND
32-1-39-119	red floor tile with mastic	Gina Taylor 2	1	Floor	Fair	No	ND	ND
32-1-39-120	red floor tile with mastic	Gina Taylor 2	1	Floor	Fair	No	ND	ND

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32-1-40-121	Beige 12x12 floor tile with mastic	Gina Taylor 2	1	Floor	Fair	No	ND	ND
32-1-40-122	Beige 12x12 floor tile with mastic	Gina Taylor 2	1	Floor	Fair	No	ND	ND
32-1-40-123	Beige 12x12 floor tile with mastic	Gina Taylor 2	1	Floor	Fair	No	ND	ND
32-1-41-124	black 12x12 floor tile with mastic	Gina Taylor 2	1	Floor	Fair	No	ND	ND
32-1-41-125	black 12x12 floor tile with mastic	Gina Taylor 2	1	Floor	Fair	No	ND	ND
32-1-41-126	black 12x12 floor tile with mastic	Gina Taylor 2	1	Floor	Fair	No	ND	ND
32-1-42-127	Pink floor tile with mastic	Gina Taylor 2	1	Floor	Fair	No	Chrysotile	Floor Tile = ND Mastic = Trace
32-1-42-128	Pink floor tile with mastic	Gina Taylor 2	1	Floor	Fair	No		Floor Tile = ND Mastic = Trace
32-1-42-129	Pink floor tile with mastic	Gina Taylor 2	1	Floor	Fair	No		Floor Tile = ND Mastic = Trace
32-1-43-130	Beige 12x12 floor tile with mastic	Gina Taylor 2	1	Floor	Fair	No	Chrysotile	Floor Tile = ND Mastic = Trace
32-1-43-131	Beige 12x12 floor tile with mastic	Gina Taylor 2	1	Floor	Fair	No		Floor Tile = ND Mastic = Trace
32-1-43-132	Beige 12x12 floor tile with mastic	Gina Taylor 2	1	Floor	Fair	No		Floor Tile = ND Mastic = Trace
32-1-44-133	Beige 12x12 floor tile with mastic	Gina Taylor 1	1	Floor	Fair	No	ND	ND
32-1-44-134	Beige 12x12 floor tile with mastic	Gina Taylor 1	1	Floor	Fair	No	ND	ND
32-1-44-135	Beige 12x12 floor tile with mastic	Gina Taylor 1	1	Floor	Fair	No	ND	ND
32-1-45-136	2'x2' beveled ceiling tile	SE Corridor	1	Ceiling	Fair	Yes	ND	ND
32-1-45-137	2'x2' beveled ceiling tile	East Corridor	1	Ceiling	Fair	Yes	ND	ND
32-1-45-138	2'x2' beveled ceiling tile	East Corridor	1	Ceiling	Fair	Yes	ND	ND
32-1-46-139	Beige 12x12 floor tile with mastic	SE Corridor	1	Floor	Fair	No	Chrysotile	Floor Tile = ND Mastic = Trace
32-1-46-140	Beige 12x12 floor tile with mastic	SE Corridor	1	Floor	Fair	No		Floor Tile = ND Mastic = Trace

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32-1-46-141	Beige 12x12 floor tile with mastic	SE Corridor	1	Floor	Fair	No	Chrysotile	Floor Tile = ND Mastic = Trace
32-1-47-142	Beige paper covered 2x4 ceiling tile	Corridor	1	Ceiling	Fair	Yes	ND	ND
32-1-47-143	Beige paper covered 2x4 ceiling tile	Corridor	1	Ceiling	Fair	Yes	ND	ND
32-1-47-144	Beige paper covered 2x4 ceiling tile	Corridor	1	Ceiling	Fair	Yes	ND	ND
32-1-48-145	layered wall system	Corridor	1	North wall	Fair	Yes	ND	ND
32-1-48-146	layered wall system	Corridor	1	South wall	Fair	Yes	ND	ND
32-1-48-147	layered wall system	Corridor	1	NW wall	Fair	Yes	ND	ND
32-1-49-148	layered wall system	Café 7	1	South wall	Fair	Yes	ND	ND
32-1-49-149	layered wall system	Café 7	1	SE wall	Fair	Yes	ND	ND
32-1-49-150	layered wall system	Café 7	1	Center wall	Fair	Yes	ND	ND
32-1-50-151	Plastic covered 2x4 ceiling tile	Café 7	1	Ceiling	Fair	Yes	ND	ND
32-1-50-152	Plastic covered 2x4 ceiling tile	Café 7	1	Ceiling	Fair	Yes	ND	ND
32-1-50-153	Plastic covered 2x4 ceiling tile	Café 7	1	Ceiling	Fair	Yes	ND	ND
32-1-51-154	White marbled floor tile with mastic	Café 7	1	Floor	Fair	No	Chrysotile	Floor Tile = ND Mastic = 2%
32-1-51-155	White marbled floor tile with mastic	Café 7	1	Floor	Fair	No		PS-NA
32-1-51-156	White marbled floor tile with mastic	Café 7	1	Floor	Fair	No		PS-NA
32-1-52-157	Pinhole 1x1 ceiling tile	Café 7	1	Ceiling	Fair	Yes	ND	ND
32-1-52-158	Pinhole 1x1 ceiling tile	Café 7	1	Ceiling	Fair	Yes	ND	ND
32-1-52-159	Pinhole 1x1 ceiling tile	Café 7	1	Ceiling	Fair	Yes	ND	ND
32-1-53-160	Ceiling tile glue dots	Café 7	1	Ceiling	Fair	Yes	ND	ND

**ACM SAMPLE SUMMARY SHEET  
FIRST NATIONAL CENTER  
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120 NORTH ROBINSON AVENUE  
OKLAHOMA CITY, OKLAHOMA 73102**

Sample Number	Material Description	Room or Area	Floor	Location	Condition	Friable	Asbestos Type	% Asbestos/Layer
32-1-53-161	Ceiling tile glue dots	Café 7	1	Ceiling	Fair	Yes	ND	ND
32-1-53-162	Ceiling tile glue dots	Café 7	1	Ceiling	Fair	Yes	ND	ND
32-1-54-163	Drywall above 1x1 ceiling tile	Café 7	1	Above drop ceiling	Fair	Yes	ND	ND
32-1-54-164	Drywall above 1x1 ceiling tile	Café 7	1	Above drop ceiling	Fair	Yes	ND	ND
32-1-54-165	Drywall above 1x1 ceiling tile	Café 7	1	Above drop ceiling	Fair	Yes	ND	ND
32-1-55-166	Tan 12x12 floor tile with mastic	N. Hallway	1	Floor	Fair	No	ND	ND
32-1-55-167	Tan 12x12 floor tile with mastic	N. Hallway	1	Floor	Fair	No	ND	ND
32-1-55-168	Tan 12x12 floor tile with mastic	N. Hallway	1	Floor	Fair	No	ND	ND
32-1-56-169	Off white 12x12 FT with mastic	N. Hallway	1	Floor	Fair	No	ND	ND
32-1-56-170	Off white 12x12 FT with mastic	N. Hallway	1	Floor	Fair	No	ND	ND
32-1-56-171	Off white 12x12 FT with mastic	N. Hallway	1	Floor	Fair	No	ND	ND
32-1-57-172	Green speckle floor tile with mastic	N. Hallway	1	Floor	Fair	No	Chrysotile	Floor Tile = 2%
32-1-57-173	Green speckle floor tile with mastic	N. Hallway	1	Floor	Fair	No		PS-NA
32-1-57-174	Green speckle floor tile with mastic	N. Hallway	1	Floor	Fair	No		PS-NA
32-1-58-175	layered wall system	N. Hallway	1	NE wall	Fair	Yes	ND	ND
32-1-58-176	layered wall system	N. Hallway	1	SE wall	Fair	Yes	ND	ND
32-1-58-177	layered wall system	N. Hallway	1	SW wall	Fair	Yes	ND	ND
32-1-59-178	2'x4' sculpted ceiling tile	N. Hallway	1	Ceiling	Fair	Yes	ND	ND
32-1-59-179	2'x4' sculpted ceiling tile	N. Hallway	1	Ceiling	Fair	Yes	ND	ND
32-1-59-180	2'x4' sculpted ceiling tile	N. Hallway	1	Ceiling	Fair	Yes	ND	ND

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Sample Number	Material Description	Room or Area	Floor	Location	Condition	Friable	Asbestos Type	% Asbestos/Layer
32-4-60-181	layered wall system	1	4	SE wall	Fair	Yes	Chrysotile	Joint Compound = 4%
32-4-60-182	layered wall system	1	4	South wall	Fair	Yes		PS-NA
32-4-60-183	layered wall system	1	4	SW wall	Fair	Yes		PS-NA
32-4-61-184	wavy sculpted 2x4 ceiling tile	Outside RM 2	4	Ceiling	Fair	Yes	ND	ND
32-4-61-185	wavy sculpted 2x4 ceiling tile	1	4	Ceiling	Fair	Yes	ND	ND
32-4-61-186	wavy sculpted 2x4 ceiling tile	1	4	Ceiling	Fair	Yes	ND	ND
32-4-62-187	Black paper ceiling tile	4	4	Ceiling	Fair	Yes	ND	ND
32-4-62-188	Black paper ceiling tile	5	4	Ceiling	Fair	Yes	ND	ND
32-4-62-189	Black paper ceiling tile	6	4	Ceiling	Fair	Yes	ND	ND
32-4-63-190	layered wall system	4	4	North wall	Fair	Yes	ND	ND
32-4-63-191	layered wall system	5	4	North wall	Fair	Yes	ND	ND
32-4-63-192	layered wall system	6	4	North wall	Fair	Yes	ND	ND
32-5-64-193	layered wall system	Suite 560-RM 1	5	West wall	Fair	Yes	Chrysotile	Joint Compound = 2%
32-5-64-194	layered wall system	Suite 560-RM 6A	5	SE wall	Fair	Yes		PS-NA
32-5-64-195	layered wall system	Suite 560-RM 8	5	North wall	Fair	Yes		PS-NA
32-5-65-196	Cement board canter	Suite 560-RM 6A	5	South wall	Fair	No	Chrysotile	Cement Board = 20%
32-5-66-197	Cement board canter	Suite 560-RM 5	5	South wall	Fair	No	Chrysotile	Cement Board = 15%
32-5-67-198	layered wall system	Suite 530-RM 1	5	NW wall	Fair	No	ND	ND
32-5-67-199	layered wall system	Suite 530-RM 2	5	NE wall	Fair	No	ND	ND
32-5-67-200	layered wall system	Suite 530-RM 4	5	North wall	Fair	No	ND	ND

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FIRST NATIONAL CENTER  
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Sample Number	Material Description	Room or Area	Floor	Location	Condition	Friable	Asbestos Type	% Asbestos/Layer
32-5-68-201	Wall texture	Suite 100	5	North wall	Fair	Yes	ND	ND
32-5-68-202	Wall texture	Suite 100	5	SE wall	Fair	Yes	ND	ND
32-5-68-203	Wall texture	Suite 100	5	South wall	Fair	Yes	ND	ND
32-5-69-204	White vibration dampening cloth	Mech. RM	5	South work space air temp	Fair	Yes	ND	ND
32-5-69-205	White vibration dampening cloth	Mech. RM	5	Main bank	Fair	Yes	ND	ND
32-5-69-206	White vibration dampening cloth	Mech. RM	5	South work space return	Fair	Yes	ND	ND
32-2-70-207	Layered wall system	Skywalk Ramp	2	NW corner	Fair	Yes	ND	ND
32-2-70-208	Layered wall system	Skywalk Ramp	2	West ceiling	Fair	Yes	ND	ND
32-2-70-209	Layered wall system	Skywalk Ramp	2	NE corner	Fair	Yes	ND	ND
32-2-71-210	Layered wall system	RM 10	2	NE corner	Fair	Yes	ND	ND
32-2-71-211	Layered wall system	RM 7	2	NW corner	Fair	Yes	ND	ND
32-2-71-212	Layered wall system	RM 19	2	SW corner	Fair	Yes	ND	ND
32-3-72-213	Layered wall system	RM 12	3	SE closet	Fair	Yes	ND	ND
32-3-72-214	Layered wall system	RM 10	3	East wall	Fair	Yes	ND	ND
32-3-72-215	Layered wall system	RM 12	3	SW corner	Fair	Yes	ND	ND
32-6-73-216	Layered wall system	RM 179	6	NW corner	Fair	Yes	ND	ND
32-6-73-217	Layered wall system	RM 203	6	SE closet	Fair	Yes	ND	ND
32-6-73-218	Layered wall system	RM 109	6	NW corner	Fair	Yes	ND	ND
32-7-74-219	Layered wall system	Main St. Skybridge	7	NE corner	Fair	Yes	ND	ND
32-7-74-220	Layered wall system	NW Conf. Rm	7	Center wall	Fair	Yes	ND	ND

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Sample Number	Material Description	Room or Area	Floor	Location	Condition	Friable	Asbestos Type	% Asbestos/Layer
32-7-74-221	Layered wall system	NW Conf. Rm	7	North wall	Fair	Yes	ND	ND
32-7-75-222	White 2'x4' flat pinhole CT	RM 703	7	Ceiling	Fair	Yes	ND	ND
32-7-75-223	White 2'x4' flat pinhole CT	RM 703	7	Ceiling	Fair	Yes	ND	ND
32-7-75-224	White 2'x4' flat pinhole CT	RM 703	7	Ceiling	Fair	Yes	ND	ND
32-8-76-225	layered wall system	South Hallway	8	South wall	Fair	Yes	ND	ND
32-8-76-226	layered wall system	West Hallway	8	East wall	Fair	Yes	ND	ND
32-8-76-227	layered wall system	Suite 850	8	Kitchen North Wall	Fair	Yes	ND	ND
32-9-77-228	layered wall system	RM 1	9	South wall	Fair	Yes	ND	ND
32-9-77-229	layered wall system	RM 4	9	East wall	Fair	Yes	ND	ND
32-9-77-230	layered wall system	RM 20	9	NE corner	Fair	Yes	ND	ND
32-10-78-231	layered wall system	RM 3	10	South wall	Fair	Yes	ND	ND
32-10-78-232	layered wall system	RM 40	10	West wall	Fair	Yes	ND	ND
32-10-78-233	layered wall system	Outside RM 25	10	South wall	Fair	Yes	ND	ND
32-10-79-234	Black vibration dampening cloth	Mech. RM	10	South damper	Fair	No	ND	ND
32-10-79-235	Black vibration dampening cloth	Mech. RM	10	South damper	Fair	No	ND	ND
32-10-79-236	Black vibration dampening cloth	Mech. RM	10	South damper	Fair	No	ND	ND
32-10-80-237	Black vinyl vibration dampening cloth	Mech. RM	10	North damper	Fair	No	ND	ND
32-10-80-238	Black vinyl vibration dampening cloth	Mech. RM	10	North damper	Fair	No	ND	ND
32-10-80-239	Black vinyl vibration dampening cloth	Mech. RM	10	North damper	Fair	No	ND	ND
32-12-81-340	layered wall system	RM 1237	12	NE corner	Fair	Yes	Chrysotile	Joint Compound = Trace

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Sample Number	Material Description	Room or Area	Floor	Location	Condition	Friable	Asbestos Type	% Asbestos/Layer
32-12-81-341	layered wall system	OAC RM 1	12	NE corner	Fair	Yes	Chrysotile	Joint Compound = Trace
32-12-81-342	layered wall system	RM 1200	12	SE corner	Fair	Yes		Joint Compound = Trace
32-12-33-343	Sink undercoating	RM 1200	12	Under sink basin	Fair	No	Chrysotile	Sink Undercoating = 3%
32-13-82-344	Layered wall system	RM 1362	13	SE corner	Fair	Yes	Chrysotile	Joint Compound = Trace
32-13-82-345	Layered wall system	RM 1314	13	West corner	Fair	Yes		Joint Compound = Trace
32-13-82-346	Layered wall system	RM 1301	13	North wall	Fair	Yes		Joint Compound = Trace
32-14-83-346	Layered wall system	Suite 420	14	NW wall	Fair	Yes	ND	ND
32-14-83-347	Layered wall system	Suite 1402	14	RM 10A-SE corner	Fair	Yes	ND	ND
32-14-83-348	Layered wall system	Suite 1408	14	RM 19-SW corner	Fair	Yes	ND	ND
32-14-84-349	Window Glazing	Suite 420	14	RM 1-South window	Fair	No	ND	ND
32-14-85-350	Window Glazing	RM 1412	14	East window	Fair	No	ND	ND
32-14-86-351	Layered roofing system	Roof	14	East roof	Fair	Yes	ND	ND
32-14-86-352	Layered roofing system	Roof	14	East roof	Fair	Yes	ND	ND
32-14-86-353	Layered roofing system	Roof	14	East roof	Fair	Yes	ND	ND
32-15-87-354	Layered wall system	RM 1518A	15	NW corner	Fair	Yes	ND	ND
32-15-87-355	Layered wall system	RM 1501B	15	West wall	Fair	Yes	ND	ND
32-15-87-356	Layered wall system	RM 1506	15	East wall	Fair	Yes	Chrysotile	Joint Compound = Trace
32-16-88-357	Layered wall system	RM 1615D	16	West wall	Fair	Yes	ND	ND
32-16-88-358	Layered wall system	RM 1615A	16	SE wall	Fair	Yes	ND	ND
32-16-88-359	Layered wall system	RM 1600	16	West wall	Fair	Yes	ND	ND
32-17-89-360	Layered wall system	RM 1713	17	South wall	Fair	Yes	ND	ND

Acronyms: ND = Asbestos Not Detected PS-NA = Positive Stop-Not Analyzed  
Highlight = Positive for asbestos



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Sample Number	Material Description	Room or Area	Floor	Location	Condition	Friable	Asbestos Type	% Asbestos/Layer
32-17-89-361	Layered wall system	RM 1705	17	East wall	Fair	Yes	ND	ND
32-17-89-362	Layered wall system	RM 1713	17	West wall	Fair	Yes	ND	ND
32-17-90-362	Wall texture on plaster	RM 1713D	17	North wall	Fair	Yes	Chrysotile	Joint Compound = Trace
32-17-90-363	Wall texture on plaster	RM 1713D	17	East wall	Fair	Yes		Joint Compound = Trace
32-17-90-364	Wall texture on plaster	RM 1713D	17	South wall	Fair	Yes		Joint Compound = Trace
32-17-84-365	Window Glazing	RM 1713D	17	North window	Fair	No	ND	ND
32-17-85-366	Window Glazing	Mech. RM	17	East window	Fair	No	ND	ND
32-18-91-367	layered wall system	RM 1822A	18	West wall	Fair	Yes	Chrysotile	Joint Compound = Trace
32-18-91-368	layered wall system	RM 1822B	18	South wall	Fair	Yes	ND	ND
32-18-91-369	layered wall system	RM 1822B	18	East wall	Fair	Yes	ND	ND
32-19-92-370	layered wall system	RM 1900P	19	South corner	Fair	Yes	ND	ND
32-19-92-371	layered wall system	RM 1900Q	19	SW corner	Fair	Yes	ND	ND
32-19-92-372	layered wall system	RM 1900A	19	East wall	Fair	Yes	ND	ND
32-19-84-373	Window Glazing	RM 1900G	19	West window	Fair	No	ND	ND
32-20-93-374	layered wall system	RM 8	20	SW corner	Fair	Yes	ND	ND
32-20-93-375	layered wall system	RM 37	20	SE Corner	Fair	Yes	ND	ND
32-20-93-376	layered wall system	RM 28	20	NW Corner	Fair	Yes	ND	ND
32-20-85-377	Window Glazing	RM 28	20	East window	Fair	No	ND	ND
32-20-2-378	Tar wrap on duct	RM 11	20	West closet	Fair	No	ND	ND
32-21-94-379	layered wall system	RM 2100A	21	South wall	Fair	Yes	ND	ND

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Sample Number	Material Description	Room or Area	Floor	Location	Condition	Friable	Asbestos Type	% Asbestos/Layer
32-21-94-380	layered wall system	RM 2100C	21	West wall	Fair	Yes	ND	ND
32-21-94-381	layered wall system	RM 2110	21	NW corner	Fair	Yes	ND	ND
32-22-95-382	layered wall system	RM 2220A	22	NW corner	Fair	Yes	ND	ND
32-22-95-383	layered wall system	RM 2205B	22	SE corner	Fair	Yes	ND	ND
32-22-95-384	layered wall system	RM2203	22	East corner	Fair	Yes	ND	ND
32-23-96-385	Layered wall system	N2300A	23	NW corner	Fair	Yes	ND	ND
32-23-96-386	Layered wall system	W2300L	23	NE corner	Fair	Yes	ND	ND
32-23-96-387	Layered wall system	W2300A	23	Hallway center west wall	Fair	Yes	ND	ND
32-24-97-388	Layered wall system	2400A	24	SE corner	Fair	Yes	ND	ND
32-24-97-389	Layered wall system	2400A	24	NW corner	Fair	Yes	ND	ND
32-24-97-390	Layered wall system	2400Q	24	SE corner	Fair	Yes	ND	ND
32-25-98-391	Layered wall system	2500L	25	NW corner	Fair	Yes	ND	ND
32-25-98-392	Layered wall system	2500D	25	SE corner	Fair	Yes	ND	ND
32-25-98-393	Layered wall system	2520A	25	SW corner	Fair	Yes	ND	ND
32-26-99-394	Layered wall system	2601J	26	NW corner	Fair	Yes	ND	ND
32-26-99-395	Layered wall system	2614A	26	SW corner	Fair	Yes	ND	ND
32-26-99-397	Layered wall system	2600D	26	NW corner	Fair	Yes	ND	ND
32-27-100-398	Layered wall system	2720A	27	NW closet corner	Fair	Yes	Chrysotile	Joint Compound = Trace
32-27-100-399	Layered wall system	2720L	27	NE corner	Fair	Yes	ND	ND
32-27-100-400	Layered wall system	2725A	27	NE corner	Fair	Yes	ND	ND

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Sample Number	Material Description	Room or Area	Floor	Location	Condition	Friable	Asbestos Type	% Asbestos/Layer
32-28-101-401	Layered wall system	2800A	28	South center wall	Fair	Yes	ND	ND
32-28-101-402	Layered wall system	2801	28	South wall	Fair	Yes	ND	ND
32-28-101-403	Layered wall system	2800C	28	South wall	Fair	Yes	ND	ND
32-29-102-404	Layered wall system	2900M	29	West wall	Fair	Yes	ND	ND
32-29-102-405	Layered wall system	2900L	29	SE corner	Fair	Yes	ND	ND
32-29-102-406	Layered wall system	2900B	29	SE corner	Fair	Yes	ND	ND
32-30-103-407	Layered wall system	3000B	30	South wall	Fair	Yes	Chrysotile	Joint Compound = Trace
32-30-103-408	Layered wall system	3000A	30	North wall	Fair	Yes	ND	ND
32-30-103-409	Layered wall system	3000A	30	East wall	Fair	Yes	ND	ND
32-31-104-410	Layered wall system	3100B	31	NW corner	Fair	Yes	ND	ND
32-31-104-411	Layered wall system	3100A	31	East wall	Fair	Yes	ND	ND
32-31-104-412	Layered wall system	3100A	31	NW corner-Elev. Lobby	Fair	Yes	ND	ND
32-32-105-413	Layered wall system	3200A	32	SE wall	Fair	Yes	ND	ND
32-32-105-414	Layered wall system	3200A	32	SW wall	Fair	Yes	ND	ND
32-32-105-415	Layered wall system	3200A	32	North wall	Fair	Yes	ND	ND
32-31-106-416	Popcorn ceiling texture	3100A	31	NE ceiling	Fair	Yes	ND	ND
32-31-106-417	Popcorn ceiling texture	3100B	31	Center ceiling	Fair	Yes	Chrysotile	Popcorn Texture = 5%
32-31-106-418	Popcorn ceiling texture	3100A	31	Center ceiling	Fair	Yes	ND	ND
32-11-107-419	Layered wall system	1102	11	SW corner	Fair	Yes	ND	ND
32-11-107-420	Layered wall system	North Suite	11	South hallway	Fair	Yes	ND	ND

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Sample Number	Material Description	Room or Area	Floor	Location	Condition	Friable	Asbestos Type	% Asbestos/Layer
32-11-107-421	Layered wall system	North Office	11	North wall	Fair	Yes	ND	ND
32-4-108-422	HVAC duct insulation	Lobby Plenum	4	Above 2nd floor lobby plaster ceiling	Poor	Yes	ND	ND

## **APPENDIX D**

### **LABORATORY PLM ANALYTICAL DATA**



**River North Environmental Testing, Inc.**

3650 Chestnut Place  
Denver, CO 80216  
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11/16/2016

Family Environmental, K.C.  
600 East 8th Street, Suite B  
Kansas City, MO 64106

Re: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73102 (1932-West Building)  
PLM16-518

Mr. Dustman,

Attached are the results of Polarized Light Microscopic (PLM) analysis for asbestos contained in the bulk sample materials submitted to this facility on 11/17/2016

Bulk samples are analyzed in accordance with USEPA test method EPA/600/M4-82-020 and EPA/600/R-93/116, which requires that distinctly different materials or layers present within a sample be analyzed and reported separately. (For measurement uncertainty, refer to table 2.1 in EPA/600/R-93/116 method.) Sometimes it is not possible to completely separate thin or strongly adhering layers, such as paint or adhesive, and a combined result is given. For some complex materials, such as drywall/tape/mud joints, a composite or overall asbestos content may be reported in addition to individual layer results. RNET, Inc. is currently accredited for bulk asbestos analysis by the National Voluntary Laboratory Accreditation Program (NVLAP) of the National Institute of Standards and Technology (NIST). Our NVLAP laboratory code number is 200448-0.

Due to the limitations of the EPA 600 Method, nonfriable organically bound materials (NOBs) such as floor tiles can be difficult to analyze via PLM. EPA recommends that all NOBs reported as non-detect by PLM analysis be further analyzed by Transmission Electron Microscopy for more definitive results. Please note that the PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation.

The analytical results provided in this report apply only to the samples submitted to the laboratory. This report is confidential. Details of this report will not be discussed with any person or agency not associated with you or your organization. This report must be reproduced in its entirety and shall not be copied in part or used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. Samples will be held for a minimum of sixty days unless longer storage is requested. If you have any questions regarding the content of this report please call RNET, Inc. at 303-296-6022.

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## REPORT OF TEST RESULTS

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services

**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-01 32-B-1-1	Mastic, Brown, Homogeneous, Resinous	LAYER 1 100%	None Detected		Other Non-Fibrous	100%
PLM16-518-02 32-B-1-2	Mastic, Brown, Homogeneous, Resinous	LAYER 1 100%	None Detected		Other Non-Fibrous	100%
PLM16-518-03 32-B-1-3	Mastic, Brown, Homogeneous, Resinous	LAYER 1 100%	None Detected		Other Non-Fibrous	100%
PLM16-518-04 32-B-2-4	Tar Wrap, Black, Homogeneous, Resinous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	5% 95%
PLM16-518-05 32-B-2-5	Tar Wrap, Black, Homogeneous, Resinous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	5% 95%
PLM16-518-06 32-B-2-6	Tar Wrap, Black, Homogeneous, Resinous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	5% 95%
PLM16-518-07 32-B-3-7	LAYER 1 Mastic, Black, Homogeneous, Resinous	LAYER 1 5%	Chrysotile	3%	Other Non-Fibrous Material	97%
	LAYER 2 Floor Tile, Red, Homogeneous, Hard	LAYER 2 95%	Chrysotile	8%	Other Non-Fibrous	92%
PLM16-518-08 32-B-3-8	Not Analyzed-First Positive Stop					
PLM16-518-09 32-B-3-9	Not Analyzed-First Positive Stop					
PLM16-518-10 32-B-4-10	LAYER 1 Mastic, Black, Homogeneous, Resinous	LAYER 1 5%	Chrysotile	3%	Other Non-Fibrous Material	97%
	LAYER 2 Floor Tile, Gray, Homogeneous, Hard	LAYER 2 95%	Chrysotile	Trace	Other Non-Fibrous Material	100%

**River North Environmental Testing, Inc.**3650 Chestnut Place  
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Fax: 303-292-1451  
info@metesting.com**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-11 32-B-4-11	Not Analyzed-First Positive Stop					
PLM16-518-12 32-B-4-12	Not Analyzed-First Positive Stop					
PLM16-518-13 32-B-5-13	LAYER 1 Mastic, Orange, Homogeneous, Resinous	LAYER 1 40%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Gray, Homogeneous, Hard	LAYER 2 60%	None Detected		Cellulose Fiber Other Non-Fibrous Material	5% 95%
PLM16-518-14 32-B-5-14	LAYER 1 Fibrous Material with Mastic, Orange and Off White, Homogeneous, Resinous/Fibrous	LAYER 1 40%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Floor Tile, Gray, Homogeneous, Hard	LAYER 2 60%	None Detected		Cellulose Fiber Other Non-Fibrous Material	5% 95%
PLM16-518-15 32-B-5-15	LAYER 1 Mastic, Orange, Homogeneous, Resinous	LAYER 1 40%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Gray, Homogeneous, Hard	LAYER 2 60%	None Detected		Cellulose Fiber Other Non-Fibrous Material	5% 95%
PLM16-518-16 32-B-6-16	LAYER 1 Mastic, Black, Homogeneous, Resinous	LAYER 1 10%	Chrysotile	3%	Other Non-Fibrous Material	97%
	LAYER 2 Floor Tile, Black, Homogeneous, Hard	LAYER 2 80%	Chrysotile	1%	Other Non-Fibrous Material	99%
	LAYER 3 Mastic, Black, Homogeneous, Resinous	LAYER 3 10%	Chrysotile	3%	Other Non-Fibrous Material	97%
PLM16-518-17 32-B-6-17	Not Analyzed-First Positive Stop					



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PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-18 32-B-6-18	Not Analyzed-First Positive Stop					
PLM16-518-19 32-B-6-19	LAYER 1 Mastic, Black, Homogeneous, Resinous	LAYER 1 2%	Chrysotile	2%	Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Tan, Homogeneous, Hard	LAYER 2 96%	Chrysotile	Trace	Other Non-Fibrous	100%
	LAYER 3 Mastic, Yellow, Homogeneous, Resinous	LAYER 3 2%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-20 32-B-6-20	Not Analyzed-First Positive Stop					
PLM16-518-21 32-B-6-21	Not Analyzed-First Positive Stop					
PLM16-518-22 32-B-7-22	LAYER 1 Plaster, Gray, Homogeneous, Fine Grained	LAYER 1 95%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Plaster, Brown, Homogeneous, Coarse Grained	LAYER 2 5%	None Detected		Hair Other Non-Fibrous Material	1% 99%
PLM16-518-23 32-B-8-23	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	60% 25% 15%
PLM16-518-24 32-B-9-24	LAYER 1 Mastic, Black, Homogeneous, Resinous	LAYER 1 10%	Chrysotile	3%	Other Non-Fibrous Material	97%
	LAYER 2 Floor Tile, Tan, Homogeneous, Hard	LAYER 2 90%	Chrysotile	2%	Other Non-Fibrous	98%
PLM16-518-25 32-B-9-25	Not Analyzed-First Positive Stop					
PLM16-518-26 32-B-9-26	Not Analyzed-First Positive Stop					

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PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-27 32-B-10-27	LAYER 1 Mastic, Black, Homogeneous, Resinous	LAYER 1 5%	Chrysotile	Trace	Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Gray, Homogeneous, Hard	LAYER 2 95%	Chrysotile	8%	Other Non-Fibrous Material	92%
PLM16-518-28 32-B-10-28	Not Analyzed-First Positive Stop					
PLM16-518-29 32-B-10-29	Not Analyzed-First Positive Stop					
PLM16-518-30 32-B-11-30	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 50%	None Detected		Cellulose Fiber Other Non-Fibrous Material	15% 85%
	LAYER 2 Mud with Paint, White and Green, Homogeneous, Fine Grained	LAYER 2 50%	Chrysotile	2%	Other Non-Fibrous Material	98%
PLM16-518-31 32-B-8-31	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	60% 25% 15%
PLM16-518-32 32-B-11-32	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected		Cellulose Fiber Other Non-Fibrous Material	15% 85%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	Chrysotile	2%	Other Non-Fibrous Material	98%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 10%	Chrysotile	2%	Other Non-Fibrous Material	98%
PLM16-518-33 32-B-11-33	Not Analyzed-First Positive Stop					



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## REPORT OF TEST RESULTS

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services

**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-34 32-B-8-34	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	60% 25% 15%
PLM16-518-35 32-1-12-35	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 50%	None Detected		Cellulose Fiber Other Non-Fibrous Material	15% 85%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 20%	Chrysotile	Trace	Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 20%	Chrysotile	Trace	Other Non-Fibrous Material	100%
PLM16-518-36 32-1-12-36	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 50%	None Detected		Cellulose Fiber Other Non-Fibrous Material	15% 85%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 20%	Chrysotile	Trace	Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 20%	Chrysotile	Trace	Other Non-Fibrous Material	100%

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PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-37 32-1-12-37	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 50%	None Detected		Cellulose Fiber Other Non-Fibrous Material	15% 85%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 20%	Chrysotile	Trace	Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 20%	Chrysotile	Trace	Other Non-Fibrous Material	100%
PLM16-518-38 32-1-13-38	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	60% 25% 15%
PLM16-518-39 32-1-13-39	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	60% 25% 15%
PLM16-518-40 32-1-13-40	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	60% 25% 15%
PLM16-518-41 32-1-14-41	Ceiling Tile, Gray and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	60% 5% 35%
PLM16-518-42 32-1-14-42	Ceiling Tile, Gray and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	60% 5% 35%

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PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-43 32-1-14-43	Ceiling Tile, Gray and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	60% 5% 35%
PLM16-518-44 32-1-15-44	LAYER 1 Inseparable Mastic and Glue, Black and Yellow, Non-homogeneous, Resinous	LAYER 1 50%	Chrysotile	2%	Other Non-Fibrous Material	98%
	LAYER 2 Carpet, Tan, Non-homogeneous, Fibrous	LAYER 2 50%	None Detected		Synthetic Fiber Other Non-Fibrous Material	98% 2%
PLM16-518-45 32-1-15-45	Not Analyzed-First Positive Stop					
PLM16-518-46 32-1-15-46	Not Analyzed-First Positive Stop					
PLM16-518-47 32-1-16-47	Mastic, Black, Homogeneous, Resinous	LAYER 1 100%	Chrysotile	8%	Other Non-Fibrous	92%
PLM16-518-48 32-1-16-48	Not Analyzed-First Positive Stop					
PLM16-518-49 32-1-16-49	Not Analyzed-First Positive Stop					
PLM16-518-50 32-1-17-50	Fireproofing, Tan, Homogeneous, Fibrous	LAYER 1 100%	Chrysotile	4%	Other Non-Fibrous	96%
PLM16-518-51 32-1-17-51	Not Analyzed-First Positive Stop					
PLM16-518-52 32-1-17-52	Not Analyzed-First Positive Stop					

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-518-53 32-1-7-53	LAYER 1 Plaster, Tan, Homogeneous, Coarse Grained	LAYER 1 90%	None Detected	Hair 1% Other Non-Fibrous Material 99%
	LAYER 2 Skim Coat with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-54 32-1-18-54	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 55%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 15%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 15%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Brown, Homogeneous, Fine Grained	LAYER 4 15%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-55 32-1-18-55	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 55%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 15%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 15%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Brown, Homogeneous, Fine Grained	LAYER 4 15%	None Detected	Other Non-Fibrous Material 100%



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## REPORT OF TEST RESULTS

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services

**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-56 32-1-18-56	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 55%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 15%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 15%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White and Brown, Homogeneous, Fine Grained	LAYER 4 15%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-57 32-1-19-57	LAYER 1 Ceiling Tile with Adhesive, Gray and Yellow, Non-homogeneous, Fibrous/Resinous	LAYER 1 90%	None Detected		Fibrous Glass Cellulose Fiber Other Non-Fibrous Material	70% 20% 10%
	LAYER 2 Foil, Silver, Homogeneous, Metallic	LAYER 2 10%	None Detected		Other Non-Fibrous	100%
PLM16-518-58 32-1-19-58	LAYER 1 Ceiling Tile with Adhesive, Gray and Yellow, Non-homogeneous, Fibrous/Resinous	LAYER 1 90%	None Detected		Fibrous Glass Cellulose Fiber Other Non-Fibrous Material	70% 20% 10%
	LAYER 2 Foil, Silver, Homogeneous, Metallic	LAYER 2 10%	None Detected		Other Non-Fibrous	100%
PLM16-518-59 32-1-19-59	LAYER 1 Ceiling Tile with Adhesive, Gray and Yellow, Non-homogeneous, Fibrous/Resinous	LAYER 1 90%	None Detected		Fibrous Glass Cellulose Fiber Other Non-Fibrous Material	70% 20% 10%
	LAYER 2 Foil, Silver, Homogeneous, Metallic	LAYER 2 10%	None Detected		Other Non-Fibrous	100%
PLM16-518-60 32-1-20-60	Inseparable Mastic and Glue, Black and Yellow, Non-homogeneous, Resinous	LAYER 1 100%	Chrysotile	2%	Other Non-Fibrous Material	98%
PLM16-518-61 32-1-20-61	Not Analyzed-First Positive Stop					



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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-62 32-1-20-62	Not Analyzed-First Positive Stop					
PLM16-518-63 32-1-21-63	LAYER 1 Floor Tile, Black, Homogeneous, Hard	LAYER 1 40%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Adhesive, Yellow, Homogeneous, Resinous	LAYER 2 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Floor Tile, Off White, Homogeneous, Hard	LAYER 3 40%	None Detected		Other Non-Fibrous Material	100%
	LAYER 4 Adhesive, Yellow, Homogeneous, Resinous	LAYER 4 10%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-64 32-1-21-64	LAYER 1 Floor Tile, Black, Homogeneous, Hard	LAYER 1 40%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Adhesive, Yellow, Homogeneous, Resinous	LAYER 2 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Floor Tile, Off White, Homogeneous, Hard	LAYER 3 40%	None Detected		Other Non-Fibrous Material	100%
	LAYER 4 Adhesive, Yellow, Homogeneous, Resinous	LAYER 4 10%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-65 32-1-21-65	LAYER 1 Floor Tile, Black, Homogeneous, Hard	LAYER 1 40%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Adhesive, Yellow, Homogeneous, Resinous	LAYER 2 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Floor Tile, Off White, Homogeneous, Hard	LAYER 3 40%	None Detected		Other Non-Fibrous Material	100%
	LAYER 4 Adhesive, Yellow, Homogeneous, Resinous	LAYER 4 10%	None Detected		Other Non-Fibrous Material	100%



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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-518-66 32-1-22-66	LAYER 1 Mastic and Compound, Yellow, White, and Black, Non-homogeneous, Resinous/Fine Grained	LAYER 1 20%	None Detected	Cellulose Fiber 1% Other Non-Fibrous Material 99%
	LAYER 2 Floor Tile, Pink, Homogeneous, Hard	LAYER 2 80%	None Detected	Other Non-Fibrous 100%
PLM16-518-67 32-1-22-67	LAYER 1 Mastic and Compound, Yellow, White, and Black, Non-homogeneous, Resinous/Fine Grained	LAYER 1 20%	None Detected	Cellulose Fiber 1% Other Non-Fibrous Material 99%
	LAYER 2 Floor Tile, Pink, Homogeneous, Hard	LAYER 2 80%	None Detected	Other Non-Fibrous 100%
PLM16-518-68 32-1-22-68	LAYER 1 Mastic and Compound, Yellow, White, and Black, Non-homogeneous, Resinous/Fine Grained	LAYER 1 20%	None Detected	Cellulose Fiber 1% Other Non-Fibrous Material 99%
	LAYER 2 Floor Tile, Pink, Homogeneous, Hard	LAYER 2 80%	None Detected	Other Non-Fibrous 100%
PLM16-518-69 32-1-23-69	LAYER 1 Mastic, Yellow and Black, Non- homogeneous, Resinous	LAYER 1 5%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Floor Tile, Beige, Homogeneous, Hard	LAYER 2 95%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-70 32-1-23-70	LAYER 1 Mastic, Yellow and Black, Non- homogeneous, Resinous	LAYER 1 5%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Floor Tile, Beige, Homogeneous, Hard	LAYER 2 95%	None Detected	Other Non-Fibrous Material 100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-518-71 32-1-23-71	LAYER 1 Mastic, Yellow and Black, Non-homogeneous, Resinous	LAYER 1 5%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Floor Tile, Beige, Homogeneous, Hard	LAYER 2 95%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-72 32-1-24-72	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 50%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 20%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 20%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-73 32-1-24-73	LAYER 1 Tape, White, Homogeneous, Fibrous	LAYER 1 10%	None Detected	Fibrous Glass 98% Other Non-Fibrous 2%
	LAYER 2 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 2 90%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-74 32-1-24-74	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected	Cellulose Fiber 15% Other Non-Fibrous Material 85%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 20%	None Detected	Other Non-Fibrous Material 100%



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## REPORT OF TEST RESULTS

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services

**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-518-75 32-1-25-75	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 50%	None Detected	Cellulose Fiber 15% Other Non-Fibrous Material 85%
	LAYER 2 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 2 50%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-76 32-1-25-76	LAYER 1 Mud, White, Homogeneous, Fine Grained	LAYER 1 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Tape, Cream, Homogeneous, Fibrous	LAYER 2 30%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 3 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 3 60%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-77 32-1-25-77	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 45%	None Detected	Cellulose Fiber 15% Other Non-Fibrous Material 85%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 30%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 15%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-78 32-1-26-78	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected	Cellulose Fiber 40% Other Non-Fibrous 60%
PLM16-518-79 32-1-26-79	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected	Cellulose Fiber 40% Other Non-Fibrous 60%
PLM16-518-80 32-1-26-80	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected	Cellulose Fiber 40% Other Non-Fibrous 60%

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PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-81 32-1-27-81	LAYER 1 Mud, White, Homogeneous, Fine Grained	LAYER 1 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Tape, White, Homogeneous, Fibrous	LAYER 2 10%	None Detected		Fibrous Glass	98%
	LAYER 3 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 3 80%	None Detected		Other Non-Fibrous Material	2%
					Other Non-Fibrous Material	100%
PLM16-518-82 32-1-27-82	LAYER 1 Mud, White, Homogeneous, Fine Grained	LAYER 1 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Tape, White, Homogeneous, Fibrous	LAYER 2 10%	None Detected		Fibrous Glass	98%
	LAYER 3 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 3 80%	None Detected		Other Non-Fibrous Material	2%
					Other Non-Fibrous Material	100%
PLM16-518-83 32-1-27-83	LAYER 1 Mud, White, Homogeneous, Fine Grained	LAYER 1 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Tape, White, Homogeneous, Fibrous	LAYER 2 10%	None Detected		Fibrous Glass	98%
	LAYER 3 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 3 80%	None Detected		Other Non-Fibrous Material	2%
					Other Non-Fibrous Material	100%
PLM16-518-84 32-1-20-84	Black Mastic, Black, Homogeneous, Resinous	LAYER 1 100%	Chrysotile	5%	Other Non-Fibrous	95%
PLM16-518-85 32-1-28-85	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 40%	None Detected		Cellulose Fiber	10%
	LAYER 2 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 2 40%	None Detected		Other Non-Fibrous Material	90%
	LAYER 3 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 3 20%	None Detected		Other Non-Fibrous Material	100%
					Other Non-Fibrous Material	100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-518-86 32-1-28-86	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 40%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 2 40%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 3 20%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-87 32-1-28-87	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 40%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 20%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 20%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 20%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-88 32-1-29-88	LAYER 1 Mastic, Yellow, Homogeneous, Resinous	LAYER 1 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Baseboard, Tan, Homogeneous, Rubbery	LAYER 2 90%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-89 32-1-29-89	LAYER 1 Mastic, Yellow, Homogeneous, Resinous	LAYER 1 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Baseboard, Tan, Homogeneous, Rubbery	LAYER 2 90%	None Detected	Other Non-Fibrous Material 100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-518-90 32-1-29-90	LAYER 1 Mastic, Yellow, Homogeneous, Resinous	LAYER 1 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Baseboard, Tan, Homogeneous, Rubbery	LAYER 2 90%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-91 32-1-30-91	Floor Tile, Yellow, Homogeneous, Hard	LAYER 1 100%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-92 32-1-31-92	LAYER 1 Mastic, Green, Homogeneous, Resinous	LAYER 1 2%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Floor Tile, Green, Homogeneous, Hard	LAYER 2 98%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-93 32-1-32-93	LAYER 1 Mastic, Yellow, Homogeneous, Resinous	LAYER 1 2%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Floor Tile, Beige, Homogeneous, Hard	LAYER 2 96%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Mastic, Clear, Homogeneous, Resinous	LAYER 3 2%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-94 32-1-30-94	LAYER 1 Mastic, Green, Homogeneous, Resinous	LAYER 1 5%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Floor Tile, Beige, Homogeneous, Hard	LAYER 2 95%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-95 32-1-31-95	LAYER 1 Mastic, Green, Homogeneous, Resinous	LAYER 1 5%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Floor Tile, Beige, Homogeneous, Hard	LAYER 2 95%	None Detected	Other Non-Fibrous Material 100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-518-96 32-1-32-96	LAYER 1 Compound, White, Non-homogeneous, Fine Grained	LAYER 1 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Mastic, Yellow, Non-homogeneous, Resinous	LAYER 2 5%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Floor Tile, Tan, Homogeneous, Hard	LAYER 3 85%	None Detected	Other Non-Fibrous 100%
PLM16-518-97 32-1-30-97	LAYER 1 Compound, Gray, Homogeneous, Fine Grained	LAYER 1 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Mastic, Yellow, Homogeneous, Resinous	LAYER 2 5%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Floor Tile, Tan, Homogeneous, Hard	LAYER 3 85%	None Detected	Other Non-Fibrous 100%
PLM16-518-98 32-1-31-98	LAYER 1 Mastic, Green, Homogeneous, Resinous	LAYER 1 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Floor Tile, Green, Homogeneous, Hard	LAYER 2 90%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-99 32-1-32-99	LAYER 1 Mastic, Green, Homogeneous, Resinous	LAYER 1 5%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Floor Tile, White, Homogeneous, Hard	LAYER 2 85%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Mastic, Yellow, Homogeneous, Resinous	LAYER 3 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-100 32-1-33-100	Undercoating, Black, Homogeneous, Resinous	LAYER 1 100%	None Detected	Other Non-Fibrous 100%



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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-101 32-1-33-101	Undercoating, Gray, Homogeneous, Resinous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	20% 80%
PLM16-518-102 32-1-33-102	Undercoating, Black, Homogeneous, Resinous	LAYER 1 100%	None Detected		Other Non-Fibrous	100%
PLM16-518-103 32-1-34-103	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 20%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud, White, Homogeneous, Fine Grained	LAYER 4 10%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-104 32-1-34-104	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 20%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud, White, Homogeneous, Fine Grained	LAYER 4 10%	None Detected		Other Non-Fibrous Material	100%



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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-105 32-1-34-105	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 20%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud, White, Homogeneous, Fine Grained	LAYER 4 10%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-106 32-1-35-106	LAYER 1 Mastic, Black, Homogeneous, Resinous	LAYER 1 5%	Chrysotile	5%	Other Non-Fibrous Material	95%
	LAYER 2 Floor Tile, Tan, Homogeneous, Hard	LAYER 2 85%	None Detected		Other Non-Fibrous	100%
	LAYER 3 Mastic, Yellow, Homogeneous, Resinous	LAYER 3 10%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-107 32-1-35-107	Not Analyzed-First Positive Stop					
PLM16-518-108 32-1-35-108	Not Analyzed-First Positive Stop					
PLM16-518-109 32-1-36-109	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	40% 40% 20%
PLM16-518-110 32-1-36-110	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	40% 40% 20%
PLM16-518-111 32-1-36-111	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	40% 40% 20%



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## REPORT OF TEST RESULTS

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services

**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-518-112 32-1-37-112	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 55%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 20%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 15%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Cellulose Fiber 15% Other Non-Fibrous Material 85%
PLM16-518-113 32-1-37-113	Drywall with Paint, White, Brown, and Tan, Homogeneous, Fine Grained/Fibrous	LAYER 1 100%	None Detected	Cellulose Fiber 15% Other Non-Fibrous Material 85%
PLM16-518-114 32-1-37-114	Drywall with Paint, White, Brown, and Tan, Homogeneous, Fine Grained/Fibrous	LAYER 1 100%	None Detected	Cellulose Fiber 15% Other Non-Fibrous Material 85%
PLM16-518-115 32-1-38-115	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 20%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 20%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 15%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 45%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-116 32-1-38-116	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 20%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 2 80%	None Detected	Other Non-Fibrous Material 100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-518-117 32-1-38-117	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 20%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 2 80%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-118 32-1-39-118	LAYER 1 Mastic, Yellow, Homogeneous, Resinous	LAYER 1 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Floor Tile, Red, Homogeneous, Hard	LAYER 2 85%	None Detected	Other Non-Fibrous 100%
	LAYER 3 Mastic, Yellow, Homogeneous, Resinous	LAYER 3 5%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-119 32-1-39-119	LAYER 1 Mastic, Yellow, Homogeneous, Resinous	LAYER 1 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Floor Tile, Red, Homogeneous, Hard	LAYER 2 85%	None Detected	Other Non-Fibrous 100%
	LAYER 3 Mastic, Yellow, Homogeneous, Resinous	LAYER 3 5%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-120 32-1-39-120	LAYER 1 Mastic, Yellow, Homogeneous, Resinous	LAYER 1 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Floor Tile, Red, Homogeneous, Hard	LAYER 2 85%	None Detected	Other Non-Fibrous 100%
	LAYER 3 Mastic, Yellow, Homogeneous, Resinous	LAYER 3 5%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-121 32-1-40-121	LAYER 1 Mastic, Yellow, Homogeneous, Resinous	LAYER 1 15%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Floor Tile, Beige, Homogeneous, Hard	LAYER 2 85%	None Detected	Other Non-Fibrous Material 100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-518-122 32-1-40-122	LAYER 1 Mastic, Yellow, Homogeneous, Resinous	LAYER 1 15%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Floor Tile, Beige, Homogeneous, Hard	LAYER 2 85%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-123 32-1-40-123	LAYER 1 Mastic, Yellow, Homogeneous, Resinous	LAYER 1 15%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Floor Tile, Beige, Homogeneous, Hard	LAYER 2 85%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-124 32-1-41-124	LAYER 1 Mastic, Yellow, Homogeneous, Resinous	LAYER 1 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Floor Tile, Black, Homogeneous, Resinous	LAYER 2 85%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Mastic, Yellow, Homogeneous, Resinous	LAYER 3 5%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-125 32-1-41-125	LAYER 1 Mastic, Yellow, Homogeneous, Resinous	LAYER 1 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Floor Tile, Black, Homogeneous, Resinous	LAYER 2 85%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Mastic, Yellow, Homogeneous, Resinous	LAYER 3 5%	None Detected	Other Non-Fibrous Material 100%



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## REPORT OF TEST RESULTS

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services

**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-126 32-1-41-126	LAYER 1 Mastic, Yellow, Homogeneous, Resinous	LAYER 1 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Black, Homogeneous, Resinous	LAYER 2 85%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Mastic, Yellow, Homogeneous, Resinous	LAYER 3 5%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-127 32-1-42-127	LAYER 1 Mastic, Black and Yellow, Non- homogeneous, Resinous	LAYER 1 10%	Chrysotile	Trace	Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Pink, Homogeneous, Hard	LAYER 2 80%	None Detected		Other Non-Fibrous	100%
	LAYER 3 Mastic, Yellow, Homogeneous, Resinous	LAYER 3 10%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-128 32-1-42-128	LAYER 1 Mastic, Black and Yellow, Non- homogeneous, Resinous	LAYER 1 10%	Chrysotile	Trace	Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Pink, Homogeneous, Hard	LAYER 2 80%	None Detected		Other Non-Fibrous	100%
	LAYER 3 Mastic, Yellow, Homogeneous, Resinous	LAYER 3 10%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-129 32-1-42-129	LAYER 1 Mastic, Black and Yellow, Non- homogeneous, Resinous	LAYER 1 10%	Chrysotile	Trace	Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Pink, Homogeneous, Hard	LAYER 2 80%	None Detected		Other Non-Fibrous	100%
	LAYER 3 Mastic, Yellow, Homogeneous, Resinous	LAYER 3 10%	None Detected		Other Non-Fibrous Material	100%



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## REPORT OF TEST RESULTS

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services

**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-130 32-1-43-130	LAYER 1 Mastic, Black and Yellow, Non-homogeneous, Resinous	LAYER 1 10%	Chrysotile	Trace	Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, White, Homogeneous, Hard	LAYER 2 80%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Mastic, Yellow, Homogeneous, Resinous	LAYER 3 10%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-131 32-1-43-131	LAYER 1 Mastic, Black and Yellow, Non-homogeneous, Resinous	LAYER 1 10%	Chrysotile	Trace	Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, White, Homogeneous, Hard	LAYER 2 80%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Mastic, Yellow, Homogeneous, Resinous	LAYER 3 10%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-132 32-1-43-132	LAYER 1 Mastic, Black and Yellow, Non-homogeneous, Resinous	LAYER 1 10%	Chrysotile	Trace	Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, White, Homogeneous, Hard	LAYER 2 80%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Mastic, Yellow, Homogeneous, Resinous	LAYER 3 10%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-133 32-1-44-133	LAYER 1 Compound and Mastic, White, Yellow, and Black, Non-homogeneous, Fine Grained/Resinous	LAYER 1 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Beige, Homogeneous, Hard	LAYER 2 90%	None Detected		Other Non-Fibrous Material	100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-134 32-1-44-134	LAYER 1 Compound and Mastic, White, Yellow, and Black, Non-homogeneous, Fine Grained/Resinous	LAYER 1 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Beige, Homogeneous, Hard	LAYER 2 90%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-135 32-1-44-135	LAYER 1 Compound and Mastic, White, Yellow, and Black, Non-homogeneous, Fine Grained/Resinous	LAYER 1 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Beige, Homogeneous, Hard	LAYER 2 90%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-136 32-1-45-136	Ceiling Tile, Gray and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	40% 40% 20%
PLM16-518-137 32-1-45-137	Ceiling Tile, Gray and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	40% 40% 20%
PLM16-518-138 32-1-45-138	Ceiling Tile, Gray and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	40% 40% 20%
PLM16-518-139 32-1-46-139	LAYER 1 Mastic, Yellow and Black, Non- homogeneous, Resinous	LAYER 1 10%	Chrysotile	Trace	Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Beige, Homogeneous, Hard	LAYER 2 90%	None Detected		Other Non-Fibrous Material	100%



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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-140 32-1-46-140	LAYER 1 Mastic, Yellow and Black, Non-homogeneous, Resinous	LAYER 1 10%	Chrysotile	Trace	Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Beige, Homogeneous, Hard	LAYER 2 90%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-141 32-1-46-141	LAYER 1 Mastic, Yellow and Black, Non-homogeneous, Resinous	LAYER 1 10%	Chrysotile	Trace	Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Beige, Homogeneous, Hard	LAYER 2 90%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-142 32-1-47-142	Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	15% 85%
PLM16-518-143 32-1-47-143	Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	15% 85%
PLM16-518-144 32-1-47-144	Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	15% 85%
PLM16-518-145 32-1-48-145	Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	15% 85%
PLM16-518-146 32-1-48-146	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected		Cellulose Fiber Other Non-Fibrous Material	15% 85%
	LAYER 2 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 2 30%	None Detected		Other Non-Fibrous Material	100%



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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-518-147 32-1-48-147	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 15% Other Non-Fibrous Material 85%
	LAYER 2 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 2 30%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-148 32-1-49-148	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 90%	None Detected	Cellulose Fiber 15% Other Non-Fibrous Material 85%
	LAYER 2 Mud with Paint, White and Yellow, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-149 32-1-49-149	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 65%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 5%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Yellow, Homogeneous, Fine Grained	LAYER 4 20%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-150 32-1-49-150	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 65%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 5%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Yellow, Homogeneous, Fine Grained	LAYER 4 20%	None Detected	Other Non-Fibrous Material 100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-151 32-1-50-151	Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	15% 85%
PLM16-518-152 32-1-50-152	Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	15% 85%
PLM16-518-153 32-1-50-153	Drywall with Paint, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	15% 85%
PLM16-518-154 32-1-51-154	LAYER 1 Mastic, Black, Non-homogeneous, Resinous  LAYER 2 Mastic, Yellow, Non-homogeneous, Resinous  LAYER 3 Floor Tile, White, Homogeneous, Hard	LAYER 1 5%  LAYER 2 10%  LAYER 3 85%	Chrysotile  None Detected  None Detected	2%   	Other Non-Fibrous Material  Other Non-Fibrous Material  Other Non-Fibrous Material	98%  100%  100%
PLM16-518-155 32-1-51-155	Not Analyzed-First Positive Stop					
PLM16-518-156 32-1-51-156	Not Analyzed-First Positive Stop					
PLM16-518-157 32-1-52-157	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	98% 2%
PLM16-518-158 32-1-52-158	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	98% 2%
PLM16-518-159 32-1-52-159	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	98% 2%
PLM16-518-160 32-1-53-160	Mastic with Debris, Brown, Non- homogeneous, Resinous/Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	10% 90%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-161 32-1-53-161	Mastic with Debris, Brown, Non-homogeneous, Resinous/Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	10% 90%
PLM16-518-162 32-1-53-162	Mastic with Debris, Brown, Non-homogeneous, Resinous/Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	10% 90%
PLM16-518-163 32-1-54-163	Drywall, Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	15% 85%
PLM16-518-164 32-1-54-164	Drywall, Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	15% 85%
PLM16-518-165 32-1-54-165	Drywall, Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Other Non-Fibrous	15% 85%
PLM16-518-166 32-1-55-166	LAYER 1 Mastic, Yellow, Homogeneous, Resinous	LAYER 1 5%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Tan, Homogeneous, Hard	LAYER 2 95%	None Detected		Other Non-Fibrous	100%
PLM16-518-167 32-1-55-167	LAYER 1 Mastic, Yellow, Homogeneous, Resinous	LAYER 1 5%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Tan, Homogeneous, Hard	LAYER 2 95%	None Detected		Other Non-Fibrous	100%
PLM16-518-168 32-1-55-168	LAYER 1 Mastic, Yellow, Homogeneous, Resinous	LAYER 1 5%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Tan, Homogeneous, Hard	LAYER 2 95%	None Detected		Other Non-Fibrous	100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-169 32-1-56-169	LAYER 1 Mastic, Yellow, Homogeneous, Resinous	LAYER 1 2%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Off White, Homogeneous, Hard	LAYER 2 98%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-170 32-1-56-170	LAYER 1 Mastic, Yellow, Homogeneous, Resinous	LAYER 1 2%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Off White, Homogeneous, Hard	LAYER 2 98%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-171 32-1-56-171	LAYER 1 Mastic, Yellow, Homogeneous, Resinous	LAYER 1 2%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Floor Tile, Off White, Homogeneous, Hard	LAYER 2 98%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-172 32-1-57-172	Floor Tile, White and Green, Homogeneous, Hard	LAYER 1 100%	Chrysotile	2%	Other Non-Fibrous	98%
PLM16-518-173 32-1-57-173	Not Analyzed-First Positive Stop					
PLM16-518-174 32-1-57-174	Not Analyzed-First Positive Stop					
PLM16-518-175 32-1-58-175	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 80%	None Detected		Cellulose Fiber Other Non-Fibrous Material	15% 85%
	LAYER 2 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 2 20%	None Detected		Other Non-Fibrous Material	100%



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## REPORT OF TEST RESULTS

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services

**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-518-176 32-1-58-176	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected	Cellulose Fiber 15% Other Non-Fibrous Material 85%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 15%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 4 15%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-177 32-1-58-177	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected	Cellulose Fiber 15% Other Non-Fibrous Material 85%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 15%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 4 15%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-178 32-1-59-178	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected	Cellulose Fiber 40% Fibrous Glass 40% Other Non-Fibrous Material 20%
PLM16-518-179 32-1-59-179	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected	Cellulose Fiber 40% Fibrous Glass 40% Other Non-Fibrous Material 20%
PLM16-518-180 32-1-59-180	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected	Cellulose Fiber 40% Fibrous Glass 40% Other Non-Fibrous Material 20%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-181						
32-4-60-181	LAYER 1 Plaster, Tan, Homogeneous, Coarse Grained	LAYER 1 35%	None Detected		Hair Other Non-Fibrous Material	2% 98%
	LAYER 2 Skim Coat with Paper, White and Black, Non-homogeneous, Fibrous	LAYER 2 30%	None Detected		Cellulose Fiber Other Non-Fibrous Material	15% 85%
	LAYER 3 Ceiling Tile, Light Green, Homogeneous, Fibrous	LAYER 3 25%	None Detected		Fibrous Glass Other Non-Fibrous Material	98% 2%
	LAYER 4 Surface Coat, White, Homogeneous, Fibrous	LAYER 4 10%	Chrysotile	4%	Cellulose Fiber Other Non-Fibrous Material	15% 81%
PLM16-518-182						
32-4-60-182	Not Analyzed-First Positive Stop					
PLM16-518-183						
32-4-60-183	Not Analyzed-First Positive Stop					
PLM16-518-184						
32-4-61-184	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	40% 40% 20%
PLM16-518-185						
32-4-61-185	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	40% 40% 20%
PLM16-518-186						
32-4-61-186	Ceiling Tile, Brown and White, Homogeneous, Fibrous	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Other Non-Fibrous Material	40% 40% 20%
PLM16-518-187						
32-4-62-187	LAYER 1 Ceiling Tile, Brown, Homogeneous, Fibrous	LAYER 1 90%	None Detected		Fibrous Glass Other Non-Fibrous Material	98% 2%
	LAYER 2 Paper, Black, Homogeneous, Fibrous	LAYER 2 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	95% 5%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-518-188 32-4-62-188	LAYER 1 Ceiling Tile, Brown, Homogeneous, Fibrous	LAYER 1 90%	None Detected	Fibrous Glass 98% Other Non-Fibrous Material 2%
	LAYER 2 Paper, Black, Homogeneous, Fibrous	LAYER 2 10%	None Detected	Cellulose Fiber 95% Other Non-Fibrous Material 5%
PLM16-518-189 32-4-62-189	LAYER 1 Ceiling Tile, Brown, Homogeneous, Fibrous	LAYER 1 90%	None Detected	Fibrous Glass 98% Other Non-Fibrous Material 2%
	LAYER 2 Paper, Black, Homogeneous, Fibrous	LAYER 2 10%	None Detected	Cellulose Fiber 95% Other Non-Fibrous Material 5%
PLM16-518-190 32-4-63-190	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 50%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 20%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 20%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-191 32-4-63-191	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 50%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 20%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud, White, Homogeneous, Fine Grained	LAYER 4 20%	None Detected	Other Non-Fibrous Material 100%



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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-518-192 32-4-63-192	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 50%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 20%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 20%	None Detected		Other Non-Fibrous Material	100%
PLM16-518-193 32-5-64-193	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	Chrysotile	2%	Other Non-Fibrous Material	98%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 20%	Chrysotile	2%	Other Non-Fibrous Material	98%
PLM16-518-194 32-5-64-194	Not Analyzed-First Positive Stop					
PLM16-518-195 32-5-64-195	Not Analyzed-First Positive Stop					
PLM16-518-196 32-5-65-196	Cement Board, Gray, Homogeneous, Hard/Fibrous	LAYER 1 100%	Chrysotile	20%	Cellulose Fiber Other Non-Fibrous	5% 75%
PLM16-518-197 32-5-66-197	Cement Board, Black, Homogeneous, Hard/Fibrous	LAYER 1 100%	Chrysotile	15%	Cellulose Fiber Other Non-Fibrous	5% 80%



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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-518-198 32-5-67-198	LAYER 1 Drywall with Mud, White and Brown, Non-homogeneous, Fine Grained/Fibrous	LAYER 1 20%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud with Tape, White and Cream, Non-homogeneous, Fine Grained/Fibrous	LAYER 2 20%	None Detected	Cellulose Fiber 80% Other Non-Fibrous Material 20%
	LAYER 3 Adhesive, Yellow, Homogeneous, Resinous	LAYER 3 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 4 Wallpaper, White, Homogeneous, Semi-Fibrous	LAYER 4 50%	None Detected	Synthetic Fiber 25% Other Non-Fibrous Material 75%
PLM16-518-199 32-5-67-199	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 15%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud, White, Homogeneous, Fine Grained	LAYER 4 15%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-200 32-5-67-200	LAYER 1 Drywall with Mud, White and Brown, Non-homogeneous, Fine Grained/Fibrous	LAYER 1 20%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud with Tape, White and Cream, Non-homogeneous, Fine Grained/Fibrous	LAYER 2 20%	None Detected	Cellulose Fiber 80% Other Non-Fibrous Material 20%
	LAYER 3 Adhesive, Yellow, Homogeneous, Resinous	LAYER 3 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 4 Wallpaper, White, Homogeneous, Semi-Fibrous	LAYER 4 50%	None Detected	Synthetic Fiber 25% Other Non-Fibrous Material 75%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-518-201 32-5-68-201	LAYER 1 Mud, White, Homogeneous, Fine Grained	LAYER 1 20%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Adhesive, Yellow, Homogeneous, Resinous	LAYER 2 15%	None Detected	Cellulose Fiber 5% Other Non-Fibrous Material 95%
	LAYER 3 Wallpaper, White, Homogeneous, Semi-Fibrous	LAYER 3 15%	None Detected	Synthetic Fiber 25% Other Non-Fibrous Material 75%
	LAYER 4 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 4 50%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-202 32-5-68-202	LAYER 1 Drywall with Mud, White and Brown, Non-homogeneous, Fine Grained/Fibrous	LAYER 1 20%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Adhesive, Yellow, Homogeneous, Resinous	LAYER 2 15%	None Detected	Cellulose Fiber 5% Other Non-Fibrous Material 95%
	LAYER 3 Wallpaper, White, Homogeneous, Semi-Fibrous	LAYER 3 15%	None Detected	Synthetic Fiber 25% Other Non-Fibrous Material 75%
	LAYER 4 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 4 50%	None Detected	Other Non-Fibrous Material 100%
PLM16-518-203 32-5-68-203	LAYER 1 Mud, White, Homogeneous, Fine Grained/Fibrous	LAYER 1 20%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Adhesive, Yellow, Homogeneous, Resinous	LAYER 2 15%	None Detected	Cellulose Fiber 5% Other Non-Fibrous Material 95%
	LAYER 3 Wallpaper, White, Homogeneous, Semi-Fibrous	LAYER 3 15%	None Detected	Synthetic Fiber 25% Other Non-Fibrous Material 75%
	LAYER 4 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 4 50%	None Detected	Other Non-Fibrous Material 100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services


**PROJECT:** PLM16-518

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
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ADDITIONAL COMMENTS: All separable parts or layers (except paint) within the same sample are analyzed and reported individually. Composite asbestos percent is reported, if applicable, by visual estimation.

ND = None Detected TR = Trace, less than 1.0%

**Analyst:**

  
Marissa Urdiales

**Date:** 11/21/2016



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Contact: Mike Dustman

Address: 600 East 8th Street, Suite B

Kansas City, Missouri 64106

Phone #: (816) 935-2929

Fax #/Email: mdustman@familyenvironmental.com

Date Sampled: 11/14/2016-11/15/2016

Sample Location: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73102 (1932-West Building)

Special Instructions: Positive Stop Analysis. Family Project Number: 110816-1

Lab ID (for lab use only)	Client ID	Description	Type of Analysis	Volume/Other
PLM16-S18-01	32-B-1-1	Carpet Mastic	PLM	
02	32-B-1-2	Carpet Mastic	PLM	
03	32-B-1-3	Carpet Mastic	PLM	
04	32-B-2-4	Tar wrap on duct	PLM	
05	32-B-2-5	Tar wrap on duct	PLM	
06	32-B-2-6	Tar wrap on duct	PLM	
07	32-B-3-7	Red floor tile with mastic	PLM	
08	32-B-3-8	Red floor tile with mastic	PLM	
09	32-B-3-9	Red floor tile with mastic	PLM	
10	32-B-4-10	Floor tile with mastic	PLM	
11	32-B-4-11	Floor tile with mastic	PLM	
12	32-B-4-12	Floor tile with mastic	PLM	
13	32-B-5-13	Floor tile with mastic	PLM	
14	32-B-5-14	Floor tile with mastic	PLM	
15	32-B-5-15	Floor tile with mastic	PLM	
16	32-B-6-16	Black floor tile with mastic	PLM	
17	32-B-6-17	Black floor tile with mastic	PLM	
18	32-B-6-18	Black floor tile with mastic	PLM	
19	32-B-6-19	Floor tile with mastic	PLM	
20	32-B-6-20	Floor tile with mastic	PLM	

Total Number of Samples: 20 (of 20)

Sample Condition (Accept/Reject): accept

Requested Turnaround Time: ☐ RUSH \*\*\* ☐ Next Day ☒ 2 Day

\*\*\* RUSH Turnaround times required prior notification. Additional fees may apply. Call lab for more details.

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**River North Environmental Testing, Inc.**

3650 Chestnut Place • Denver, CO 80216

Ph: 303-297-0079 • Fax: 303-292-1451

www.rnetesting.com • info@rnetesting.com

Client: Family Environmental, KC

Contact: Mike Dustman

Address: 600 East 8th Street, Suite B

Kansas City, Missouri 64106

Phone #: (816) 935-2929

Fax #/Email: mdustman@familyenvironmental.com

Date Sampled: 11/14/2016-11/15/2016

Sample Location: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73102 (1932-West Building)

Special Instructions: Positive Stop Analysis. Family Project Number: 110816-1

Lab ID (for lab use only)	Client ID	Description	Type of Analysis	Volume/Other
PLM16-S18-21	32-B-6-21	floor tile with mastic	PLM	
22	32-B-7-22	Plaster and texture	PLM	
23	32-B-8-23	2'x4' Sculpted ceiling tile	PLM	
24	32-B-9-24	floor tile with mastic	PLM	
25	32-B-9-25	floor tile with mastic	PLM	
26	32-B-9-26	floor tile with mastic	PLM	
27	32-B-10-27	floor tile with mastic	PLM	
28	32-B-10-28	floor tile with mastic	PLM	
29	32-B-10-29	floor tile with mastic	PLM	
30	32-B-11-30	layered wall system	PLM	
31	32-B-8-31	2'x4' Sculpted ceiling tile	PLM	
32	32-B-11-32	layered wall system	PLM	
33	32-B-11-33	layered wall system	PLM	
34	32-B-8-34	2'x4' Sculpted ceiling tile	PLM	
35	32-1-12-35	layered wall system	PLM	
36	32-1-12-36	layered wall system	PLM	
37	32-1-12-37	layered wall system	PLM	
38	32-1-13-38	2'x2' ceiling tile	PLM	
39	32-1-13-39	2'x2' ceiling tile	PLM	
40	32-1-13-40	2'x2' ceiling tile	PLM	

Total Number of Samples: 20

Sample Condition (Accept/Reject): accept

Requested Turnaround Time: ☐ RUSH \*\*\* ☐ Next Day ☒ 2 Day

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Date Sampled: 11/14/2016-11/15/2016

Sample Location: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73102 (1932-West Building)

Special Instructions: Positive Stop Analysis. Family Project Number: 110816-1

Lab ID (for lab use only)	Client ID	Description	Type of Analysis	Volume/Other
PLM16-S18-91	32-1-14-41	4'x1' ceiling tile	PLM	
92	32-1-14-42	4'x1' ceiling tile	PLM	
93	32-1-14-43	4'x1' ceiling tile	PLM	
94	32-1-15-44	black mastic/carpet glue	PLM	
95	32-1-15-45	black mastic/carpet glue	PLM	
96	32-1-15-46	black mastic/carpet glue	PLM	
97	32-1-16-47	mirror mastic	PLM	
98	32-1-16-48	mirror mastic	PLM	
99	32-1-16-49	mirror mastic	PLM	
50	32-1-17-50	Fireproofing overspray	PLM	
51	32-1-17-51	Fireproofing	PLM	
52	32-1-17-52	Fireproofing	PLM	
53	32-1-7-53	plaster/texture	PLM	
54	32-1-18-54	layered wall system	PLM	
55	32-1-18-55	layered wall system	PLM	
56	32-1-18-56	layered wall system	PLM	
57	32-1-19-57	textured 2x2 ceiling tile	PLM	
58	32-1-19-58	textured 2x2 ceiling tile	PLM	
59	32-1-19-59	textured 2x2 ceiling tile	PLM	
60	32-1-20-60	black mastic/carpet glue	PLM	

Total Number of Samples: 20

Sample Condition (Accept/Reject): accept

Requested Turnaround Time: ☐ RUSH \*\*\* ☐ Next Day ☒ 2 Day

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Phone #: (816) 935-2929

Fax #/Email: mdustman@familyenvironmental.com

Date Sampled: 11/14/2016-11/15/2016

Sample Location: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73102 (1932-West Building)

Special Instructions: Positive Stop Analysis. Family Project Number: 110816-1

Lab ID (for lab use only)	Client ID	Description	Type of Analysis	Volume/Other
PLM16-S18-61	32-1-20-61	black mastic/carpet glue	PLM	
62	32-1-20-62	black mastic/carpet glue	PLM	
63	32-1-21-63	beige 12x12 FT with mastic	PLM	
64	32-1-21-64	beige 12x12 FT with mastic	PLM	
65	32-1-21-65	beige 12x12 FT with mastic	PLM	
66	32-1-22-66	Pink 12x12 FT with mastic	PLM	
67	32-1-22-67	Pink 12x12 FT with mastic	PLM	
68	32-1-22-68	Pink 12x12 FT with mastic	PLM	
69	32-1-23-69	beige 12x12 FT with mastic	PLM	
70	32-1-23-70	beige 12x12 FT with mastic	PLM	
71	32-1-23-71	beige 12x12 FT with mastic	PLM	
72	32-1-24-72	layered wall system	PLM	
73	32-1-24-73	layered wall system	PLM	
74	32-1-24-74	layered wall system	PLM	
75	32-1-25-75	layered wall system	PLM	
76	32-1-25-76	layered wall system	PLM	
77	32-1-25-77	layered wall system	PLM	
78	32-1-26-78	2'x2' dot ceiling tile	PLM	
79	32-1-26-79	2'x2' dot ceiling tile	PLM	
80	32-1-26-80	2'x2' dot ceiling tile	PLM	

Total Number of Samples: 20

Sample Condition (Accept/Reject): accept

Requested Turnaround Time: ( ) RUSH \*\*\* ( ) Next Day (X) 2 Day

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Date Sampled: 11/14/2016-11/15/2016

Sample Location: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73102 (1932-West Building)

Special Instructions: Positive Stop Analysis. Family Project Number: 110816-1

Lab ID (for lab use only)	Client ID	Description	Type of Analysis	Volume/Other
PLM16-518-81	32-1-27-81	layered wall system	PLM	
82	32-1-27-82	layered wall system	PLM	
83	32-1-27-83	layered wall system	PLM	
84	32-1-20-84	black mastic	PLM	
85	32-1-28-85	layered wall system	PLM	
86	32-1-28-86	layered wall system	PLM	
87	32-1-28-87	layered wall system	PLM	
88	32-1-29-88	Cove base with yellow glue	PLM	
89	32-1-29-89	Cove base with yellow glue	PLM	
90	32-1-29-90	Cove base with yellow glue	PLM	
91	32-1-30-91	Yellow 12x12 FT with mastic	PLM	
92	32-1-31-92	Green FT with mastic	PLM	
93	32-1-32-93	Beige FT with mastic	PLM	
94	32-1-30-94	Yellow 12x12 FT with mastic	PLM	
95	32-1-31-95	Green FT with mastic	PLM	
96	32-1-32-96	Beige FT with mastic	PLM	
97	32-1-30-97	Yellow 12x12 FT with mastic	PLM	
98	32-1-31-98	Green FT with mastic	PLM	
99	32-1-32-99	Beige FT with mastic	PLM	
100	32-1-33-100	Sink undercoating	PLM	

Total Number of Samples: 20

Sample Condition (Accept/Reject): accept

Requested Turnaround Time: ( ) RUSH \*\*\* ( ) Next Day (X) 2 Day

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Client: Family Environmental, KC

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Address: 600 East 8th Street, Suite B

Kansas City, Missouri 64106

Phone #: (816) 935-2929

Fax #/Email: mdustman@familyenvironmental.com

Date Sampled: 11/14/2016-11/15/2016

Sample Location: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73102 (1932-West Building)

Special Instructions: Positive Stop Analysis. Family Project Number: 110816-1

Lab ID (for lab use only)	Client ID	Description	Type of Analysis	Volume/Other
PLM16-S18-101	32-1-33-101	sink undercoating	PLM	
102	32-1-33-102	sink undercoating	PLM	
103	32-1-34-103	layered wall system	PLM	
104	32-1-34-104	layered wall system	PLM	
105	32-1-34-105	layered wall system	PLM	
106	32-1-35-106	beige floor tile with mastic	PLM	
107	32-1-35-107	beige floor tile with mastic	PLM	
108	32-1-35-108	beige floor tile with mastic	PLM	
109	32-1-36-109	2'x2' wavy ceiling tile	PLM	
110	32-1-36-110	2'x2' wavy ceiling tile	PLM	
111	32-1-36-111	2'x2' wavy ceiling tile	PLM	
112	32-1-37-112	layered wall system	PLM	
113	32-1-37-113	layered wall system	PLM	
114	32-1-37-114	layered wall system	PLM	
115	32-1-38-115	layered wall system	PLM	
116	32-1-38-116	layered wall system	PLM	
117	32-1-38-117	layered wall system	PLM	
118	32-1-39-118	red floor tile with mastic	PLM	
119	32-1-39-119	red floor tile with mastic	PLM	
120	32-1-39-120	red floor tile with mastic	PLM	

Total Number of Samples: 20

Sample Condition (Accept/Reject): accept

Requested Turnaround Time: ( ) RUSH \*\*\* ( ) Next Day (X) 2 Day

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Client: Family Environmental, KC

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Address: 600 East 8th Street, Suite B

Kansas City, Missouri 64106

Phone #: (816) 935-2929

Fax #/Email: mdustman@familvenvironmental.com

Date Sampled: 11/14/2016-11/15/2016

Sample Location: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73102 (1932-West Building)

Special Instructions: Positive Stop Analysis. Family Project Number: 110816-1

Lab ID (for lab use only)	Client ID	Description	Type of Analysis	Volume/Other
PLM16-518-121	32-1-40-121	Beige 12x12 floor tile with mastic	PLM	
122	32-1-40-122	Beige 12x12 floor tile with mastic	PLM	
123	32-1-40-123	Beige 12x12 floor tile with mastic	PLM	
124	32-1-41-124	black 12x12 floor tile with mastic	PLM	
125	32-1-41-125	black 12x12 floor tile with mastic	PLM	
126	32-1-41-126	black 12x12 floor tile with mastic	PLM	
127	32-1-42-127	Pink floor tile with mastic	PLM	
128	32-1-42-128	Pink floor tile with mastic	PLM	
129	32-1-42-129	Pink floor tile with mastic	PLM	
130	32-1-43-130	Beige 12x12 floor tile with mastic	PLM	
131	32-1-43-131	Beige 12x12 floor tile with mastic	PLM	
132	32-1-43-132	Beige 12x12 floor tile with mastic	PLM	
133	32-1-44-133	Beige 12x12 floor tile with mastic	PLM	
134	32-1-44-134	Beige 12x12 floor tile with mastic	PLM	
135	32-1-44-135	Beige 12x12 floor tile with mastic	PLM	
136	32-1-45-136	2'x2' beveled ceiling tile	PLM	
137	32-1-45-137	2'x2' beveled ceiling tile	PLM	
138	32-1-45-138	2'x2' beveled ceiling tile	PLM	
139	32-1-46-139	Beige 12x12 floor tile with mastic	PLM	
140	32-1-46-140	Beige 12x12 floor tile with mastic	PLM	

Total Number of Samples: 20

Sample Condition (Accept/Reject): accept

Requested Turnaround Time: ( ) RUSH \*\*\* ( ) Next Day (X) 2 Day

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Contact: Mike Dustman

Address: 600 East 8th Street, Suite B

Kansas City, Missouri 64106

Phone #: (816) 935-2929

Fax #/Email: mdustman@familyenvironmental.com

Date Sampled: 11/14/2016-11/15/2016

Sample Location: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73102 (1932-West Building)

Special Instructions: Positive Stop Analysis. Family Project Number: 110816-1

Lab ID (for lab use only)	Client ID	Description	Type of Analysis	Volume/Other
PLM16-S18-141	32-1-46-141	Beige 12x12 floor tile with mastic	PLM	
142	32-1-47-142	Beige paper covered 2x4 ceiling tile	PLM	
143	32-1-47-143	Beige paper covered 2x4 ceiling tile	PLM	
144	32-1-47-144	Beige paper covered 2x4 ceiling tile	PLM	
145	32-1-48-145	layered wall system	PLM	
146	32-1-48-146	layered wall system	PLM	
147	32-1-48-147	layered wall system	PLM	
148	32-1-49-148	layered wall system	PLM	
149	32-1-49-149	layered wall system	PLM	
150	32-1-49-150	layered wall system	PLM	
151	32-1-50-151	Plastic covered 2x4 ceiling tile	PLM	
152	32-1-50-152	Plastic covered 2x4 ceiling tile	PLM	
153	32-1-50-153	Plastic covered 2x4 ceiling tile	PLM	
154	32-1-51-154	White marbled floor tile with mastic	PLM	
155	32-1-51-155	White marbled floor tile with mastic	PLM	
156	32-1-51-156	White marbled floor tile with mastic	PLM	
157	32-1-52-157	Pinhole 1x1 ceiling tile	PLM	
158	32-1-52-158	Pinhole 1x1 ceiling tile	PLM	
159	32-1-52-159	Pinhole 1x1 ceiling tile	PLM	
160	32-1-53-160	Ceiling tile glue dots	PLM	

Total Number of Samples: 20

Sample Condition (Accept/Reject): Accept

Requested Turnaround Time: ☐ RUSH \*\*\* ☐ Next Day ☒ 2 Day

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Kansas City, Missouri 64106

Phone #: (816) 935-2929

Fax #/Email: mdustman@familyenvironmental.com

Date Sampled: 11/14/2016-11/15/2016

Sample Location: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73102 (1932-West Building)

Special Instructions: Positive Stop Analysis. Family Project Number: 110816-1

Lab ID (for lab use only)	Client ID	Description	Type of Analysis	Volume/Other
PLM16-S18-161	32-1-53-161	Ceiling tile glue dots	PLM	
162	32-1-53-162	Ceiling tile glue dots	PLM	
163	32-1-54-163	Drywall above 1x1 ceiling tile	PLM	
164	32-1-54-164	Drywall above 1x1 ceiling tile	PLM	
165	32-1-54-165	Drywall above 1x1 ceiling tile	PLM	
166	32-1-55-166	Tan 12x12 floor tile with mastic	PLM	
167	32-1-55-167	Tan 12x12 floor tile with mastic	PLM	
168	32-1-55-168	Tan 12x12 floor tile with mastic	PLM	
169	32-1-56-169	Off white 12x12 FT with mastic	PLM	
170	32-1-56-170	Off white 12x12 FT with mastic	PLM	
171	32-1-56-171	Off white 12x12 FT with mastic	PLM	
172	32-1-57-172	Green speckle floor tile with mastic	PLM	
173	32-1-57-173	Green speckle floor tile with mastic	PLM	
174	32-1-57-174	Green speckle floor tile with mastic	PLM	
175	32-1-58-175	layered wall system	PLM	
176	32-1-58-176	layered wall system	PLM	
177	32-1-58-177	layered wall system	PLM	
178	32-1-59-178	2'x4' sculpted ceiling tile	PLM	
179	32-1-59-179	2'x4' sculpted ceiling tile	PLM	
180	32-1-59-180	2'x4' sculpted ceiling tile	PLM	

Total Number of Samples: 20

Sample Condition (Accept/Reject): accept

Requested Turnaround Time: ☐ RUSH \*\*\* ☐ Next Day ☒ 2 Day

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Fax #/Email: mdustman@familyenvironmental.com

Date Sampled: 11/14/2016-11/15/2016

Sample Location: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73102 (1932-West Building)

Special Instructions: Positive Stop Analysis. Family Project Number: 110816-1

Lab ID (for lab use only)	Client ID	Description	Type of Analysis	Volume/Other
PLM16-S18-181	32-4-60-181	layered wall system	PLM	
182	32-4-60-182	layered wall system	PLM	
183	32-4-60-183	layered wall system	PLM	
184	32-4-61-184	wavy sculpted 2x4 ceiling tile	PLM	
185	32-4-61-185	wavy sculpted 2x4 ceiling tile	PLM	
186	32-4-61-186	wavy sculpted 2x4 ceiling tile	PLM	
187	32-4-62-187	Black paper ceiling tile	PLM	
188	32-4-62-188	Black paper ceiling tile	PLM	
189	32-4-62-189	Black paper ceiling tile	PLM	
190	32-4-63-190	layered wall system	PLM	
191	32-4-63-191	layered wall system	PLM	
192	32-4-63-192	layered wall system	PLM	
193	32-5-64-193	layered wall system	PLM	
194	32-5-64-194	layered wall system	PLM	
195	32-5-64-195	layered wall system	PLM	
196	32-5-65-196	Cement board canter	PLM	
197	32-5-66-197	Cement board canter	PLM	
198	32-5-67-198	layered wall system	PLM	
199	32-5-67-199	layered wall system	PLM	
200	32-5-67-200	layered wall system	PLM	

Total Number of Samples: 20

Sample Condition (Accept/Reject): accept

Requested Turnaround Time: ( ) RUSH \*\*\* ( ) Next Day (X) 2 Day

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Contact: Mike Dustman

Kansas City, Missouri 64106

Fax #/Email: [mdustman@familyenvironmental.com](mailto:mdustman@familyenvironmental.com)

Special Instructions: Positive Stop Analysis. Family Project Number: 110816-1

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11/18/2016

Family Environmental, K.C.  
600 East 8th Street, Suite B  
Kansas City, MO 64106

Re: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73102 (1932-West Building)  
PLM16-525

Mr. Dustman,

Attached are the results of Polarized Light Microscopic (PLM) analysis for asbestos contained in the bulk sample materials submitted to this facility on 11/18/2016

Bulk samples are analyzed in accordance with USEPA test method EPA/600/M4-82-020 and EPA/600/R-93/116, which requires that distinctly different materials or layers present within a sample be analyzed and reported separately. (For measurement uncertainty, refer to table 2.1 in EPA/600/R-93/116 method.) Sometimes it is not possible to completely separate thin or strongly adhering layers, such as paint or adhesive, and a combined result is given. For some complex materials, such as drywall/tape/mud joints, a composite or overall asbestos content may be reported in addition to individual layer results. RNET, Inc. is currently accredited for bulk asbestos analysis by the National Voluntary Laboratory Accreditation Program (NVLAP) of the National Institute of Standards and Technology (NIST). Our NVLAP laboratory code number is 200448-0.

Due to the limitations of the EPA 600 Method, nonfriable organically bound materials (NOBs) such as floor tiles can be difficult to analyze via PLM. EPA recommends that all NOBs reported as non-detect by PLM analysis be further analyzed by Transmission Electron Microscopy for more definitive results. Please note that the PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation.

The analytical results provided in this report apply only to the samples submitted to the laboratory. This report is confidential. Details of this report will not be discussed with any person or agency not associated with you or your organization. This report must be reproduced in its entirety and shall not be copied in part or used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. Samples will be held for a minimum of sixty days unless longer storage is requested. If you have any questions regarding the content of this report please call RNET, Inc. at 303-296-6022.

A handwritten signature in blue ink, appearing to read "M Urdiales".

Marissa Urdiales  
Asbestos Analyst  
murdiales@familyenvironmental.com  
Cell: 719-214-2837

A handwritten signature in blue ink, appearing to read "Katie I Shaw".

Katie I Shaw  
PLM Laboratory Manager/Asbestos Analyst  
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NVLAP Lab Code: 200448-0



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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-525

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-525-01 32-5-69-204	Woven Material, Tan, Homogeneous, Fibrous	LAYER 1 100%	None Detected	Cellulose Fiber 90% Other Non-Fibrous 10%
PLM16-525-02 32-5-69-205	Woven Material, Tan, Homogeneous, Fibrous	LAYER 1 100%	None Detected	Cellulose Fiber 90% Other Non-Fibrous 10%
PLM16-525-03 32-5-69-206	Woven Material, Tan, Homogeneous, Fibrous	LAYER 1 100%	None Detected	Cellulose Fiber 90% Other Non-Fibrous 10%
PLM16-525-04 32-2-70-207	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous LAYER 2 Mud, White, Homogeneous, Fine Grained LAYER 3 Tape, Cream, Homogeneous, Fibrous LAYER 4 Mud with Paint, White and Tan, Non- homogeneous, Fine Grained	LAYER 1 70% LAYER 2 10% LAYER 3 10% LAYER 4 10%	None Detected None Detected None Detected None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80% Other Non-Fibrous Material 100% Cellulose Fiber 90% Other Non-Fibrous Material 10% Other Non-Fibrous Material 100%
PLM16-525-05 32-2-70-208	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous LAYER 2 Mud, White, Homogeneous, Fine Grained LAYER 3 Tape, Cream, Homogeneous, Fibrous LAYER 4 Mud with Paint, White and Tan, Non- homogeneous, Fine Grained	LAYER 1 70% LAYER 2 10% LAYER 3 10% LAYER 4 10%	None Detected None Detected None Detected None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80% Other Non-Fibrous Material 100% Cellulose Fiber 90% Other Non-Fibrous Material 10% Other Non-Fibrous Material 100%



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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-525

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-525-06 32-2-70-209	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 90% Other Non-Fibrous Material 10%
	LAYER 4 Mud with Paint, White and Tan, Non-homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-525-07 32-2-71-210	LAYER 1 Skim Coat, White, Homogeneous, Fine Grained	LAYER 1 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 40%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 90% Other Non-Fibrous Material 10%
	LAYER 4 Mud with Paint, White and Tan, Non-homogeneous, Fine Grained	LAYER 4 40%	None Detected	Other Non-Fibrous Material 100%
PLM16-525-08 32-2-71-211	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 15% Other Non-Fibrous Material 85%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 90% Other Non-Fibrous Material 10%
	LAYER 4 Mud with Paint, White and Tan, Non-homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%



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## REPORT OF TEST RESULTS

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services

**PROJECT:** PLM16-525

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-525-09 32-2-71-212	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 15% Other Non-Fibrous Material 85%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 90% Other Non-Fibrous Material 10%
	LAYER 4 Mud with Paint, White and Tan, Non-homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-525-10 32-3-72-213	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 90% Other Non-Fibrous Material 10%
	LAYER 4 Mud with Paint, White and Gray-Blue, Non-homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-525-11 32-3-72-214	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 90% Other Non-Fibrous Material 10%
	LAYER 4 Mud with Paint, White and Gray-Blue, Non-homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-525

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-525-12 32-3-72-215	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 90% Other Non-Fibrous Material 10%
	LAYER 4 Mud with Paint, White and Gray-Blue, Non-homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-525-13 32-6-73-216	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 90% Other Non-Fibrous Material 10%
	LAYER 4 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-525-14 32-6-73-217	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 90% Other Non-Fibrous Material 10%
	LAYER 4 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-525

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-525-15 32-6-73-218	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 90% Other Non-Fibrous Material 10%
	LAYER 4 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-525-16 32-7-74-219	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 90% Other Non-Fibrous Material 10%
	LAYER 4 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-525-17 32-7-74-220	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 90% Other Non-Fibrous Material 10%
	LAYER 4 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%



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## REPORT OF TEST RESULTS

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services

**PROJECT:** PLM16-525

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-525-18 32-7-74-221	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 90% Other Non-Fibrous Material 10%
	LAYER 4 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-525-19 32-7-75-222	Ceiling Tile, White, Homogeneous, Fibrous	LAYER 1 100%	None Detected	Fibrous Glass 70% Other Non-Fibrous 30%
PLM16-525-20 32-7-75-223	Ceiling Tile, White, Homogeneous, Fine Grained	LAYER 1 100%	None Detected	Fibrous Glass 70% Other Non-Fibrous 30%
PLM16-525-21 32-7-75-224	Ceiling Tile, White, Homogeneous, Fine Grained	LAYER 1 100%	None Detected	Fibrous Glass 70% Other Non-Fibrous 30%
PLM16-525-22 32-8-76-225	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 90% Other Non-Fibrous Material 10%
	LAYER 4 Mud with Paint, White and Tan, Non-homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-525

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-525-23 32-8-76-226	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 90% Other Non-Fibrous Material 10%
	LAYER 4 Mud with Paint, White and Tan, Non-homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-525-24 32-8-76-227	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 90% Other Non-Fibrous Material 10%
	LAYER 4 Mud with Paint, White and Tan, Non-homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-525-25 32-9-77-228	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 20%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 20%	None Detected	Cellulose Fiber 99% Other Non-Fibrous Material 1%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-525

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-525-26 32-9-77-229	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 99% Other Non-Fibrous Material 1%
	LAYER 4 Mud with Paint, White and Gray, Non-homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-525-27 32-9-77-230	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 99% Other Non-Fibrous Material 1%
	LAYER 4 Mud with Paint, White and Gray, Non-homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-525-28 32-10-78-231	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 99% Other Non-Fibrous Material 1%
	LAYER 4 Mud with Paint, White and Tan, Non-homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%



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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-525

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-525-29 32-10-78-232	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 99% Other Non-Fibrous Material 1%
	LAYER 4 Mud with Paint, White and Tan, Non-homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-525-30 32-10-78-233	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 20% Other Non-Fibrous Material 80%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 99% Other Non-Fibrous Material 1%
	LAYER 4 Mud with Paint, White and Tan, Non-homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-525-31 32-10-79-234	Woven Material, Black and Green, Homogeneous, Fibrous	LAYER 1 100%	None Detected	Cellulose Fiber 90% Other Non-Fibrous 10%
PLM16-525-32 32-10-79-235	Woven Material, Black and Green, Homogeneous, Fibrous	LAYER 1 100%	None Detected	Cellulose Fiber 90% Other Non-Fibrous 10%
PLM16-525-33 32-10-79-236	Woven Material, Black and Green, Homogeneous, Fibrous	LAYER 1 100%	None Detected	Cellulose Fiber 90% Other Non-Fibrous 10%
PLM16-525-34 32-10-80-237	Membrane, Black, Homogeneous, Resinous/Fibrous	LAYER 1 100%	None Detected	Fibrous Glass Resin 50% 50%



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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-525

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-525-35 32-10-80-238	Membrane, Black, Homogeneous, Resinous/Fibrous	LAYER 1 100%	None Detected		Fibrous Glass Resin	50% 50%
PLM16-525-36 32-10-80-239	Membrane, Black, Homogeneous, Resinous/Fibrous	LAYER 1 100%	None Detected		Fibrous Glass Resin	50% 50%
PLM16-525-37 32-12-81-240	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected		Cellulose Fiber Other Non-Fibrous Material	20% 80%
	LAYER 2 Mud, White, Non-homogeneous, Fine Grained	LAYER 2 10%	Chrysotile	Trace	Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Non-homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	99% 1%
	LAYER 4 Mud, White, Non-homogeneous, Fine Grained	LAYER 4 10%	Chrysotile	Trace	Other Non-Fibrous Material	100%
PLM16-525-38 32-12-81-241	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected		Cellulose Fiber Other Non-Fibrous Material	20% 80%
	LAYER 2 Mud, White, Non-homogeneous, Fine Grained	LAYER 2 10%	Chrysotile	Trace	Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Non-homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	99% 1%
	LAYER 4 Mud, White, Non-homogeneous, Fine Grained	LAYER 4 10%	Chrysotile	Trace	Other Non-Fibrous Material	100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-525

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-525-39 32-12-81-242	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected		Cellulose Fiber Other Non-Fibrous Material	20% 80%
	LAYER 2 Mud, White, Non-homogeneous, Fine Grained	LAYER 2 10%	Chrysotile	Trace	Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Non-homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	99% 1%
	LAYER 4 Mud, White, Non-homogeneous, Fine Grained	LAYER 4 10%	Chrysotile	Trace	Other Non-Fibrous Material	100%
PLM16-525-40 32-12-33-343	Coating, Black, Homogeneous, Resinous	LAYER 1 100%	Chrysotile	3%	Other Non-Fibrous	97%
PLM16-525-41 32-13-82-344	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected		Cellulose Fiber Other Non-Fibrous Material	20% 80%
	LAYER 2 Tape, Cream, Homogeneous, Fibrous	LAYER 2 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	90% 10%
	LAYER 3 Mud with Paint, White and Tan, Non- homogeneous, Fine Grained	LAYER 3 20%	Chrysotile	Trace	Other Non-Fibrous Material	100%
PLM16-525-42 32-13-82-345	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected		Cellulose Fiber Other Non-Fibrous Material	20% 80%
	LAYER 2 Tape, Cream, Homogeneous, Fibrous	LAYER 2 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	90% 10%
	LAYER 3 Mud with Paint, White and Tan, Non- homogeneous, Fine Grained	LAYER 3 20%	Chrysotile	Trace	Other Non-Fibrous Material	100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-525

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-525-43 32-13-82-346	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected		Cellulose Fiber Other Non-Fibrous Material	20% 80%
	LAYER 2 Tape, Cream, Homogeneous, Fibrous	LAYER 2 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	90% 10%
	LAYER 3 Mud with Paint, White and Tan, Non- homogeneous, Fine Grained	LAYER 3 20%	Chrysotile	Trace	Other Non-Fibrous Material	100%

ADDITIONAL COMMENTS: All separable parts or layers (except paint) within the same sample are analyzed and reported individually. Composite asbestos percent is reported, if applicable, by visual estimation.

ND = None Detected TR = Trace, less than 1.0%

**Analyst:**

*Katie Shaw* - for Katie Shaw  
Katie Shaw

**Date:** 11/26/2016



**River North Environmental Testing, Inc.**

3650 Chestnut Place • Denver, CO 80216

Ph: 303-297-0079 • Fax: 303-292-1451

www.rnetesting.com • info@rnetesting.com

Client: Family Environmental, KC

Contact: Mike Dustman

Address: 600 East 8th Street, Suite B

Kansas City, Missouri 64106

Phone #: (816) 935-2929

Fax #/Email: mdustman@familyenvironmental.com

Date Sampled: 11/16/2016

Sample Location: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73102 (1932-West Building)

Special Instructions: Positive Stop Analysis. Family Project Number: 110816-1

Lab ID (for lab use only)	Client ID	Description	Type of Analysis	Volume/Other
PLM16-525-01	32-5-69-204	White vibration dampening cloth	PLM	
02	32-5-69-205	White vibration dampening cloth	PLM	
03	32-5-69-206	White vibration dampening cloth	PLM	
04	32-2-70-207	Layered wall system	PLM	
05	32-2-70-208	Layered wall system	PLM	
06	32-2-70-209	Layered wall system	PLM	
07	32-2-71-210	Layered wall system	PLM	
08	32-2-71-211	Layered wall system	PLM	
09	32-2-71-212	Layered wall system	PLM	
10	32-3-72-213	Layered wall system	PLM	
11	32-3-72-214	Layered wall system	PLM	
12	32-3-72-215	Layered wall system	PLM	
13	32-6-73-216	Layered wall system	PLM	
14	32-6-73-217	Layered wall system	PLM	
15	32-6-73-218	Layered wall system	PLM	
16	32-7-74-219	Layered wall system	PLM	
17	32-7-74-220	Layered wall system	PLM	
18	32-7-74-221	Layered wall system	PLM	
19	32-7-75-222	White 2'x4' flat pinhole CT	PLM	
20	32-7-75-223	White 2'x4' flat pinhole CT	PLM	

Total Number of Samples:

20

Sample Condition (Accept/Reject):

accept

Requested Turnaround Time:

☐ RUSH \*\*\*

☐ Next Day

☒ 2 Day

\*\*\* RUSH Turnaround times required prior notification. Additional fees may apply. Call lab for more details.

Relinquished by: Michael E. Dustman via FedEx

Date/Time: 11/16/2016

Received by: [Signature]

Date/Time: 11/18/16 9:30am

Relinquished by:

Date/Time:

Received by:

Date/Time:



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Client: Family Environmental, KC

Contact: Mike Dustman

Address: 600 East 8th Street, Suite B

Kansas City, Missouri 64106

Phone #: (816) 935-2929

Fax #/Email: mdustman@familyenvironmental.com

Date Sampled: 11/16/2016

Sample Location: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73102 (1932-West Building)

Special Instructions: Positive Stop Analysis. Family Project Number: 110816-1

Lab ID (for lab use only)	Client ID	Description	Type of Analysis	Volume/Other
PLM16-525-21	32-7-75-224	White 2'x4' flat pinhole CT	PLM	
22	32-8-76-225	layered wall system	PLM	
23	32-8-76-226	layered wall system	PLM	
24	32-8-76-227	layered wall system	PLM	
25	32-9-77-228	layered wall system	PLM	
26	32-9-77-229	layered wall system	PLM	
27	32-9-77-230	layered wall system	PLM	
28	32-10-78-231	layered wall system	PLM	
29	32-10-78-232	layered wall system	PLM	
30	32-10-78-233	layered wall system	PLM	
31	32-10-79-234	Black vibration dampening cloth	PLM	
32	32-10-79-235	Black vibration dampening cloth	PLM	
33	32-10-79-236	Black vibration dampening cloth	PLM	
34	32-10-80-237	Black vinyl vibration dampening cloth	PLM	
35	32-10-80-238	Black vinyl vibration dampening cloth	PLM	
36	32-10-80-239	Black vinyl vibration dampening cloth	PLM	
37	32-12-81-240	layered wall system	PLM	
38	32-12-81-241	layered wall system	PLM	
39	32-12-81-242	layered wall system	PLM	
40	32-12-33-343	Black sink undercoating	PLM	

21-40 of 43

Total Number of Samples: 20

Sample Condition (Accept/Reject): accept

Requested Turnaround Time: ( ) RUSH \*\*\* ( ) Next Day (X) 2 Day

\*\*\* RUSH Turnaround times required prior notification. Additional fees may apply. Call lab for more details.

Relinquished by: Michael E. Dustman via FedEx

Received by: M. Underwood

Relinquished by:

Received by:

Date/Time: 11/16/2016

Date/Time: 11/16/2016 9:30am

Date/Time:

Date/Time:



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[illegible]

Date/Time: \_\_\_\_\_



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11/26/2016

Family Environmental, K.C.  
600 East 8th Street, Suite B  
Kansas City, MO 64106

Re: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73101 (1932-West Building)  
PLM16-527

Mr. Dustman,

Attached are the results of Polarized Light Microscopic (PLM) analysis for asbestos contained in the bulk sample materials submitted to this facility on 11/21/2016

Bulk samples are analyzed in accordance with USEPA test method EPA/600/M4-82-020 and EPA/600/R-93/116, which requires that distinctly different materials or layers present within a sample be analyzed and reported separately. (For measurement uncertainty, refer to table 2.1 in EPA/600/R-93/116 method.) Sometimes it is not possible to completely separate thin or strongly adhering layers, such as paint or adhesive, and a combined result is given. For some complex materials, such as drywall/tape/mud joints, a composite or overall asbestos content may be reported in addition to individual layer results. RNET, Inc. is currently accredited for bulk asbestos analysis by the National Voluntary Laboratory Accreditation Program (NVLAP) of the National Institute of Standards and Technology (NIST). Our NVLAP laboratory code number is 200448-0.

Due to the limitations of the EPA 600 Method, nonfriable organically bound materials (NOBs) such as floor tiles can be difficult to analyze via PLM. EPA recommends that all NOBs reported as non-detect by PLM analysis be further analyzed by Transmission Electron Microscopy for more definitive results. Please note that the PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation.

The analytical results provided in this report apply only to the samples submitted to the laboratory. This report is confidential. Details of this report will not be discussed with any person or agency not associated with you or your organization. This report must be reproduced in its entirety and shall not be copied in part or used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. Samples will be held for a minimum of sixty days unless longer storage is requested. If you have any questions regarding the content of this report please call RNET, Inc. at 303-296-6022.

A handwritten signature in blue ink, appearing to read "M. Urdiales", is written over a horizontal line.

Marissa Urdiales  
Asbestos Analyst  
murdiales@familyenvironmental.com  
Cell: 719-214-2837

NVLAP

NVLAP Lab Code 200448-0

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-527-01 32-14-83-346	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 65%	None Detected	Cellulose Fiber 15% Other Non-Fibrous Material 85%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 15%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-02 32-14-83-347	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 65%	None Detected	Cellulose Fiber 15% Other Non-Fibrous Material 85%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 15%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Red, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-03 32-14-83-348	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 65%	None Detected	Cellulose Fiber 15% Other Non-Fibrous Material 85%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 15%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-04 32-14-84-349	Window Glazing, Gray, Homogeneous, Resinous	LAYER 1 100%	None Detected	Other Non-Fibrous 100%



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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-527-05 32-14-85-350	Window Glazing, Gray, Homogeneous, Resinous	LAYER 1 100%	None Detected	Other Non-Fibrous 100%
PLM16-527-06 32-14-86-351	Roofing Material with Tan Pebbles, Tan, Off White, and Yellow, Non- homogeneous, Resinous/Spongy	LAYER 1 100%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-07 32-14-86-352	Roofing Material with Tan Pebbles, Tan, Off White, and Yellow, Non- homogeneous, Resinous/Spongy	LAYER 1 100%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-08 32-14-86-353	Roofing Material with Tan Pebbles, Tan, Off White, and Yellow, Non- homogeneous, Resinous/Spongy	LAYER 1 100%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-09 32-15-87-354	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous LAYER 2 Mud, White, Homogeneous, Fine Grained LAYER 3 Tape, Cream, Homogeneous, Fibrous LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 1 70% LAYER 2 10% LAYER 3 10% LAYER 4 10%	None Detected None Detected None Detected None Detected	Cellulose Fiber Other Non-Fibrous Material 10% 90% Other Non-Fibrous Material 100% Cellulose Fiber Other Non-Fibrous Material 98% 2% Other Non-Fibrous Material 100%
PLM16-527-10 32-15-87-355	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous LAYER 2 Mud, White, Homogeneous, Fine Grained LAYER 3 Tape, Cream, Homogeneous, Fibrous LAYER 4 Mud with Paint, White and Off White, Homogeneous, Fine Grained	LAYER 1 70% LAYER 2 10% LAYER 3 10% LAYER 4 10%	None Detected None Detected None Detected None Detected	Cellulose Fiber Other Non-Fibrous Material 10% 90% Other Non-Fibrous Material 100% Cellulose Fiber Other Non-Fibrous Material 98% 2% Other Non-Fibrous Material 100%



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## REPORT OF TEST RESULTS

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services

**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-527-11 32-15-87-356	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	Chrysotile	Trace	Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White and Off White, Homogeneous, Fine Grained	LAYER 4 10%	Chrysotile	Trace	Other Non-Fibrous Material	100%
PLM16-527-12 32-16-88-357	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White and Gray, Homogeneous, Fine Grained	LAYER 4 10%	None Detected		Other Non-Fibrous Material	100%
PLM16-527-13 32-16-88-358	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White and Off White, Homogeneous, Fine Grained	LAYER 4 10%	None Detected		Other Non-Fibrous Material	100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-527-14 32-16-88-359	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Off White, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-15 32-17-89-360	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Off White, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-16 32-17-89-361	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 75%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 5%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Off White, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-527-17 32-17-89-362	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 10%	None Detected		Other Non-Fibrous Material	100%
PLM16-527-18 32-17-90-362	Mud with Paint, Tan and Gray, Non- homogeneous, Fine Grained	LAYER 1 100%	Chrysotile	Trace	Other Non-Fibrous	100%
PLM16-527-19 32-17-90-363	Mud with Paint, Tan and Gray, Non- homogeneous, Fine Grained	LAYER 1 100%	Chrysotile	Trace	Other Non-Fibrous	100%
PLM16-527-20 32-17-90-364	Mud with Paint, Tan and Gray, Non- homogeneous, Fine Grained	LAYER 1 100%	Chrysotile	Trace	Other Non-Fibrous	100%
PLM16-527-21 32-17-84-365	Window Glazing, Gray, Homogeneous, Resinous/Fine Grained	LAYER 1 100%	None Detected		Other Non-Fibrous Material	100%
PLM16-527-22 32-17-85-366	Window Glazing, Gray, Homogeneous, Resinous/Fine Grained	LAYER 1 100%	None Detected		Other Non-Fibrous Material	100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-527-23 32-18-91-367	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 65%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 5%	Chrysotile	Trace	Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 20%	Chrysotile	Trace	Other Non-Fibrous Material	100%
PLM16-527-24 32-18-91-368	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 10%	None Detected		Other Non-Fibrous Material	100%
PLM16-527-25 32-18-91-369	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 65%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 5%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 15%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 15%	None Detected		Other Non-Fibrous Material	100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-527-26 32-19-92-370	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Brown, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-27 32-19-92-371	LAYER 1 Mud with Tape, White and Cream, Non-homogeneous, Fine Grained/Fibrous	LAYER 1 30%	None Detected	Cellulose Fiber 50% Other Non-Fibrous Material 50%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 30%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Wallpaper with Adhesive, Tan and Yellow, Non-homogeneous, Resinous/Fibrous	LAYER 3 30%	None Detected	Synthetic Fiber 25% Other Non-Fibrous Material 75%
	LAYER 4 Mud with Paint, White and Brown, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-28 32-19-92-372	LAYER 1 Drywall with Mud, White and Brown, Non-homogeneous, Fine Grained/Fibrous	LAYER 1 50%	None Detected	Cellulose Fiber 15% Other Non-Fibrous Material 85%
	LAYER 2 Mud with Tape, White and Cream, Homogeneous, Fine Grained/Fibrous	LAYER 2 30%	None Detected	Cellulose Fiber 50% Other Non-Fibrous Material 50%
	LAYER 3 Wallpaper with Adhesive, Tan and Yellow, Non-homogeneous, Resinous/Fibrous	LAYER 3 10%	None Detected	Synthetic Fiber 25% Other Non-Fibrous Material 75%
	LAYER 4 Mud with Paint, White and Green, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-527-29 32-19-84-373	Window Glazing, Gray and Brown, Non-homogeneous, Fine grained/Resinous	LAYER 1 100%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-30 32-20-93-374	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 15%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Off White, Homogeneous, Fine Grained	LAYER 4 15%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-31 32-20-93-375	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 15%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Off White, Homogeneous, Fine Grained	LAYER 4 15%	None Detected	Other Non-Fibrous Material 100%





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## REPORT OF TEST RESULTS

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services

**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-527-32 32-20-93-376	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 15%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Off White, Homogeneous, Fine Grained	LAYER 4 15%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-33 32-20-85-377	Window Glazing with Paint, Black, Red and Tan, Non-homogeneous, Fine Grained/Resinous	LAYER 1 100%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-34 32-20-2-378	Tar Wrap, Black, Homogeneous, Resinous	LAYER 1 100%	None Detected	Other Non-Fibrous 100%
PLM16-527-35 32-21-94-379	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 50%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 20%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, White, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Fibrous Glass 98% Other Non-Fibrous 2%
	LAYER 4 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 4 20%	None Detected	Other Non-Fibrous Material 100%



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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-527-36 32-21-94-380	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Gray, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-37 32-21-94-381	LAYER 1 Drywall with Mud, White and Brown, Non-homogeneous, Fine Grained/Fibrous	LAYER 1 40%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Tape, Cream, Homogeneous, Fibrous	LAYER 2 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 3 Mud, White, Homogeneous, Fine Grained	LAYER 3 30%	None Detected	Other Non-Fibrous Material 100%
	LAYER 4 Wallpaper with Adhesive, Off White and Yellow, Non-homogeneous, Resinous/Fibrous	LAYER 4 20%	None Detected	Synthetic Fiber 25% Other Non-Fibrous Material 75%
PLM16-527-38 32-22-95-382	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Blue, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous 2%
	LAYER 4 Mud with Paint, White and Gray, Homogeneous, Fine Grained	LAYER 4 20%	None Detected	Other Non-Fibrous Material 100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-527-39 32-22-95-383	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Tape, Blue, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous	98% 2%
	LAYER 4 Mud with Paint, White and Gray, Homogeneous, Fine Grained	LAYER 4 20%	None Detected		Other Non-Fibrous Material	100%
PLM16-527-40 32-22-95-384	LAYER 1 Mud, White, Homogeneous, Fine Grained	LAYER 1 45%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Tape, Cream, Homogeneous, Fibrous	LAYER 2 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 3 Mud with Paint, White and Gray, Homogeneous, Fine Grained	LAYER 3 45%	None Detected		Other Non-Fibrous Material	100%
PLM16-527-41 32-23-96-385	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 40%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud with Paint, White and Gray, Homogeneous, Fine Grained	LAYER 2 60%	None Detected		Other Non-Fibrous Material	100%
PLM16-527-42 32-23-96-386	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 40%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud with Paint, White and Gray, Homogeneous, Fine Grained	LAYER 2 60%	None Detected		Other Non-Fibrous Material	100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-527-43 32-23-96-387	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 50%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 20%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Gray, Homogeneous, Fine Grained	LAYER 4 20%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-44 32-24-97-388	LAYER 1 Drywall with Mud and Paint, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 5%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Off White, Homogeneous, Fine Grained	LAYER 4 25%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-45 32-24-97-389	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 50%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 20%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White and Off White, Homogeneous, Fine Grained	LAYER 4 20%	None Detected	Other Non-Fibrous Material 100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-527-46 32-24-97-390	LAYER 1 Drywall, Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 50%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 20%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 20%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-47 32-25-98-391	LAYER 1 Drywall with Mud, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Tape with Mud, White and Cream, Non-homogeneous, Fine Grained/Fibrous	LAYER 2 20%	None Detected	Cellulose Fiber 50% Other Non-Fibrous Material 50%
	LAYER 3 Wallpaper with Adhesive, Tan and Yellow, Non-homogeneous, Resinous/Fibrous	LAYER 3 10%	None Detected	Synthetic Fiber 25% Other Non-Fibrous Material 75%
	LAYER 4 Mud with Paint, White and Gray, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-48 32-25-98-392	LAYER 1 Drywall with Mud, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Tape with Mud, White and Cream, Non-homogeneous, Fine Grained/Fibrous	LAYER 2 20%	None Detected	Cellulose Fiber 50% Other Non-Fibrous Material 50%
	LAYER 3 Wallpaper with Adhesive, Tan and Yellow, Non-homogeneous, Resinous/Fibrous	LAYER 3 10%	None Detected	Synthetic Fiber 25% Other Non-Fibrous Material 75%
	LAYER 4 Mud with Paint, White and Gray, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-527-49 32-25-98-393	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 80%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud with Paint, White and Tan, Homogeneous, Fine Grained	LAYER 2 20%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-50 32-26-99-394	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 75%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Tape with Mud, White and Cream, Non-homogeneous, Fine Grained/Fibrous	LAYER 2 5%	None Detected	Cellulose Fiber 50% Other Non-Fibrous Material 50%
	LAYER 3 Mud with Paint, White, Non-homogeneous, Fine Grained	LAYER 3 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 4 Wallpaper with Adhesive, White and Off White, Non-homogeneous, Resinous/Fibrous	LAYER 4 10%	None Detected	Synthetic Fiber 25% Other Non-Fibrous Material 75%
PLM16-527-51 32-26-99-395	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 75%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Tape with Mud, White and Cream, Non-homogeneous, Fine Grained/Fibrous	LAYER 2 5%	None Detected	Cellulose Fiber 50% Other Non-Fibrous Material 50%
	LAYER 3 Mud with Paint, White, Non-homogeneous, Fine Grained	LAYER 3 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 4 Wallpaper with Adhesive, White and Off White, Non-homogeneous, Resinous/Fibrous	LAYER 4 10%	None Detected	Synthetic Fiber 25% Other Non-Fibrous Material 75%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-527-52 32-26-99-397	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 50%	None Detected		Cellulose Fiber Other Non-Fibrous Material	15% 85%
	LAYER 2 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 2 50%	None Detected		Other Non-Fibrous Material	100%
PLM16-527-53 32-27-100-398	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained	LAYER 1 70%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud, Off White, Homogeneous, Fine Grained	LAYER 2 5%	Chrysotile	Trace	Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 15%	None Detected		Other Non-Fibrous Material	100%
PLM16-527-54 32-27-100-399	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained	LAYER 1 60%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 20%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 10%	None Detected		Other Non-Fibrous Material	100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-527-55 32-27-100-400	LAYER 1 Drywall with Mud, White and Brown, Non-homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Tape, Cream, Homogeneous, Fibrous	LAYER 2 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 3 Mud with Paint, White and Red, Homogeneous, Fine Grained	LAYER 3 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 10%	None Detected		Other Non-Fibrous Material	100%
PLM16-527-56 32-28-101-401	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 15%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 15%	None Detected		Other Non-Fibrous Material	100%
PLM16-527-57 32-28-101-402	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 15%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 15%	None Detected		Other Non-Fibrous Material	100%



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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-527-58 32-28-101-403	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 15%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 15%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-59 32-29-102-404	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-60 32-29-102-405	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud, White, Homogeneous, Fine Grained	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%



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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services

**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-527-61 32-29-102-406	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 60%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud with Tape, White and Cream, Non-homogeneous, Fine Grained/Fibrous	LAYER 2 20%	None Detected		Cellulose Fiber Other Non-Fibrous Material	50% 50%
	LAYER 3 Mud, White, Homogeneous, Fine Grained	LAYER 3 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 4 Wallpaper with Adhesive, Off White and Yellow, Non-homogeneous, Resinous/Fibrous	LAYER 4 10%	None Detected		Synthetic Fiber Other Non-Fibrous Material	25% 75%
PLM16-527-62 32-30-103-407	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected		Cellulose Fiber Other Non-Fibrous Material	10% 90%
	LAYER 2 Mud with Tape, Off White and Cream, Non-homogeneous, Fine Grained/Fibrous	LAYER 2 10%	Chrysotile	Trace	Cellulose Fiber Other Non-Fibrous Material	50% 50%
	LAYER 3 Mud with Tape, Off White and Cream, Non-homogeneous, Fine Grained/Fibrous	LAYER 3 10%	Chrysotile	Trace	Cellulose Fiber Other Non-Fibrous Material	50% 50%
	LAYER 4 Mud with Paint, White and Off White, Non-homogeneous, Fine Grained/Fibrous	LAYER 4 10%	None Detected		Other Non-Fibrous Material	100%
PLM16-527-63 32-30-103-408	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 75%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White and Gray, Homogeneous, Fine Grained	LAYER 4 5%	None Detected		Other Non-Fibrous Material	100%

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**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-527-64 32-30-103-409	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 50%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud with Paint, White and Off White, Homogeneous, Fine Grained	LAYER 2 50%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-65 32-31-104-410	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Adhesive and Paint, White and Yellow, Non-homogeneous, Fine Grained/Resinous	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-66 32-31-104-411	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 70%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 10%	None Detected	Other Non-Fibrous Material 100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 4 Mud with Adhesive and Paint, White and Yellow, Non-homogeneous, Fine Grained/Resinous	LAYER 4 10%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-67 32-31-104-412	Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 100%	None Detected	Cellulose Fiber 10% Other Non-Fibrous 90%
PLM16-527-68 32-32-105-413	Mud with Paint, White and Brown, Homogeneous, Fine Grained	LAYER 1 100%	None Detected	Other Non-Fibrous 100%

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PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
PLM16-527-69 32-32-105-414	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 50%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 20%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White and Brown, Homogeneous, Fine Grained	LAYER 4 20%	None Detected		Other Non-Fibrous Material	100%
PLM16-527-70 32-32-105-415	LAYER 1 Drywall, White and Brown, Homogeneous, Fine Grained/Fibrous	LAYER 1 50%	None Detected		Other Non-Fibrous Material	100%
	LAYER 2 Mud, White, Homogeneous, Fine Grained	LAYER 2 20%	None Detected		Other Non-Fibrous Material	100%
	LAYER 3 Tape, Cream, Homogeneous, Fibrous	LAYER 3 10%	None Detected		Cellulose Fiber Other Non-Fibrous Material	98% 2%
	LAYER 4 Mud with Paint, White, Homogeneous, Fine Grained	LAYER 4 20%	None Detected		Other Non-Fibrous Material	100%
PLM16-527-71 32-31-106-416	Mud with Paint, White and Off White, Homogeneous, Fine Grained	LAYER 1 100%	None Detected		Other Non-Fibrous	100%
PLM16-527-72 32-31-106-417	Popcorn Ceiling, Gold and Off White, Homogeneous, Fibrous	LAYER 1 100%	Chrysotile	5%	Vermiculite	95%
PLM16-527-73 32-31-106-418	Mud with Paint, White, Homogeneous, Fine Grained	LAYER 1 100%	None Detected		Other Non-Fibrous	100%

**River North Environmental Testing, Inc.**3650 Chestnut Place  
Denver, CO 80216  
www.metesting.com303-297-0079  
Fax: 303-292-1451  
info@metesting.com**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-527

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-527-74 32-11-107-419	LAYER 1 Paper, Brown, Homogeneous, Fibrous	LAYER 1 50%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 2 Mud with Paint, White and Off White, Homogeneous, Fine Grained	LAYER 2 50%	None Detected	Other Non-Fibrous Material 100%
PLM16-527-75 32-11-107-420	LAYER 1 Drywall with Mud, White and Brown, Non-homogeneous, Fine Grained/Fibrous	LAYER 1 55%	None Detected	Cellulose Fiber 10% Other Non-Fibrous Material 90%
	LAYER 2 Mud with Tape, White and Cream, Non-homogeneous, Fine Grained/Fibrous	LAYER 2 10%	None Detected	Cellulose Fiber 50% Other Non-Fibrous Material 50%
	LAYER 3 Mud, White, Homogeneous, Fine Grained	LAYER 3 20%	None Detected	Other Non-Fibrous Material 100%
	LAYER 4 Wallpaper and Adhesive, Blue and Yellow, Non-homogeneous, Resinous/Fibrous	LAYER 4 15%	None Detected	Synthetic Fiber 25% Other Non-Fibrous Material 75%
PLM16-527-76 32-11-107-421	LAYER 1 Mud, White, Homogeneous, Fine Grained	LAYER 1 50%	None Detected	Other Non-Fibrous Material 100%
	LAYER 2 Wallpaper and Adhesive, Blue and Yellow, Non-homogeneous, Resinous/Fibrous	LAYER 2 50%	None Detected	Synthetic Fiber 25% Other Non-Fibrous Material 75%

ADDITIONAL COMMENTS: All separable parts or layers (except paint) within the same sample are analyzed and reported individually. Composite asbestos percent is reported, if applicable, by visual estimation.

ND = None Detected TR = Trace, less than 1.0%

**Analyst:**
  
 Marissa Urdiales
**Date:** 11/26/2016



**River North Environmental Testing, Inc.**

3650 Chestnut Place • Denver, CO 80216  
Ph: 303-297-0079 • Fax: 303-292-1451  
www.rnetesting.com • info@rnetesting.com

Client: Family Environmental, KC

Contact: Mike Dustman

Address: 600 East 8th Street, Suite B

Kansas City, Missouri 64106

Phone #: (816) 935-2929

Fax #/Email: mdustman@familyenvironmental.com

Date Sampled: 11/17/2016

Sample Location: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73102 (1932-West Building)

Special Instructions: Positive Stop Analysis. Family Project Number: 110816-1

Lab ID (for lab use only)	Client ID	Description	Type of Analysis	Volume/Other
PLM16-527-01	32-14-83-346	Layered wall system	PLM	
02	32-14-83-347	Layered wall system	PLM	
03	32-14-83-348	Layered wall system	PLM	
04	32-14-84-349	Window Glazing	PLM	
05	32-14-85-350	Window Glazing	PLM	
06	32-14-86-351	Layered roofing system	PLM	
07	32-14-86-352	Layered roofing system	PLM	
08	32-14-86-353	Layered roofing system	PLM	
09	32-15-87-354	Layered wall system	PLM	
10	32-15-87-355	Layered wall system	PLM	
11	32-15-87-356	Layered wall system	PLM	
12	32-16-88-357	Layered wall system	PLM	
13	32-16-88-358	Layered wall system	PLM	
14	32-16-88-359	Layered wall system	PLM	
15	32-17-89-360	Layered wall system	PLM	
16	32-17-89-361	Layered wall system	PLM	
17	32-17-89-362	Layered wall system	PLM	Sample # 362 used twice
18	32-17-90-362	Wall texture on plaster	PLM	Sample # 362 used twice
19	32-17-90-363	Wall texture on plaster	PLM	
20	32-17-90-364	Wall texture on plaster	PLM	

Total Number of Samples:

1-20 of 76  
20

Sample Condition (Accept/Reject):

accept

Requested Turnaround Time:

☐ RUSH \*\*\*

☐ Next Day

☒ 2 Day

\*\*\* RUSH Turnaround times required prior notification. Additional fees may apply. Call lab for more details.

Relinquished by: Michael E. Dustman via FedEx

Received by: [Signature]

Relinquished by:

Received by:

Date/Time:

11/18/2016

Date/Time:

11/21/16 9:30am

Date/Time:

Date/Time:





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Address: 600 East 8th Street, Suite B

Kansas City, Missouri 64106

Phone #: (816) 935-2929

Fax #/Email: mdustman@familyenvironmental.com

Date Sampled: 11/17/2016

Sample Location: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73102 (1932-West Building)

Special Instructions: Positive Stop Analysis. Family Project Number: 110816-1

Lab ID (for lab use only)	Client ID	Description	Type of Analysis	Volume/Other
PLM16-527-21	32-17-84-365	Window glazing	PLM	
22	32-17-85-366	Window glazing	PLM	
23	32-18-91-367	layered wall system	PLM	
24	32-18-91-368	layered wall system	PLM	
25	32-18-91-369	layered wall system	PLM	
26	32-19-92-370	layered wall system	PLM	
27	32-19-92-371	layered wall system	PLM	
28	32-19-92-372	layered wall system	PLM	
29	32-19-84-373	Window glazing	PLM	
30	32-20-93-374	layered wall system	PLM	
31	32-20-93-375	Black vibration dampening cloth	PLM	
32	32-20-93-376	Black vibration dampening cloth	PLM	
33	32-20-85-377	Window glazing	PLM	
34	32-20-2-378	Tar wrap	PLM	
35	32-21-94-379	layered wall system	PLM	
36	32-21-94-380	layered wall system	PLM	
37	32-21-94-381	layered wall system	PLM	
38	32-22-95-382	layered wall system	PLM	
39	32-22-95-383	layered wall system	PLM	
40	32-22-95-384	layered wall system	PLM	

Total Number of Samples: 21-40 of 76 20

Sample Condition (Accept/Reject): accept

Requested Turnaround Time: ( ) RUSH \*\*\* ( ) Next Day (X) 2 Day

\*\*\* RUSH Turnaround times required prior notification. Additional fees may apply. Call lab for more details.

Relinquished by: Michael E. Dustman via FedEx

Received by: [Signature]

Relinquished by: \_\_\_\_\_

Received by: \_\_\_\_\_

Date/Time: 11/18/2016

Date/Time: 11/21/16 9:30am

Date/Time: \_\_\_\_\_

Date/Time: \_\_\_\_\_



**River North Environmental Testing, Inc.**

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Client: Family Environmental, KC

Contact: Mike Dustman

Address: 600 East 8th Street, Suite B

Kansas City, Missouri 64106

Phone #: (816) 935-2929

Fax #/Email: mdustman@familyenvironmental.com

Date Sampled: 11/17/2016

Sample Location: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73102 (1932-West Building)

Special Instructions: Positive Stop Analysis. Family Project Number: 110816-1

Lab ID (for lab use only)	Client ID	Description	Type of Analysis	Volume/Other
PLM16-S27-41	32-23-96-385	Layered wall system	PLM	
42	32-23-96-386	Layered wall system	PLM	
43	32-23-96-387	Layered wall system	PLM	
44	32-24-97-388	Layered wall system	PLM	
45	32-24-97-389	Layered wall system	PLM	
46	32-24-97-390	Layered wall system	PLM	
47	32-25-98-391	Layered wall system	PLM	
48	32-25-98-392	Layered wall system	PLM	
49	32-25-98-393	Layered wall system	PLM	
50	32-26-99-394	Layered wall system	PLM	
51	32-26-99-395	Layered wall system	PLM	Sample # 396 not used
52	32-26-99-397	Layered wall system	PLM	
53	32-27-100-398	Layered wall system	PLM	
54	32-27-100-399	Layered wall system	PLM	
55	32-27-100-400	Layered wall system	PLM	
56	32-28-101-401	Layered wall system	PLM	
57	32-28-101-402	Layered wall system	PLM	
58	32-28-101-403	Layered wall system	PLM	
59	32-29-102-404	Layered wall system	PLM	
60	32-29-102-405	Layered wall system	PLM	

41-60 of 76

Total Number of Samples: 20

Sample Condition (Accept/Reject): accept

Requested Turnaround Time: ( ) RUSH \*\*\* ( ) Next Day (X) 2 Day

\*\*\* RUSH Turnaround times required prior notification. Additional fees may apply. Call lab for more details.

Relinquished by: Michael E. Dustman via FedEx

Received by: [Signature]

Relinquished by: \_\_\_\_\_

Received by: \_\_\_\_\_

Date/Time: 11/18/2016

Date/Time: 11/21/16 9:30am

Date/Time: \_\_\_\_\_

Date/Time: \_\_\_\_\_





**River North Environmental Testing, Inc.**

3650 Chestnut Place • Denver, CO 80216

Ph: 303-297-0079 • Fax: 303-292-1451

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Client: Family Environmental, KC

Contact: Mike Dustman

Address: 600 East 8th Street, Suite B

Kansas City, Missouri 64106

Phone #: (816) 935-2929

Fax #/Email: [mdustman@familyenvironmental.com](mailto:mdustman@familyenvironmental.com)

Date Sampled: 11/17/2016

Sample Location: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73102 (1932-West Building)

Special Instructions: Positive Stop Analysis. Family Project Number: 110816-1

Lab ID (for lab use only)	Client ID	Description	Type of Analysis	Volume/Other
PLM16-S27-61	32-29-102-406	Layered wall system	PLM	
62	32-30-103-407	Layered wall system	PLM	
63	32-30-103-408	Layered wall system	PLM	
64	32-30-103-409	Layered wall system	PLM	
65	32-31-104-410	Layered wall system	PLM	
66	32-31-104-411	Layered wall system	PLM	
67	32-31-104-412	Layered wall system	PLM	
68	32-32-105-413	Layered wall system	PLM	
69	32-32-105-414	Layered wall system	PLM	
70	32-32-105-415	Layered wall system	PLM	
71	32-31-106-416	Popcorn ceiling texture	PLM	
72	32-31-106-417	Popcorn ceiling texture	PLM	
73	32-31-106-418	Popcorn ceiling texture	PLM	
74	32-11-107-419	Layered wall system	PLM	
75	32-11-107-420	Layered wall system	PLM	
76	32-11-107-421	Layered wall system	PLM	

Total Number of Samples:

61-76 of 76

16

Sample Condition (Accept/Reject):

quest

Requested Turnaround Time:

( ) RUSH \*\*\*

( ) Next Day

(X) 2 Day

\*\*\* RUSH Turnaround times required prior notification. Additional fees may apply. Call lab for more details.

Relinquished by: Michael E. Dustman via FedEx

Received by:

Relinquished by:

Received by:

Date/Time:

11/18/2016

Date/Time:

Date/Time:

Date/Time:



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12/2/2016

Family Environmental, K.C.  
600 East 8th Street, Suite B  
Kansas City, MO 64106

Re: First National Center-120 N. Robinson Avenue, Oklahoma City, OK 73102 (1932-West Building)  
PLM16-537

Mr. Dustman,

Attached are the results of Polarized Light Microscopic (PLM) analysis for asbestos contained in the bulk sample materials submitted to this facility on 12/1/2016

Bulk samples are analyzed in accordance with USEPA test method EPA/600/M4-82-020 and EPA/600/R-93/116, which requires that distinctly different materials or layers present within a sample be analyzed and reported separately. (For measurement uncertainty, refer to table 2.1 in EPA/600/R-93/116 method.) Sometimes it is not possible to completely separate thin or strongly adhering layers, such as paint or adhesive, and a combined result is given. For some complex materials, such as drywall/tape/mud joints, a composite or overall asbestos content may be reported in addition to individual layer results. RNET, Inc. is currently accredited for bulk asbestos analysis by the National Voluntary Laboratory Accreditation Program (NVLAP) of the National Institute of Standards and Technology (NIST). Our NVLAP laboratory code number is 200448-0.

Due to the limitations of the EPA 600 Method, nonfriable organically bound materials (NOBs) such as floor tiles can be difficult to analyze via PLM. EPA recommends that all NOBs reported as non-detect by PLM analysis be further analyzed by Transmission Electron Microscopy for more definitive results. Please note that the PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation.

The analytical results provided in this report apply only to the samples submitted to the laboratory. This report is confidential. Details of this report will not be discussed with any person or agency not associated with you or your organization. This report must be reproduced in its entirety and shall not be copied in part or used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. Samples will be held for a minimum of sixty days unless longer storage is requested. If you have any questions regarding the content of this report please call RNET, Inc. at 303-296-6022.

Marissa Urdiales  
Asbestos Analyst  
murdiales@familyenvironmental.com  
Cell: 719-214-2837



NVLAP Lab Code 200448-0

**River North Environmental Testing, Inc.**

3650 Chestnut Place  
Denver, CO 80216  
www.rnetesting.com

303-297-0079  
Fax: 303-292-1451  
info@rnetesting.com

**REPORT OF TEST RESULTS**

PLM Bulk Asbestos Analysis

NVLAP Lab Code 200448-0

**CLIENT:** Family Environmental Compliance Services**PROJECT:** PLM16-537

Lab-ID No. Sample ID	Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components (%)
PLM16-537-01 32-4-108-422	LAYER 1 Woven Material, Tan, Non-homogeneous, Fibrous	LAYER 1 20%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 2 Paper, Brown, Non-homogeneous, Fibrous	LAYER 2 20%	None Detected	Cellulose Fiber 98% Other Non-Fibrous Material 2%
	LAYER 3 Mastic, Black, Non-homogeneous, Resinous	LAYER 3 40%	None Detected	Other Non-Fibrous Material 100%
	LAYER 4 Insulation, Brown, Non-homogeneous, Fibrous	LAYER 4 20%	None Detected	Fibrous Glass 98% Other Non-Fibrous Material 2%

ADDITIONAL COMMENTS: All separable parts or layers (except paint) within the same sample are analyzed and reported individually. Composite asbestos percent is reported, if applicable, by visual estimation.

ND = None Detected TR = Trace, less than 1.0%

**Analyst:**  
Marissa Urdiales**Date:** 12/02/2016



## **APPENDIX E**

### **POSITIVE ACM PHOTOGRAPHIC DOCUMENTATION**



**Positive ACM– West Building-1931, 120 N. Robinson Avenue, Oklahoma City, Oklahoma 73102**

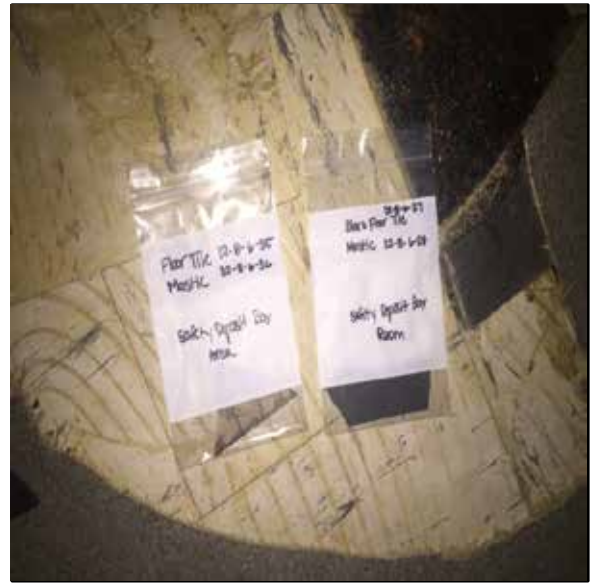


<b>Photograph Number:</b>	1	<b>Date:</b>	11/14/2016	<b>Photograph Number:</b>	2	<b>Date:</b>	11/14/2016
<b>Description:</b>	Asbestos-containing red floor tile 9"x9" with black mastic in the basement. Samples 7, 8, 9.			<b>Description:</b>	Asbestos-containing white 9"x9" floor tile with black mastic in the basement. Samples 10, 11, 12.		
<b>Client:</b>	City of Oklahoma City, OK			<b>Client:</b>	City of Oklahoma City, OK		
<b>Photographer:</b>	Jamie Marshall			<b>Photographer:</b>	Jamie Marshall		

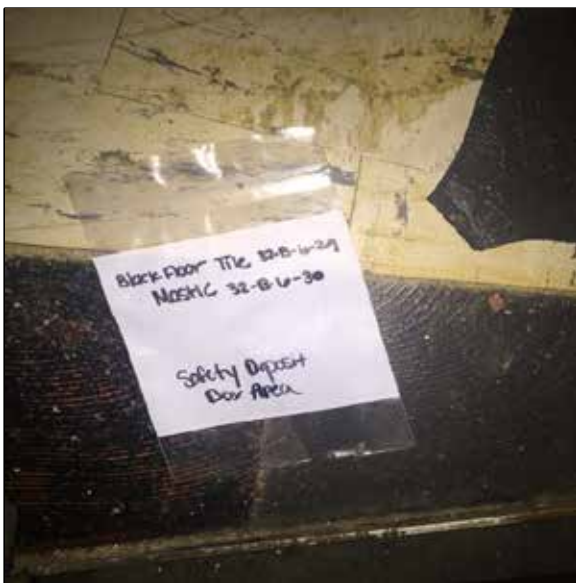


<b>Photograph Number:</b>	3	<b>Date:</b>	11/14/2016	<b>Photograph Number:</b>	4	<b>Date:</b>	11/14/2016
<b>Description:</b>	Asbestos-containing black 9"x9" floor tile with black mastic in the basement. Samples 16, 17, 18.			<b>Description:</b>	Asbestos-containing white marbled 12"x12" floor tile with black mastic in the basement. Samples 19, 20.		
<b>Client:</b>	City of Oklahoma City, OK			<b>Client:</b>	City of Oklahoma City, OK		
<b>Photographer:</b>	Jamie Marshall			<b>Photographer:</b>	Jamie Marshall		

**Positive ACM– West Building-1931, 120 N. Robinson Avenue, Oklahoma City, Oklahoma 73102**



<b>Photograph Number:</b>	5	<b>Date:</b>	11/14/2016	<b>Photograph Number:</b>	6	<b>Date:</b>	11/15/2016
<b>Description:</b>	Asbestos-containing tan 12"x12" floor tile with black mastic in the basement. Samples 24, 25, 26.			<b>Description:</b>	Asbestos-containing grey 9"x9" floor tile with black mastic in the basement. Samples 27, 28, 29.		
<b>Client:</b>	City of Oklahoma City, OK			<b>Client:</b>	City of Oklahoma City, OK		
<b>Photographer:</b>	Jamie Marshall			<b>Photographer:</b>	Jamie Marshall		



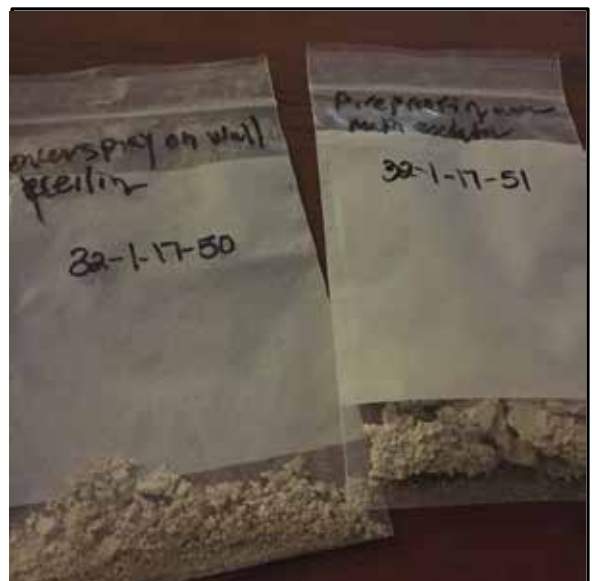
<b>Photograph Number:</b>	7	<b>Date:</b>	11/15/2016	<b>Photograph Number:</b>	8	<b>Date:</b>	11/16/2016
<b>Description:</b>	Asbestos-containing layered wall system in the basement. Sample 30.			<b>Description:</b>	Asbestos-containing layered wall system in the basement. Sample 32.		
<b>Client:</b>	City of Oklahoma City, OK			<b>Client:</b>	City of Oklahoma City, OK		
<b>Photographer:</b>	Jamie Marshall			<b>Photographer:</b>	Jamie Marshall		



**Positive ACM– West Building-1931, 120 N. Robinson Avenue, Oklahoma City, Oklahoma 73102**



<b>Photograph Number:</b>	9	<b>Date:</b>	11/16/2016	<b>Photograph Number:</b>	10	<b>Date:</b>	11/16/2016
<b>Description:</b>	Asbestos-containing layered wall system on the 1 <sup>st</sup> floor. Samples 35, 36, 37.			<b>Description:</b>	Asbestos-containing black mastic and carpet glue on the 1 <sup>st</sup> floor. Samples 44, 45, 46.		
<b>Client:</b>	City of Oklahoma City, OK			<b>Client:</b>	City of Oklahoma City, OK		
<b>Photographer:</b>	Jamie Marshall			<b>Photographer:</b>	Jamie Marshall		

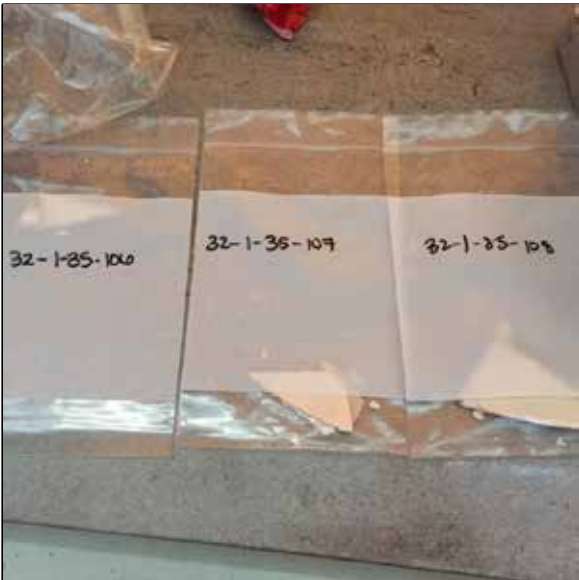


<b>Photograph Number:</b>	11	<b>Date:</b>	11/16/2016	<b>Photograph Number:</b>	12	<b>Date:</b>	11/16/2016
<b>Description:</b>	Asbestos-containing mirror mastic on the 1 <sup>st</sup> floor. Samples 47, 48, 49.			<b>Description:</b>	Asbestos-containing fireproofing overspray on the 1 <sup>st</sup> floor. Sample 50.		
<b>Client:</b>	City of Oklahoma City, OK			<b>Client:</b>	City of Oklahoma City, OK		
<b>Photographer:</b>	Jamie Marshall			<b>Photographer:</b>	Jamie Marshall		

**Positive ACM– West Building-1931, 120 N. Robinson Avenue, Oklahoma City, Oklahoma 73102**

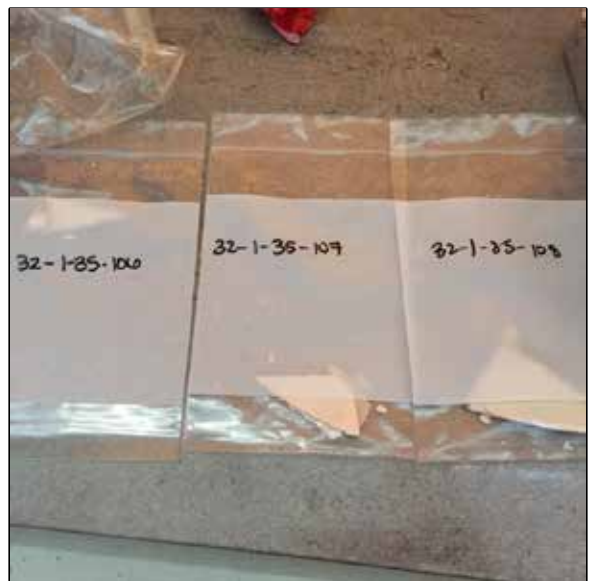


<b>Photograph Number:</b>		13	<b>Date:</b>		11/16/2016
<b>Description:</b>		Asbestos-containing black mastic and carpet glue on 1 <sup>st</sup> floor. Sample 60.			
<b>Client:</b>		City of Oklahoma City, OK			
<b>Photographer:</b>		Jamie Marshall			
<div>NO PHOTOGRAPH COLLECTED</div>					

<b>Photograph Number:</b>		14	<b>Date:</b>		11/16/2016
<b>Description:</b>		Asbestos-containing black mastic and carpet glue on the 1 <sup>st</sup> floor. Samples 61, 62.			
<b>Client:</b>		City of Oklahoma City, OK			
<b>Photographer:</b>		Jamie Marshall			
					

<b>Photograph Number:</b>		15	<b>Date:</b>		11/16/2016
<b>Description:</b>		Asbestos-containing black mastic on the first floor. Sample 84..			
<b>Client:</b>		City of Oklahoma City, OK			
<b>Photographer:</b>		Jamie Marshall			

<b>Photograph Number:</b>		16	<b>Date:</b>		11/16/2016
<b>Description:</b>		Asbestos-containing beige floor tile and black mastic on the 1 <sup>st</sup> floor. Samples 106, 107, 108.			
<b>Client:</b>		City of Oklahoma City, OK			
<b>Photographer:</b>		Jamie Marshall			



**Positive ACM– West Building-1931, 120 N. Robinson Avenue, Oklahoma City, Oklahoma 73102**

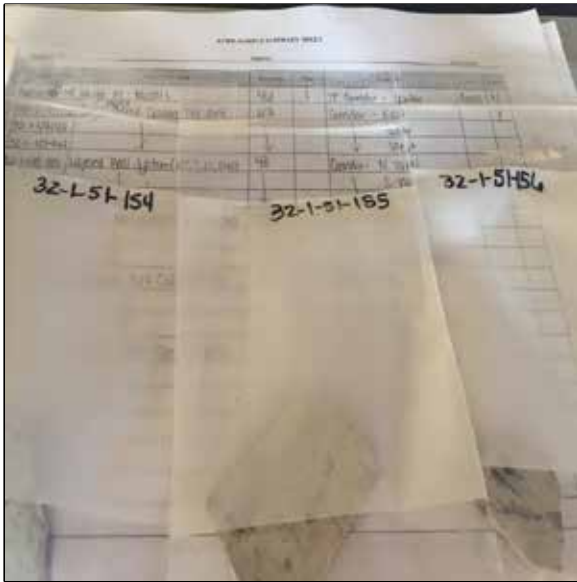


<b>Photograph Number:</b>	17	<b>Date:</b>	11/16/2016	<b>Photograph Number:</b>	18	<b>Date:</b>	11/16/2016
<b>Description:</b>	Asbestos-containing pink floor tile with yellow and black mastic on the 1 <sup>st</sup> floor. Samples 127, 128, 129.			<b>Description:</b>	Asbestos-containing beige floor tile with black and yellow mastic on the 1 <sup>st</sup> floor. Samples 130, 131, 132.		
<b>Client:</b>	City of Oklahoma City, OK			<b>Client:</b>	City of Oklahoma City, OK		
<b>Photographer:</b>	Jamie Marshall			<b>Photographer:</b>	Jamie Marshall		

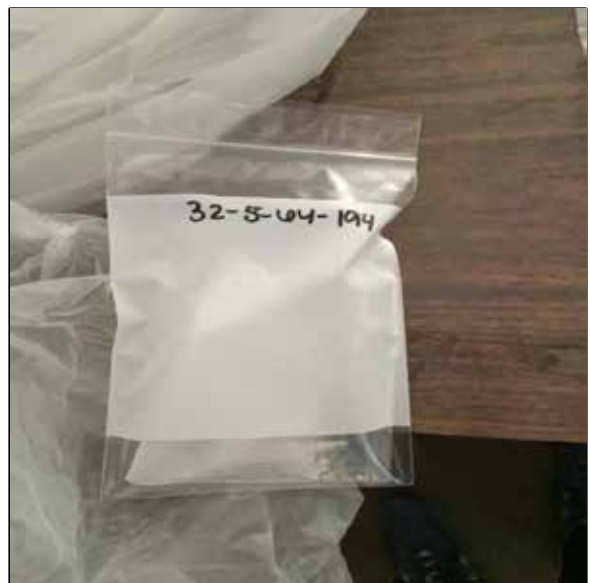


<b>Photograph Number:</b>	19	<b>Date:</b>	11/16/2016	<b>Photograph Number:</b>	20	<b>Date:</b>	11/16/2016
<b>Description:</b>	Asbestos-containing 12"x12" beige floor tile with black and yellow mastic on 1 <sup>st</sup> floor. Samples 139, 140.			<b>Description:</b>	Asbestos-containing beige 12"x12" floor tile with black and yellow mastic on the 1 <sup>st</sup> floor. Samples 141.		
<b>Client:</b>	City of Oklahoma City, OK			<b>Client:</b>	City of Oklahoma City, OK		
<b>Photographer:</b>	Jamie Marshall			<b>Photographer:</b>	Jamie Marshall		

**Positive ACM– West Building-1931, 120 N. Robinson Avenue, Oklahoma City, Oklahoma 73102**



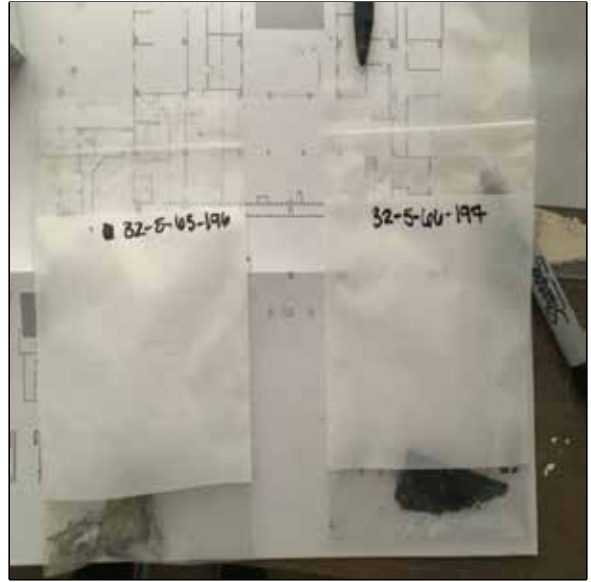
<b>Photograph Number:</b>	21	<b>Date:</b>	11/16/2016	<b>Photograph Number:</b>	22	<b>Date:</b>	11/16/2016
<b>Description:</b>	Asbestos-containing white 12"x12" marbled floor tile and yellow mastic on the first floor. Samples 154, 155, 156.			<b>Description:</b>	Asbestos-containing green speckle 11' with black mastic on the first floor. Samples 172, 173, 174.		
<b>Client:</b>	City of Oklahoma City, OK			<b>Client:</b>	City of Oklahoma City, OK		
<b>Photographer:</b>	Jamie Marshall			<b>Photographer:</b>	Jamie Marshall		




<b>Photograph Number:</b>	23	<b>Date:</b>	11/16/2016	<b>Photograph Number:</b>	24	<b>Date:</b>	11/16/2016
<b>Description:</b>	Asbestos-containing layered wall system on the 4 <sup>th</sup> floor. Samples 181, 182, 183.			<b>Description:</b>	Asbestos-containing layered wall system on the 5 <sup>th</sup> floor. Samples 193, 194.		
<b>Client:</b>	City of Oklahoma City, OK			<b>Client:</b>	City of Oklahoma City, OK		
<b>Photographer:</b>	Jamie Marshall			<b>Photographer:</b>	Jamie Marshall		



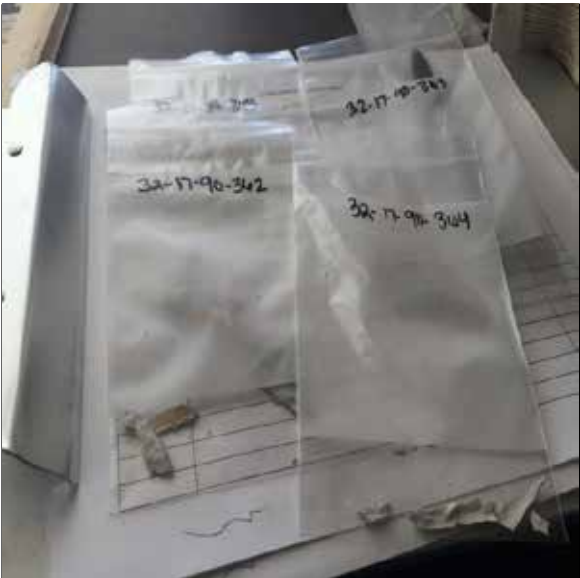
**Positive ACM– West Building-1931, 120 N. Robinson Avenue, Oklahoma City, Oklahoma 73102**



<b>Photograph Number:</b>	25	<b>Date:</b>	11/16/2016	<b>Photograph Number:</b>	26	<b>Date:</b>	11/16/2016
<b>Description:</b>	Layered wall system on the 5 <sup>th</sup> floor. Sample 195.			<b>Description:</b>	Asbestos-containing white cement board canter on the 5 <sup>th</sup> floor. Sample 196.		
<b>Client:</b>	City of Oklahoma City, OK			<b>Client:</b>	City of Oklahoma City, OK		
<b>Photographer:</b>	Jamie Marshall			<b>Photographer:</b>	Jamie Marshall		
				<div>NO PHOTOGRAPH COLLECTED</div>			
<b>Photograph Number:</b>	27	<b>Date:</b>	11/16/2016	<b>Photograph Number:</b>	28	<b>Date:</b>	11/16/2016
<b>Description:</b>	Asbestos-containing gray cement board. Sample 196 and 197.			<b>Description:</b>	Asbestos-containing layered wall system. Sample 340, 341, and 342.		
<b>Client:</b>	City of Oklahoma City, OK			<b>Client:</b>	City of Oklahoma City, OK		
<b>Photographer:</b>	Jamie Marshall			<b>Photographer:</b>	Jamie Marshall		

**Positive ACM– West Building-1931, 120 N. Robinson Avenue, Oklahoma City, Oklahoma 73102**



<b>Photograph Number:</b>	29	<b>Date:</b>	11/16/2016	<b>Photograph Number:</b>	30	<b>Date:</b>	11/16/2016
<b>Description:</b>	Asbestos-containing sink undercoating black. Sample 343.			<b>Description:</b>	Asbestos-containing layered wall system. Sample 344, 345 and 346.		
<b>Client:</b>	City of Oklahoma City, OK			<b>Client:</b>	City of Oklahoma City, OK		
<b>Photographer:</b>	Jamie Marshall			<b>Photographer:</b>	Jamie Marshall		
<div>NO PHOTOGRAPH COLLECTED</div>							
<b>Photograph Number:</b>	31	<b>Date:</b>	11/16/2016	<b>Photograph Number:</b>	32	<b>Date:</b>	11/16/2016
<b>Description:</b>	Asbestos-containing layered wall system. Sample 356.			<b>Description:</b>	Asbestos-containing wall texture on plaster. Sample 362, 363, and 364.		
<b>Client:</b>	City of Oklahoma City, OK			<b>Client:</b>	City of Oklahoma City, OK		
<b>Photographer:</b>	Jamie Marshall			<b>Photographer:</b>	Jamie Marshall		



**Positive ACM– West Building-1931, 120 N. Robinson Avenue, Oklahoma City, Oklahoma 73102**



<b>Photograph Number:</b>		33	<b>Date:</b>		11/16/2016	<b>Photograph Number:</b>		34	<b>Date:</b>		11/16/2016						
<b>Description:</b>		Asbestos-containing layered wall system. Sample 367.				<b>Description:</b>		Asbestos-containing layered wall system. Sample 398.									
<b>Client:</b>		City of Oklahoma City, OK				<b>Client:</b>		City of Oklahoma City, OK									
<b>Photographer:</b>		Jamie Marshall				<b>Photographer:</b>		Jamie Marshall									
						<div>NO PHOTOGRAPH COLLECTED</div>											
<b>Photograph Number:</b>												35	<b>Date:</b>		11/16/2016		
<b>Description:</b>		Asbestos-containing layered wall system. Sample 407.										<b>Description:</b>		Asbestos-containing popcorn ceiling texture. Sample 417.			
<b>Client:</b>		City of Oklahoma City, OK										<b>Client:</b>		City of Oklahoma City, OK			
<b>Photographer:</b>		Jamie Marshall				<b>Photographer:</b>		Jamie Marshall									

# Asbestos Survey

First National Center Update  
120 North Robinson  
Oklahoma City, Oklahoma

June 2, 2016

Terracon Project No. 03167033



**Prepared for:**  
NE Development Company LLC  
Lewisville, Texas

**Prepared by:**  
Terracon Consultants, Inc.  
Oklahoma City, OK

[terracon.com](http://terracon.com)

**Terracon**

Environmental



Facilities



Geotechnical



Materials

June 2, 2016

NE Development Company LLC  
420 Southfork Drive  
Lewisville, Texas 75057



Attn: Ken Lokey  
P: (972) 221-0095  
E: ken@lokeyco.com

Re: Asbestos Survey  
First National Center Update  
120 North Robinson  
Oklahoma City, Oklahoma 73102  
Terracon Project No. 03167033

Dear Mr. Lokey,

Terracon Consultants, Inc. (Terracon) is pleased to submit the attached report for the above referenced site to NE Development Company LLC. The purpose of this report is to present the results of an asbestos survey performed on January 26 through February 24, 2016. This survey was conducted in general accordance with our proposal dated January 21, 2016. We understand that this survey was requested due to planned demolition and renovation activities within the above referenced center.

Based on laboratory analysis, asbestos containing materials were identified. Please refer to the attached report for details.

Terracon appreciates the opportunity to provide this service to NE Development Company LLC. If you have any questions regarding this report please contact the undersigned at 405-525-0453.

Sincerely,  
Terracon Consultants, Inc.

  
Stacey C Fowler  
Staff Industrial Hygienist

  
Frank M. Reiber *for*  
Senior Project Industrial Hygienist

Terracon Consultants, Inc. 4701 N Stiles Ave. Oklahoma City, OK 73105  
P 405-525-0453 F 405-557-0549 [terracon.com](http://terracon.com)



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**APPENDIX A IDENTIFIED ASBESTOS CONTAINING MATERIALS BY HOMOGENEOUS AREA (HA)**

**APPENDIX B ASBESTOS SURVEY SAMPLE LOCATION SUMMARY**

**APPENDIX C ASBESTOS ANALYTICAL LABORATORY DATA**

**APPENDIX D LICENSES AND CERTIFICATIONS**

**APPENDIX E COST ESTIMATE FOR ABATEMENT**

**APPENDIX F TERRACON ASBESTOS SURVEY REPORT 03147033**

## EXECUTIVE SUMMARY

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey at the First National Center located at 120 North Robinson, Oklahoma City, Oklahoma. We understand this asbestos survey was requested due to the planned demolition and renovation activities within the on-site buildings. The purpose of this survey was to sample and identify suspect asbestos-containing materials (ACM) and provide information regarding the identity, location, condition, and approximate quantities of ACM in exterior building components. The survey was performed on January 26 through February 24, 2016 by an AHERA accredited and State of Oklahoma licensed asbestos inspectors in general accordance with our proposal dated January 21, 2016 and the sampling protocols established in United States Environmental Protection Agency (USEPA) 40 Code of Federal Regulations (CFR) Part 763, Subpart E, known as the Asbestos Hazard Emergency Response Act, (AHERA). Terracon collected 384 bulk samples from 194 homogeneous areas of suspect ACM.

The following asbestos containing materials were identified as a result of laboratory analysis or assumed to be asbestos containing (Tables includes results from Terracon's 2014 Asbestos Survey 03147033):

### West

Material Description	Material Location	Estimated Quantity*
Friable Ceiling Thermal Plaster	Boiler Room Ceiling	10,500 Sq. Ft.
Acoustical Ceiling	Vault Safe Deposit Area, 4 <sup>th</sup> Floor southeast. 31 <sup>st</sup> Floor, 31 <sup>st</sup> Floor Attic & 32 <sup>nd</sup> Floor	
Brown Mastic Behind 1'x1' Ceiling Tile	Behind 1'x1' Ceiling Tiles Throughout	52,000 Sq. Ft.
Duct Paper Tape and fiberglass	13 <sup>th</sup> Floor, 31 <sup>st</sup> Floor, and 31 <sup>st</sup> Floor attic	2500 Sq. Ft. of Paper Tape associated with 8,500 Sq. Ft. of fiberglass insulation
Piping / Fittings (steam, domestic water, drain)	Throughout building	31,000 Ln. Ft. 3,500 Fittings
Transite ®	16 <sup>th</sup> Floor back of elevator room doors, Box around Radiators, Cooling Tower, counter tops	800 Sq. Ft.

## Asbestos Survey

First National Center Update ■ Oklahoma City, Oklahoma

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### West

Material Description	Material Location	Estimated Quantity*
Tank Insulation	Drinking water Tank 17 <sup>th</sup> and 33 <sup>rd</sup> Floor	15,000 Sq. Ft.
Duct Insulation	12 <sup>th</sup> -27 <sup>th</sup> Floors and 31 <sup>st</sup> Floor Attic AHU Rooms, Boiler Duct	
Hot Water Tanks (3)	Boiler Room	
Breech	Boiler Room	
DA Tank	Boiler Room	
Sand Filler Tank	Boiler Room	
Pump Tank	Boiler Room	
Joint Compound	Scattered locations	100,000 Sq. Ft.
Floor Tile and Mastic	Throughout Building	255,000 Sq. Ft.
2' X 4' Ceiling Tile	7th Floor Room 703, 29th Floor Kitchen	2,000 Sq. Ft.
1' X 1' Galaxy Ceiling Tile	20th Floor East Center Room, 26 <sup>th</sup> floor	
Window Caulk	Windows	1,700 Windows
Paper Back on radiator	8th Floor NE Room, 27th Floor W Center, and 27th Floor SW Office Area	250 Sq. Ft.
Fire Door	Stair Doors and Stairway Restroom Doors	100 Doors
Mirror Mastic	Various Tenant Spaces	5,000 Sq. Ft.
Roofing Materials	Roof	21,000 Sq. Ft.

### Center

Material Description	Material Location	Estimated Quantity*
Floor Tile and Mastic	Throughout Building	150,000 Sq. Ft.
Duct Paper Tape	14 <sup>th</sup> Floor, 11 <sup>th</sup> Floor, Risers	4,000 Sq. Ft. Paper Tape on 4,500 Ln. Ft. of Duct covering
Piping / Fittings (steam, domestic water, chilled water, drain)	Mechanical And AHU Rooms, Pipe Chases Throughout Building	4,765 Ln. Ft. with 2,360 associated fittings
Gasket	Pump Room 14 <sup>th</sup> Floor	20 Ln. Ft.



## Asbestos Survey

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### Center

Material Description	Material Location	Estimated Quantity*
Chillers	Pump Room 14 <sup>th</sup> Floor	200 Sq. Ft
Duct Plaster Insulation	13th Floor AHU	700 Sq. Ft.
Joint Compound	1st Floor Hallmark, 5th Floor, 10th Floor, 11 <sup>th</sup> Floor, 12th Floor, 13th Floor, and 14 <sup>th</sup> Floor	100,000 Sq. Ft.
Window Caulk	Windows Throughout	300 windows
Transite ®	Peg Board – 4 <sup>th</sup> floor, 14 <sup>th</sup> Floor Mechanical Room Bathroom. Ground Floor Driveway	1,730 Sq. Ft.
Acoustic Plaster	Basement – west of vault	2,030 Sq. Ft.
Fire Doors	Throughout	60 Doors
Roofing Materials	Roof	14,000 SF. Ft.

### East

Material Description	Material Location	Estimated Quantity*
Floor Tile and Mastic	Throughout	50,000 Sq. Ft.
Sheet Vinyl Beneath Floor Tile	9 <sup>th</sup> Floor	430 Sq. Ft.
Piping / Fittings (steam, Domestic Water, Drain and Chilled Water)	Throughout	1,300 Ln. Ft. and 2,000 Fittings
Transite ®	Window Panels and Stored Panels	10,600 Sq. Ft. 200 Sq. Ft. (stored)
Joint Compound	Basement, 2nd – 15 <sup>th</sup> Floor Original Walls	131,250 Sq. Ft.
2' X 2' Ceiling Tile	Basement, 9-11 <sup>th</sup> Floors	85,000 Sq. Ft.
Fire Door	Stairway Doors	42 Doors
Paper Gaskets	14th Floor Boiler	15 Sq. Ft.
Spray Applied Fire Proofing	3 <sup>rd</sup> – 7 <sup>th</sup> , 12 <sup>th</sup> - 14th Floor Perimeter Columns, stairwells and some elevator lobby areas, Sub-basement, Basement-East, 8 <sup>th</sup> -11 <sup>th</sup> Floors Throughout, 14 <sup>th</sup> Floor Boiler Room, & 15 <sup>th</sup> Floor Mechanical Room, Three East Elevator Shafts And Two Freight Elevator Shafts	480,000 Sq. Ft.
Roofing Materials	Roof	27,000 Sq. Ft.

## Asbestos Survey

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### FRIABLE ACMs

#### **Fireproofing, Ceiling Tiles, Acoustical and Friable Plaster Ceilings, Duct and Radiator Tape, Pipe Insulations, Pipe Fittings, AHU, Duct and Vessel Insulation**

The fireproofing, 1'x1' ceiling tiles, 2'x4' ceiling tiles, acoustical ceiling, friable plaster ceiling, duct tape, pipe insulations, fittings, AHU, duct and vessel insulation are considered RACM and must be removed by a qualified asbestos abatement contractor prior to demolition of the structure in accordance with a project design prepared by an Oklahoma licensed Project Designer.

### NON-FRIABLE ACMs

#### **Floor Tile and Mastics**

Floor tiles and mastics (Category I non-friable materials) were identified and/or assumed at the subject site and observed in good condition. According to the EPA, non-friable floor coverings, tar-impregnated roofing felts, asphalt tiles, asphalts and mastics that are non-friable and will remain non-friable during proposed demolition methods are exempt from NESHAP requirements and need not be removed prior to demolition.

This exemption assumes the demolition of the building does not include deliberate burning or activities that powder or otherwise damage and render the materials friable. Additionally, the building debris need not be disposed of as asbestos-containing waste material provided such Category I ACM remains non-friable. However, Terracon recommends the landfill operator be notified that construction debris contains non-friable asbestos-containing materials.

Removal prior to renovation may be performed by an Oklahoma licensed asbestos abatement contractor, or general contractor personnel who have received a minimum 8-hour training on Class II asbestos-containing materials. The removal of the material should also be observed and performed under the guidance of a 'competent person' as defined by the Occupational Safety and Health Administration (OSHA) in 29 Code of Federal Regulations (CFR) 1926.1101 Asbestos.

#### **Non-friable Sheet Vinyl Flooring**

Non-friable asbestos-containing sheet-vinyl flooring was identified in the East building on the 9<sup>th</sup> floor. According to the ODOL, sheet-vinyl flooring products that are non-friable, in good condition and will remain non-friable during proposed demolition methods need not be removed prior to demolition. However, prior to renovation the material must be removed by a qualified asbestos abatement contractor prior to demolition of the structure in accordance with a project design prepared by an Oklahoma licensed Project Designer.

#### **Transite®**

The Transite® is considered a Category II non-friable ACM; however, the material is considered likely to become friable during the demolition operation and must be removed prior to demolition of the structure. Removal may be performed by an Oklahoma licensed asbestos abatement contractor, or general contractor personnel who have received a minimum 8-hour training on Class

## **Asbestos Survey**

First National Center Update ■ Oklahoma City, Oklahoma  
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II asbestos-containing materials. The removal of the material should also be observed and performed under the guidance of a 'competent person' as defined by the Occupational Safety and Health Administration (OSHA) in 29 Code of Federal Regulations (CFR) 1926.1101 Asbestos.

### **Joint Compound**

The asbestos-containing joint compound is a Category II non-friable ACM in its present state; however, has a high probability of becoming friable during demolition. Therefore, according to Oklahoma Department of Labor (ODOL) regulations, the joint compound must be removed by a qualified asbestos abatement contractor prior to demolition of the structure in accordance with a project design prepared by an Oklahoma licensed Project Designer.

### **Fire Doors**

Fire doors were identified or assumed to contain asbestos. Removal prior to renovation may be performed by an Oklahoma licensed asbestos abatement contractor, or general contractor personnel who have received a minimum 8-hour training on Class II asbestos-containing materials. The removal of the material should also be observed and performed under the guidance of a 'competent person' as defined by the Occupational Safety and Health Administration (OSHA) in 29 Code of Federal Regulations (CFR) 1926.1101 Asbestos.

### **Asphaltic Roofing Materials**

Asbestos-containing asphaltic roofing materials (Category I non-friable materials) were assumed at the subject site. According to the Environmental Protection Agency (EPA), tar-impregnated roofing felts, asphalt tiles, asphalts and mastics that are non-friable and will remain non-friable during proposed demolition methods are exempt from requirements under the National Emission Standard for Hazardous Air Pollutants (NESHAP) and need not be removed prior to demolition. As with floor tile and mastics, this exemption assumes the demolition of the roof system does not include deliberate burning or activities that powder or otherwise damage and render the materials friable. Additionally, the debris need not be disposed of as asbestos-containing waste material provided such Category I ACM remains non-friable. However, Terracon recommends the landfill operator be notified that construction debris contains non-friable asbestos-containing materials.

At your request, Terracon can provide a proposal for developing asbestos abatement specifications (project design) and for performing abatement oversight and air monitoring.

**ASBESTOS SURVEY**  
**First National Center Update**  
**120 North Robinson, Oklahoma City, Oklahoma**  
**Terracon Project No. 03167033**  
**June 2, 2016**

## **1.0 INTRODUCTION**

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of the First National Center located at 120 North Robinson, Oklahoma City, Oklahoma. The survey was conducted on January 26, through February 24, 2016, by an AHERA accredited and State of Oklahoma licensed asbestos in general accordance with Terracon Proposal No. P03167033 dated January 21, 2016. Interior and exterior building components were surveyed, and homogeneous areas of suspect asbestos-containing materials (ACM) were visually identified and documented. Although reasonable effort was made to survey accessible suspect materials, additional suspect but unsampled materials could be located in walls, in voids, or in other concealed areas. Suspect ACM samples were collected in general accordance with the sampling protocols outlined in United States Environmental Protection Agency (USEPA) 40 Code of Federal Regulations (CFR) Part 763, Subpart E, known as the Asbestos Hazard Emergency Response Act (AHERA). Samples were delivered to an accredited laboratory for analysis by Polarized Light Microscopy (PLM).

### **1.1 Project Objective**

We understand this asbestos survey was requested due to the planned demolition and renovation of the on-site buildings to satisfy requirements of the USEPA 40 CFR Part 61, Subpart M, the National Emission Standards for Hazardous Air Pollutants (NESHAP).

### **1.2 Reliance**

This report is for the exclusive use of NE Development Company LLC for the project being discussed. Reliance by any other party on this report is prohibited without written authorization of Terracon and NE Development Company LLC. Reliance on this report by NE Development Company LLC and all authorized parties will be subject to the terms, conditions, and limitations stated in the proposal, this report, and Terracon's Agreement for Services. The limitations of liability defined in Terracon's Agreement for Services is the aggregate limit of Terracon's liability to NE Development Company LLC.

## **2.0 BUILDING DESCRIPTION**

The First National Center consists of three interconnected buildings, referred to as the West, Center, and East Buildings. The West building is a 33 floor approximately 451,086 square foot high-rise building reportedly built in 1931. The Center building is a 14 floor approximately 201,915 square foot mid-rise building reportedly built in 1956. The East building is a 15 floor approximately 346,650 square foot mid-rise building reportedly built in 1974. The First National Center was mostly vacant at the time of the survey.

## **3.0 FIELD ACTIVITIES**

The survey was conducted by Ms. Stacey Fowler, Mr. Patrick Rice, Mr. Stuart Shumate, Mr. Tim Easley and Mr. Mitch Reiber AHERA accredited asbestos inspectors. Samples were collected by Ms. Stacey Fowler, Mr. Patrick Rice, and Mr. Stuart Shumate State of Oklahoma licensed asbestos inspectors. A copy of Ms. Fowler, Mr. Rice and Mr. Shumate's State of Oklahoma asbestos inspector license is attached as Appendix D. The survey was conducted in general accordance with the sample collection protocols established in USEPA 40 CFR Part 763, Subpart E, Section 763.86, AHERA. A summary of survey activities is provided below.

### **3.1 Visual Assessment**

Survey activities were initiated with visual observation of the exterior of the building to identify homogeneous areas of suspect ACM. A homogeneous area (HA) consists of building materials that appear similar throughout in terms of color and texture with consideration given to the date of application. Interior assessment was conducted in visually accessible areas of the building proposed for demolition and renovation.

### **3.2 Physical Assessment**

A physical assessment of each HA of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the USEPA as a material which can be crumbled, pulverized, or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

### **3.3 Sample Collection**

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance with USEPA AHERA sampling protocols. Samples of suspect materials were collected from randomly selected locations in each homogeneous area. Bulk samples were

## Asbestos Survey

First National Center Update ■ Oklahoma City, Oklahoma  
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collected using wet methods as applicable to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker. The selection of sample locations and frequency of sampling were based on Terracon's observations and the assumption that like materials in the same area are homogeneous in content.

Terracon collected 384 bulk samples from 194 homogeneous areas of suspect ACM. In 2014, Terracon collected 492 samples from 210 homogeneous areas of suspect ACM. A summary of suspect ACM samples collected during the survey is included as Appendix B. Terracon's 2014 Asbestos Survey Report 03147033 is attached in Appendix E.

### 3.4 Sample Analysis

Bulk samples were submitted under chain of custody to International Asbestos Testing Laboratories of Mount Laurel, NJ for analysis by polarized light microscopy with dispersion staining techniques per USEPA methodology 600/R-93/116. The percentage of asbestos, where applicable, was determined by microscopic visual estimation. International Asbestos Testing Laboratories is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP) Accreditation No. 101165-0.

## 4.0 REGULATORY OVERVIEW

The Oklahoma Department of Environmental Quality (DEQ) adopted the NESHAP regulations (OAC 252:100, 41-15) for asbestos control in Oklahoma. The owner or operator must provide DEQ with written notification at least 10 working days prior to the commencement of asbestos abatement activities that will disturb RACM in amounts greater than or equal to 160 square feet, 260 linear feet or 35 cubic feet.

The asbestos NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. The asbestos NESHAP regulation also requires the identification and classification of existing ACM according to friability prior to demolition or renovation activity. Friable ACM is a material containing more than 1% asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. All friable ACM is considered regulated asbestos containing material (RACM).

The asbestos NESHAP regulation classifies material subject to demolition or renovation as either RACM, Category I non-friable ACM, or Category II non-friable ACM. RACM includes all friable ACM (pre-disturbance), along with Category I non-friable ACM that becomes friable (during disturbance), and Category I non-friable ACM subject to sanding, grinding, cutting, or abrading, or Category II non-friable ACM with a high probability of becoming crumbled, pulverized, or



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reduced to powder by forces expected to act on the material during disturbance. Category I non-friable ACM are exclusively asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products that contain more than 1% asbestos. Category II non-friable ACM are all other non-friable materials (other than Category I non-friable ACM) that contain more than 1% asbestos. Category II non-friable ACM generally includes (but is not limited to) cementitious material such as: cement pipes, cement siding, cement panels, glazing, mortar, and grouts.

The Oklahoma Department of Labor (ODOL) under the Oklahoma Asbestos Control Act (OAC) Title 40 § 450-456 administer the United States Occupational Safety and Health Administration (USOSHA) asbestos standard for construction (29 CFR 1926.1101) that regulates workplace exposure to asbestos. The USOSHA standard requires that employee exposure to airborne asbestos fibers be maintained at or below 0.1 fibers per cubic centimeter of air (0.1 f/cc) as an eight hour time weighted average (TWA) and not exceed 1.0 fibers per cubic centimeter of air (1.0 f/cc) over a 30 minute time period known as an excursion limit (EL). The TWA and EL are known as OSHA's permissible exposure limits (PELs). The OSHA standard classifies construction and maintenance activities which could disturb ACM, and specifies work practices and precautions which employers must follow when engaging in each class of regulated work.

## 5.0 FINDINGS AND RECOMMENDATIONS

The following asbestos containing materials were identified as a result of laboratory analysis or assumed to be asbestos containing (Tables includes results from Terracon's 2014 Asbestos Survey 03147033):

### West

Material Description	Material Location	Estimated Quantity*
Friable Ceiling Thermal Plaster	Boiler Room Ceiling	10,500 Sq. Ft.
Acoustical Ceiling	Vault Safe Deposit Area, 4 <sup>th</sup> Floor southeast. 31 <sup>st</sup> Floor, 31 <sup>st</sup> Floor Attic & 32 <sup>nd</sup> Floor	
Brown Mastic Behind 1'x1' Ceiling Tile	Behind 1'x1' Ceiling Tiles Throughout	52,000 Sq. Ft.
Duct Paper Tape and fiberglass	13 <sup>th</sup> Floor, 31 <sup>st</sup> Floor, and 31 <sup>st</sup> Floor attic	2500 Sq. Ft. of Paper Tape associated with 8,500 Sq. Ft. of fiberglass insulation
Piping / Fittings (steam, domestic water, drain)	Throughout building	31,000 Ln. Ft. 3,500 Fittings
Transite ®	16 <sup>th</sup> Floor back of elevator room doors, Box around Radiators, Cooling Tower, counter tops	800 Sq. Ft.

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June 2, 2016 ■ Terracon Project No. 03167033

**West**

Material Description	Material Location	Estimated Quantity*
Tank Insulation	Drinking water Tank 17 <sup>th</sup> and 33 <sup>rd</sup> Floor	15,000 Sq. Ft.
Duct Insulation	12 <sup>th</sup> -27 <sup>th</sup> Floors and 31 <sup>st</sup> Floor Attic AHU Rooms, Boiler Duct	
Hot Water Tanks (3)	Boiler Room	
Breech	Boiler Room	
DA Tank	Boiler Room	
Sand Filler Tank	Boiler Room	
Pump Tank	Boiler Room	
Joint Compound	Scattered locations	100,000 Sq. Ft.
Floor Tile and Mastic	Throughout Building	255,000 Sq. Ft.
2' X 4' Ceiling Tile	7th Floor Room 703, 29th Floor Kitchen	2,000 Sq. Ft.
1' X 1' Galaxy Ceiling Tile	20th Floor East Center Room, 26 <sup>th</sup> floor	
Window Caulk	Windows	1,700 Windows
Paper Back on radiator	8th Floor NE Room, 27th Floor W Center, and 27th Floor SW Office Area	250 Sq. Ft.
Fire Door	Stair Doors and Stairway Restroom Doors	100 Doors
Mirror Mastic	Various Tenant Spaces	5,000 Sq. Ft.
Roofing Materials	Roof	21,000 Sq. Ft.

**Center**

Material Description	Material Location	Estimated Quantity*
Floor Tile and Mastic	Throughout Building	150,000 Sq. Ft.
Duct Paper Tape	14 <sup>th</sup> Floor, 11 <sup>th</sup> Floor, Risers	4,000 Sq. Ft. Paper Tape on 4,500 Ln. Ft. of Duct covering
Piping / Fittings (steam, domestic water, chilled water, drain)	Mechanical And AHU Rooms, Pipe Chases Throughout Building	4,765 Ln. Ft. with 2,360 associated fittings

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### Center

Material Description	Material Location	Estimated Quantity*
Gasket	Pump Room 14 <sup>th</sup> Floor	20 Ln. Ft.
Chillers	Pump Room 14 <sup>th</sup> Floor	200 Sq. Ft
Duct Plaster Insulation	13th Floor AHU	700 Sq. Ft.
Joint Compound	1st Floor Hallmark, 5th Floor, 10th Floor, 11 <sup>th</sup> Floor, 12th Floor, 13th Floor, and 14 <sup>th</sup> Floor	100,000 Sq. Ft.
Window Caulk	Windows Throughout	300 windows
Transite ®	Peg Board – 4 <sup>th</sup> floor, 14 <sup>th</sup> Floor Mechanical Room Bathroom. Ground Floor Driveway	1,730 Sq. Ft.
Acoustic Plaster	Basement – west of vault	2,030 Sq. Ft.
Fire Doors	Throughout	60 Doors
Roofing Materials	Roof	14,000 SF. Ft.

### East

Material Description	Material Location	Estimated Quantity*
Floor Tile and Mastic	Throughout	50,000 Sq. Ft.
Sheet Vinyl Beneath Floor Tile	9 <sup>th</sup> Floor	430 Sq. Ft.
Piping / Fittings (steam, Domestic Water, Drain and Chilled Water)	Throughout	1,300 Ln. Ft. and 2,000 Fittings
Transite ®	Window Panels and Stored Panels	10,600 Sq. Ft. 200 Sq. Ft. (stored)
Joint Compound	Basement, 2nd – 15 <sup>th</sup> Floor Original Walls	131,250 Sq. Ft.
2' X 2' Ceiling Tile	Basement, 9-11 <sup>th</sup> Floors	85,000 Sq. Ft.
Fire Door	Stairway Doors	42 Doors
Paper Gaskets	14th Floor Boiler	15 Sq. Ft.

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### East

Material Description	Material Location	Estimated Quantity*
Spray Applied Fire Proofing	3 <sup>rd</sup> – 7 <sup>th</sup> , 12 <sup>th</sup> - 14 <sup>th</sup> Floor Perimeter Columns, stairwells and some elevator lobby areas, Sub-basement, Basement-East, 8 <sup>th</sup> -11 <sup>th</sup> Floors Throughout, 14 <sup>th</sup> Floor Boiler Room, & 15 <sup>th</sup> Floor Mechanical Room, Three East Elevator Shafts And Two Freight Elevator Shafts	480,000 Sq. Ft.
Roofing Materials	Roof	27,000 Sq. Ft.

### FRIABLE ACMs

#### Fireproofing, Ceiling Tiles, Acoustical and Friable Plaster Ceilings, Duct and Radiator Tape, Pipe Insulations, Pipe Fittings, AHU, Duct and Vessel Insulation

The fireproofing, 1'x1' ceiling tiles, 2'x4' ceiling tiles, acoustical ceiling, friable plaster ceiling, duct tape, pipe insulations, fittings, AHU, duct and vessel insulation are considered RACM and must be removed by a qualified asbestos abatement contractor prior to demolition of the structure in accordance with a project design prepared by an Oklahoma licensed Project Designer.

### NON-FRIABLE ACMs

#### Floor Tile and Mastics

Floor tiles and mastics (Category I non-friable materials) were identified and/or assumed at the subject site and observed in good condition. According to the EPA, non-friable floor coverings, tar-impregnated roofing felts, asphalt tiles, asphalts and mastics that are non-friable and will remain non-friable during proposed demolition methods are exempt from NESHAP requirements and need not be removed prior to demolition.

This exemption assumes the demolition of the building does not include deliberate burning or activities that powder or otherwise damage and render the materials friable. Additionally, the building debris need not be disposed of as asbestos-containing waste material provided such Category I ACM remains non-friable. However, Terracon recommends the landfill operator be notified that construction debris contains non-friable asbestos-containing materials.

Removal prior to renovation may be performed by an Oklahoma licensed asbestos abatement contractor, or general contractor personnel who have received a minimum 8-hour training on Class II asbestos-containing materials. The removal of the material should also be observed and performed under the guidance of a 'competent person' as defined by the Occupational Safety and Health Administration (OSHA) in 29 Code of Federal Regulations (CFR) 1926.1101 Asbestos.

### Non-friable Sheet Vinyl Flooring

Non-friable asbestos-containing sheet-vinyl flooring was identified in the East building on the 9<sup>th</sup> floor. According to the ODOL, sheet-vinyl flooring products that are non-friable, in good condition and will remain non-friable during proposed demolition methods need not be removed prior to

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demolition. However, prior to renovation the material must be removed by a qualified asbestos abatement contractor prior to demolition of the structure in accordance with a project design prepared by an Oklahoma licensed Project Designer.

### **Transite®**

The Transite® is considered a Category II non-friable ACM; however, the material is considered likely to become friable during the demolition operation and must be removed prior to demolition of the structure. Removal may be performed by an Oklahoma licensed asbestos abatement contractor, or general contractor personnel who have received a minimum 8-hour training on Class II asbestos-containing materials. The removal of the material should also be observed and performed under the guidance of a 'competent person' as defined by the Occupational Safety and Health Administration (OSHA) in 29 Code of Federal Regulations (CFR) 1926.1101 Asbestos.

### **Joint Compound**

The asbestos-containing joint compound is a Category II non-friable ACM in its present state; however, has a high probability of becoming friable during demolition. Therefore, according to Oklahoma Department of Labor (ODOL) regulations, the joint compound must be removed by a qualified asbestos abatement contractor prior to demolition of the structure in accordance with a project design prepared by an Oklahoma licensed Project Designer.

### **Fire Doors**

Fire doors were identified or assumed to contain asbestos. Removal prior to renovation may be performed by an Oklahoma licensed asbestos abatement contractor, or general contractor personnel who have received a minimum 8-hour training on Class II asbestos-containing materials. The removal of the material should also be observed and performed under the guidance of a 'competent person' as defined by the Occupational Safety and Health Administration (OSHA) in 29 Code of Federal Regulations (CFR) 1926.1101 Asbestos.

### **Asphaltic Roofing Materials**

Asbestos-containing asphaltic roofing materials (Category I non-friable materials) were assumed at the subject site. According to the Environmental Protection Agency (EPA), tar-impregnated roofing felts, asphalt tiles, asphalts and mastics that are non-friable and will remain non-friable during proposed demolition methods are exempt from requirements under the National Emission Standard for Hazardous Air Pollutants (NESHAP) and need not be removed prior to demolition. As with floor tile and mastics, this exemption assumes the demolition of the roof system does not include deliberate burning or activities that powder or otherwise damage and render the materials friable. Additionally, the debris need not be disposed of as asbestos-containing waste material provided such Category I ACM remains non-friable. However, Terracon recommends the landfill operator be notified that construction debris contains non-friable asbestos-containing materials.

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At your request, Terracon can provide a proposal for developing asbestos abatement specifications (project design) and for performing abatement oversight and air monitoring. Terracon's 2014 Asbestos Survey Report 03147033 is attached in Appendix F.

## **6.0 LIMITATIONS/GENERAL COMMENTS**

Terracon did not perform sampling requiring demolition or destructive activities such as knocking holes in walls, dismantling of equipment, or removal of protective coverings. Reasonable efforts to access suspect materials within known areas of restricted access (e.g., crawl spaces) were made; however, confined spaces or areas which may pose a health or safety risk to Terracon personnel were not sampled. Sampling did not include suspect materials which could not be safely reached with available ladders/man-lifts. Additionally, roofing materials were not sampled during this survey.

This asbestos survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions, and recommendations expressed in this report are based on conditions observed during our survey of the building. The information contained in this report is relevant to the date on which this survey was performed, and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by NE Development Company LLC for specific application to their project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories, or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.



# APPENDIX A

## First National Center-Asbestos Survey and hazardous Materials Update 120 North Robinson, Oklahoma City Oklahoma

### IDENTIFIED ASBESTOS CONTAINING MATERIALS BY HOMOGENEOUS AREA (HA) (Summary includes results from 03147033 and current sampling)

#### West

HA No.	Material Description	Material Location	% and Type Asbestos**	NESHAP Classification	Condition	Estimated Quantity*
1	Friable Ceiling Thermal Plaster	Boiler Room Ceiling	15-75% Chrysotile	RACM	Good	10,500 Sq. Ft.
2, 9, 64, 67, & 130	Acoustical Ceiling	Vault Safe Deposit Area, 4 <sup>th</sup> Floor southeast. 31 <sup>st</sup> Floor, 31 <sup>st</sup> Floor Attic & 32 <sup>nd</sup> Floor	1.6-20% Chrysotile	RACM	Good	
10 & 11	Brown Mastic Behind 1'x1' y Ceiling Tile	Behind 1'x1' Ceiling Tiles Throughout	1.1-3% Chrysotile PC	Cat. I Non Friable	Good	52,000 Sq. Ft.
18	Duct Paper Tape and fiberglass	13 <sup>th</sup> Floor, 31 <sup>st</sup> Floor, and 31 <sup>st</sup> Floor attic	60% Chrysotile	RACM	Good	2500 Sq. Ft. of Paper Tape associated with 8,500 Sq. Ft. of fiberglass insulation
20,26,27	Piping / Fittings (steam, domestic water, drain)	Throughout building	3-70% Chrysotile; 55 Amosite	RACM	Good	31,000 Ln. Ft. 3,500 Fittings
39, 145 & 147	Transite ®	16 <sup>th</sup> Floor back of elevator room doors, Radiators, Cooling Tower	25-40% Chrysotile	Cat II Non Friable	Good	800 Sq. Ft.

## APPENDIX A (Cont.)

### IDENTIFIED ASBESTOS CONTAINING MATERIALS BY HOMOGENEOUS AREA (HA)

#### West

HA No.	Material Description	Material Location	% and Type Asbestos**	NESHAP Classification	Condition	Estimated Quantity*
40 & 142	Tank Insulation	Drinking water Tank 17 <sup>th</sup> and 33 <sup>rd</sup> Floor	75-80% Chrysotile	RACM	Good	15,000 Sq. Ft.
69	Duct Insulation	12 <sup>th</sup> -27 <sup>th</sup> Floors and 31 <sup>st</sup> Floor Attic AHU Rooms, Boiler Duct	20-70% Chrysotile	RACM	Good	
70	Hot Water Tanks (3)	Boiler Room	50% Chrysotile	RACM	Good	
71	DA Tank	Boiler Room	30% Chrysotile	RACM	Good	
72	Sand Filler Tank	Boiler Room	20% Chrysotile	RACM	Good	
73	Pump Tank	Boiler Room	55% Chrysotile	RACM	Good	
101	Joint Compound	Scattered Locations	1.2% - 1.3% Chrysotile PC	RACM during renovation	Good	100,000 Sq. Ft.
21, 35, 38, 48 & 113-125	Floor Tile and Mastic	Throughout Building	1.2 -3% Chrysotile PC - Tile 1.2-4% Chrysotile PC - Mastic	Cat. I Non Friable	Good	255,000 Sq. Ft.
131	2' X 4' Ceiling Tile	7th Floor Room 703, 29th Floor Kitchen	1.1% - 1.8% Chrysotile PC	RACM	Good	2,000 Sq. Ft.
137	1' X 1' Galaxy Ceiling Tile	20th Floor East Center Room	1.6% Amosite PC	RACM	Good	
143	Window Caulk	Windows	PC Trace - 2.4% Chrysotile PC	Cat. II Non Friable	Good	1,700 Windows
144	Paper Back on radiator	8th Floor NE Room, 27th Floor W Center, and 27th Floor SW Office Area	75% - 80% Chrysotile PC	RACM	Good	250 Sq. Ft.
146	Fire Door	Stair Doors and Stairway Restroom Doors	80% Chrysotile PC	Cat. II Non Friable	Good	100 Doors

## APPENDIX A (Cont.)

### IDENTIFIED ASBESTOS CONTAINING MATERIALS BY HOMOGENEOUS AREA (HA)

West

HA No.	Material Description	Material Location	% and Type Asbestos**	NESHAP Classification	Condition	Estimated Quantity*
	Mirror Mastic	Various Tenant Spaces	Assumed	Cat. I Non Friable	Good	5,000 Sq. Ft.
	Roofing Materials	Roof	Assumed	Cat. I Non Friable	Good	21,000 Sq. Ft.

## APPENDIX A (Cont.)

### IDENTIFIED ASBESTOS CONTAINING MATERIALS BY HOMOGENEOUS AREA (HA)

Center

HA No.	Material Description	Material Location	% and Type Asbestos**	NESHAP Classification	Condition	Estimated Quantity*
17, 18, 21-24, 26, & 28-34	Floor Tile and Mastic	Throughout Building	Not Detected -6% Chrysotile - Tile Not Detected-6% Chrysotile - Mastic	Cat. I Non Friable	Good	150,000 Sq. Ft.
35, 45	Duct Tape	14 <sup>th</sup> Floor, 11 <sup>th</sup> Floor, Risers	75% Chrysotile	RACM	Good	4,000 Sq. Ft. on 4,500 Ln. Ft. of Duct
36-40, 43, 57, 59, 62, 63, 65, 66, 70 & 71	Piping / Fittings (steam, domestic water, chilled water, drain)	Mechanical And AHU Rooms, Pipe Chases Throughout Building	<1%-80% Chrysotile; 4-30% Amosite; 2-3% Crocidolite	RACM	Good	4,765 Ln. Ft. with 2,360 associated fittings
76	Gasket	Pump Room 14 <sup>th</sup> Floor	50% Chrysotile	Cat II Non Friable	Good	20 Ln. Ft.
79	Chillers	Pump Room 14 <sup>th</sup> Floor	20% Chrysotile	RACM	Good	200 Sq. Ft.
145	Duct Insulation	13th Floor AHU	30% Chrysotile PC	RACM	Good	700 Sq. Ft.
148	Joint Compound	1st Floor Hallmark, 5th Floor, 10th Floor, 11 <sup>th</sup> Floor, 12th Floor, 13th Floor, and 14 <sup>th</sup> Floor	1.3% - 3.2% Chrysotile PC	RACM during demolition	Good	100,000 Sq. Ft.
158	Window Caulk	Windows Throughout	3.1% Chrysotile PC	Cat. II Non Friable	Good	300 Windows
	Transite ®	Peg Board 14 <sup>th</sup> Floor Mechanical Room Bathroom. Ground Floor Driveway	Assumed	Cat. II Non Friable	Good	1,730 Sq. Ft.
	Acoustic Plaster	Basement-West of Vault	4% Chrysotile	RACM	Good	2,030 Sq. Ft.
	Fire Doors	Throughout	Assumed	Cat. II Non Friable	Good	60 Doors
	Roofing Materials	Roof	Assumed	Cat. I Non Friable	Good	14,000 Sq. Ft.

**APPENDIX A (Cont.)**  
**IDENTIFIED ASBESTOS CONTAINING MATERIALS BY HOMOGENEOUS AREA (HA)**

**East**

HA No.	Material Description	Material Location	% and Type Asbestos**	NESHAP Classification	Condition	Estimated Quantity*
11, 12, 14, & 18-20	Floor Tile and Mastic	Throughout	Not Detected - 6% Chrysotile-Tile Not Detected- 6% Chrysotile-Mastic	Cat I Non Friable	Good	50,000 Sq. Ft.
14	Sheet Vinyl Beneath Floor Tile	9 <sup>th</sup> Floor	25% Chrysotile	Cat. I Non Friable	Good	430 Sq. Ft.
23, 41, 45, 48, 49, 51, & 52	Piping / Fittings (steam, Domestic Water, Drain and Chilled Water)	Throughout	<1%-80% Chrysotile 2-30% Amosite	RACM	Good	1,300 Ln. Ft. and 2,000 Fittings
35	Transite ®	Window Panels and Stored Panels	Assumed	Cat. II Non Friable	Good	10,600 Sq. Ft. 200 Sq. Ft. (stored)
88 & 160-162	Joint Compound	Basement, 2nd – 15 <sup>th</sup> Floor Original Walls	1.2% - 2.1% Chrysotile PC	RACM during demolition	Good	131,250 Sq. Ft.
40 & 168	2' X 2' Ceiling Tile	Basement, 9-11 <sup>th</sup> Floors	1.2-2% Chrysotile PC - Tile	RACM	Good	85,000 Sq. Ft.
169	Fire Door	Stairway Doors	8.3% Amosite PC; 15% Chrysotile	Cat. II Non Friable	Good	42 Doors
174	Paper Gaskets	14 <sup>th</sup> Floor Boiler	90% Chrysotile	RACM Non Friable	Good	15 Sq. Ft.
27, 31, 33, 39, 46 & 176	Spray Applied Fire Proofing	3 <sup>rd</sup> – 7 <sup>th</sup> , 12 <sup>th</sup> - 14 <sup>th</sup> Floor Perimeter Columns, Sub-basement, Basement-East, 8 <sup>th</sup> -11 <sup>th</sup> Floors Throughout, 14 <sup>th</sup> Floor Boiler Room, & 15 <sup>th</sup> Floor Mechanical Room, Three East Elevator Shafts And Two Freight Elevator Shafts	6% - 15% Chrysotile <1% Actinolite/Tremolite	RACM	Good	480,000 Sq. Ft.

## APPENDIX A (Cont.)

### IDENTIFIED ASBESTOS CONTAINING MATERIALS BY HOMOGENEOUS AREA (HA)

#### East

HA No.	Material Description	Material Location	% and Type Asbestos**	NESHAP Classification	Condition	Estimated Quantity*
	Caulking	Windows Throughout	Assumed			
	Roofing Materials	Roof	Assumed	Cat. I Non Friable	Good	27,000 Sq. Ft.

**\*Estimated quantities** are based on a cursory field evaluation, and actual quantities may vary significantly, especially if asbestos containing materials are present in hidden and/or inaccessible areas not evaluated as part of this survey.

**\*\*% & Type Asbestos** = this column contains both the analytical result of the sample with the highest concentration of asbestos detected in the samples that make up the HA and the types of asbestos identified.

The materials listed in this table have been sampled and determined to contain asbestos in concentrations greater than 1%. When disturbed, various federal, state and local regulations may apply. These materials should be monitored for damage over time and repaired as necessary by appropriately trained personnel. Removal may be necessary before renovations and in most cases before a demolition. See Appendix B for a summary of samples collected. See Appendix C for detailed analytical results.



## APPENDIX B

### First National Center-Asbestos Survey and hazardous Materials Update 120 North Robinson, Oklahoma City Oklahoma

#### ASBESTOS SURVEY SAMPLE LOCATION SUMMARY

**West**

HA No.	Material Description	Sample Number	Sample Location	Lab Results
01	Friable Ceiling Plaster	01-PL2-500	Boiler Room Ceiling	75% Chrysotile PC
03	Hard Plaster Walls & Ceiling	03-HP2-501	3rd Floor East Side	None Detected
		03-HP2-502	6th Floor West-North Janitor Closet	None Detected
		03-HP2-503	9th Floor AHU Room	None Detected
		03-HP2-504	10th Floor North Janitor Closet	None Detected
		03-HP2-505	11th Floor AHU Room	None Detected
		03-HP2-506	12th Floor Southwest Corner	None Detected
		03-HP2-507	18th Floor	None Detected
		03-HP2-508	19th Floor Southeast Corner	None Detected
10	1' X 1 Wavy' Ceiling Tile & Glue Dot	10-CT1-509	6th Floor Northwest	None Detected
		10-CT1-510	12th Floor South	None Detected
		10-CT1-511	17th Floor Northeast Hall	None Detected - Ceiling Tile
				1.1% Chrysotile PC - Mastic
11	Glue Dots	11-MG6-512	4th Floor Northeast	None Detected
		11-MG6-513	32nd Floor Kitchen	None Detected
13	1' X 2' Brick Pattern Ceiling Tile & Adhesive	13-CT2-514	4th Floor Southeast	None Detected
69	Duct Insulation	69-MI4-515	12th Floor North AHU Room	70% Chrysotile PC

**APPENDIX B (Cont.)**  
**ASBESTOS SURVEY SAMPLE LOCATION SUMMARY**

**West**

HA No.	Material Description	Sample Number	Sample Location	Lab Results
100	Drywall	100-WB2-516	3rd Floor Southeast Room	None Detected
		100-WB2-517	6th Floor Northeast Hall	None Detected
		100-WB2-518	7th Floor Northwest Room	None Detected
		100-WB2-519	8th Floor Southwest Room	None Detected
		100-WB2-520	10th Floor Southeast Entry To Office	None Detected
		100-WB2-521	11th Floor Southwest Room	None Detected
		100-WB2-522	12th Floor Office	None Detected
		100-WB2-523	13th Floor	None Detected
101	Joint Compound	101-WB3-524	3rd Floor Southeast Room	None Detected
		101-WB3-525	6th Floor Northeast Room	None Detected
		101-WB3-526	7th Floor Northwest Room	None Detected
		101-WB3-527	8th Floor Southwest Room	None Detected
		101-WB3-528	10th Floor South Hall	None Detected
		101-WB3-529	11th Floor Southwest Room	None Detected
		101-WB3-530	12th Floor South	None Detected
		<b>101-WB3-531</b>	<b>13th Floor</b>	<b>1.3% Chrysotile PC</b>
		<b>101-WB3-532</b>	<b>18th Floor North</b>	<b>1.2% Chrysotile PC</b>

**APPENDIX B (Cont.)**  
**ASBESTOS SURVEY SAMPLE LOCATION SUMMARY**

**West**

HA No.	Material Description	Sample Number	Sample Location	Lab Results
102	6 <sup>th</sup> Floor Wall Texture	102-PL1-533	6th Floor West Side Wall	None Detected
		102-PL1-534	6th Floor North Wall	None Detected
		102-PL1-535	6th Floor West Side Wall	None Detected
		102-PL1-536	6th Floor North Side Wall	None Detected
		102-PL1-537	6th Floor North Side Wall	None Detected
103	9 <sup>th</sup> Floor Wall Texture	103-PL1-538	9th Floor West Wall	None Detected
		103-PL1-539	9th Floor West Wall	None Detected
		103-PL1-540	9th Floor West Wall	None Detected
		103-PL1-541	9th Floor West Wall	None Detected
		103-PL1-542	9th Floor Southwest Wall	None Detected
		103-PL1-543	9th Floor North Wall	None Detected
		103-PL1-544	9th Floor Southwest Corner Wall	None Detected
104	10 <sup>th</sup> Floor Wall Texture	104-PL1-545	10th Floor West	None Detected
		104-PL1-546	10th Floor West	None Detected
		104-PL1-547	10th Floor South	None Detected
		104-PL1-548	10th Floor South	None Detected
		104-PL1-549	10th Floor West	None Detected
		104-PL1-550	10th Floor North Hall	None Detected
		104-PL1-551	10th Floor North Hall	None Detected

**APPENDIX B (Cont.)**  
**ASBESTOS SURVEY SAMPLE LOCATION SUMMARY**

**West**

HA No.	Material Description	Sample Number	Sample Location	Lab Results
105	11 <sup>th</sup> Floor Wall Texture	105-PL1-552	11th Floor Northwest Corner	None Detected
		105-PL1-553	11th Floor Northwest Corner	None Detected
		105-PL1-554	11th Floor Northwest Corner	None Detected
106	12 <sup>th</sup> Floor Wall Texture-South Office	106-PL1-555	12th Floor South Office Wall	None Detected
		106-PL1-556	12th Floor South Office Wall	None Detected
		106-PL1-557	12th Floor South Office Wall	None Detected
107	12 <sup>th</sup> Floor Wall Texture- Drips	107-PL1-558	Room 1236 Wall	None Detected
		107-PL1-559	12th Floor West Side East Room Wall	None Detected
		107-PL1-560	12th Floor West Hall Wall	None Detected
		107-PL1-561	12th Floor West Side East Room Wall	None Detected
		107-PL1-562	12th Floor South Wall	None Detected
		107-PL1-563	12th Floor Northwest Hall Wall	None Detected
		107-PL1-564	12th Floor West Room -West Side Wall	None Detected
108	12 <sup>th</sup> Floor Wall Texture-Large	108-PL1-565	12th Floor North Wall	None Detected
		108-PL1-566	12th Floor North Wall	None Detected
		108-PL1-567	12th Floor North Wall	None Detected
		108-PL1-568	12th Floor North Wall	None Detected
		108-PL1-569	12th Floor North Wall	None Detected
		108-PL1-570	12th Floor North Wall	None Detected
		108-PL1-571	12th Floor North Wall	None Detected

**APPENDIX B (Cont.)**  
**ASBESTOS SURVEY SAMPLE LOCATION SUMMARY**

**West**

HA No.	Material Description	Sample Number	Sample Location	Lab Results
109	12" x 12" Light Tan Floor Tile and Mastic	109-FT2-572	10th Floor Break Room	None Detected-Tile
				None Detected-Mastic
		109-FT2-573	10th Floor Break Room	None Detected-Tile
				None Detected-Mastic
		109-FT2-574	10th Floor Break Room	None Detected-Tile
				None Detected-Mastic
110	Carpet Glue	110-MG7-575	10th Floor North	None Detected-
		110-MG7-576	10th Floor West	0.75% Chrysotile PC
		110-MG7-577	10th Floor South	0.5% Chrysotile PC
111	12" x 12" Grey Floor Tile and Mastic	111-FT2-578	11th Floor South Next To Electric Room	None Detected-Tile
				None Detected -Mastic
		111-FT2-579	11th Floor South Next To Electric Room	None Detected -Tile
				None Detected -Mastic
		111-FT2-580	11th Floor South Next To Electric Room	None Detected -Tile
				None Detected -Mastic
112	Carpet Glue	112-MG7-581	12th Floor Hall North	None Detected
		112-MG7-582	12th Floor Hall South	None Detected
		112-MG7-583	12th Floor Hall West	None Detected
113	12" x 12" White/Grey Floor Tile and Mastic	113-FT2-584	16th Floor Southwest Office	1.2% Chrysotile PC - Tile
				None Detected - Mastic
				None Detected - Mastic
114	9" x 9" Brown Floor Tile and Mastic	114-FT1-585	21st Floor-2101	2.3% Chrysotile PC - Floor Tile
				1.8% Chrysotile PC - Mastic

**APPENDIX B (Cont.)**  
**ASBESTOS SURVEY SAMPLE LOCATION SUMMARY**

**West**

HA No.	Material Description	Sample Number	Sample Location	Lab Results
115	12" x 12" "Faux Wood" Floor Tile and Mastic	115-FT2-586	23rd Floor Northeast Office Hall	2.2% Chrysotile PC - Floor Tile
				None Detected - Mastic
116	12" x 12" Grey Blue Floor Tile and Mastic	116-FT2-587	25th Floor South Suite	None Detected - Floor Tile
				1.8% Chrysotile PC - Mastic
117	Grey Sheet Vinyl Flooring/Paper Backing	117-FC1-588	26th Floor Northwest Store Room Next To Conference Room	None Detected
118	9" x 9" Brown Floor Tile and Mastic	118-FT1-589	26th Floor Southwest Suite 2618	2.6% Chrysotile PC - Tile
				1.4% Chrysotile PC - Mastic
				None Detected - Mastic
119	Grey Sheet Vinyl Flooring/Paper Backing	119-FC1-590	26th Floor Northeast Room	None Detected
120	12" x 12" Tan with Brown Floor Tile and Mastic	119-FC1-591	27th Floor South Center	None Detected
121	12" x 12" Brown Floor Tile and Mastic	119-FC1-592	28th Floor Southwest Office Area	None Detected
122	12" x 12" White Floor Tile and Mastic	122-FT2-593	27th Floor North Office 2720	1.8% Chrysotile PC - Tile
				1.2% Chrysotile PC - Mastic
				None Detected - Mastic
123	12" x 12" Tan Floor Tile and Mastic	123-FT2-594	29th Floor Kitchen	1.6% Chrysotile PC - Tile
				1.2% Chrysotile PC - Mastic
124	12" x 12" Black Floor Tile and Mastic over 9"x9" Black Floor Tile and Mastic	124-FT2-595	30th Floor North Hall At Stairs	None Detected - Tile
				None Detected - Mastic
				Trace Chrysotile PC - Tile
				2.3% Chrysotile PC - Mastic

## APPENDIX B (Cont.)

### ASBESTOS SURVEY SAMPLE LOCATION SUMMARY

#### West

HA No.	Material Description	Sample Number	Sample Location	Lab Results
125	9" x 9" Floor Tile and Mastic	125-FT1-596	31st Floor Southeast Corner	2.1% Chrysotile PC - Tile
				1.8% Chrysotile PC - Mastic
126	17 <sup>th</sup> Floor Wall Texture	126-PL1-597	17th Floor North Center. Room	None Detected
		126-PL1-598	17th Floor North Center. Room	None Detected
		126-PL1-599	17th Floor North Center. Room	None Detected
127	Mastic on Wall Tile	127-MG5-600	30th Floor Kitchen	None Detected
		127-MG5-601	30th Floor Kitchen	None Detected
128	Tar Paper Beneath Carpet	128-FC5-602	6th Floor Room North Of Elevators	None Detected
130	Friable Ceiling Plaster	130-PL2-603	31st Floor North Side Lower Ceiling	1.8% Chrysotile PC
		130-PL2-604	31st Floor East Side Upper Ceiling	2.5 Chrysotile PC
		130-PL2-605	31st Floor Attic	1.6% Chrysotile PC
		130-PL2-606	31st Floor At Duct Through Ceiling	5.6% Chrysotile PC
131	2' X 4' Ceiling Tile	131-CT4-607	7th Floor Room 703	1.1 Chrysotile PC - Ceiling Tile
		131-CT4-608	29th Floor Kitchen	1.8% Chrysotile PC - Ceiling Tile
		131-CT4-609	29th Floor Kitchen	1.3% Chrysotile PC - Ceiling Tile
132	1' X 1' Ceiling Tile	132-CT1-610	18th Floor Middle	None Detected - Ceiling Tile
				0.75% Chrysotile PC - Mastic
133	1' X 1' Ceiling Tile	133-CT1-611	18th Floor North East	None Detected
134	1' X 1' Ceiling Tile	134-CT1-612	8th Floor Southwest	None Detected
		134-CT1-613	12th Floor Southwest	None Detected



## APPENDIX B (Cont.)

### ASBESTOS SURVEY SAMPLE LOCATION SUMMARY

#### West

HA No.	Material Description	Sample Number	Sample Location	Lab Results
135	1' X 1' Ceiling Tile	135-CT1-614	6th Floor Northeast	None Detected
		135-CT1-615	23rd Floor At Column 14	None Detected
136	1' X 1' Ceiling Tile	136-CT1-616	24th Floor Southeast Office	None Detected
<b>137</b>	<b>1' X 1' Ceiling Tile</b>	<b>137-CT1-617</b>	<b>20th Floor East Center Room</b>	<b>1.6% Amosite PC - Ceiling Tile</b>
				None Detected - Mastic
138	1' X 1' Ceiling Tile	138-CT1-618	30th Floor Center At Entry To Restaurant	None Detected
139	Metal Pan Ceiling Insulation	139-AW5-619	30th Floor Kitchen	None Detected
140	Cloth on Duct	140-MI4-620	9th Floor AHU Room	None Detected
141	Tar Paper on Duct	141-MI4-621	31st Floor Attic	None Detected-Tar Paper
		141-MI4-622	31st Floor Attic	None Detected-Insulation
<b>142</b>	<b>Tank Insulation</b>	<b>142-MI3-623</b>	<b>33rd Floor South Side</b>	<b>75% Chrysotile PC</b>
<b>143</b>	<b>Window Caulk</b>	<b>143-CA1-624</b>	<b>32nd Floor North Kitchen</b>	<b>2.4% Chrysotile PC</b>
<b>144</b>	<b>Paper Backing on Radiator</b>	<b>144-PM5-625</b>	<b>8th Floor Northeast Room</b>	<b>80% Chrysotile PC</b>
		<b>144-PM5-626</b>	<b>27th Floor West Center</b>	<b>80% Chrysotile PC</b>
		<b>144-PM5-627</b>	<b>27th Floor Southwest Office Area</b>	<b>75% Chrysotile PC</b>
<b>145</b>	<b>Transite® Radiator Backing</b>	<b>145-CP5-628</b>	<b>17th Floor West Center</b>	<b>40% Chrysotile PC</b>
<b>146</b>	<b>Fire Door</b>	<b>146-FD5-629</b>	<b>31st Floor Men's Restroom At Stairs</b>	<b>80% Chrysotile PC</b>
<b>147</b>	<b>Transite ® Cooling Tower</b>	<b>147-CP5-630</b>	<b>13th Floor Roof Northeast</b>	<b>25% Chrysotile PC</b>

**APPENDIX B (Cont.)**  
**ASBESTOS SURVEY SAMPLE LOCATION SUMMARY**

**West**

HA No.	Material Description	Sample Number	Sample Location	Lab Results
3	Hard Plaster Walls & Ceiling	03-HP2-631	25th Floor	None Detected
		03-HP2-632	30th Floor	None Detected
		03-HP2-633	31st Floor	None Detected
		03-HP2-634	32nd Floor	None Detected
100	Drywall	100-WB2-635	25th Floor	None Detected
		100-WB2-636	26th Floor	None Detected
		100-WB2-637	27th Floor	None Detected
		100-WB2-638	29th Floor	None Detected
		100-WB2-639	30th Floor	None Detected
		100-WB2-640	31st Floor	None Detected
		100-WB2-641	32nd Floor	None Detected
101	Joint Compound	101-WB3-642	26th Floor	None Detected
		101-WB3-643	27th Floor	None Detected
		101-WB3-644	29th Floor	None Detected
		101-WB3-645	30th Floor	None Detected
		101-WB3-646	32nd Floor	None Detected

## APPENDIX B (Cont.)

### ASBESTOS SURVEY SAMPLE LOCATION SUMMARY

#### West

HA No.	Material Description	Sample Number	Sample Location	Lab Results
100	Gypsum Wallboard	100-WB2-840	Basement Room 35	None Detected
		100-WB2-841	1st Floor Gina's	None Detected
		100-WB2-842	1st Floor Hallmark-West	None Detected
		100-WB2-843	1st Floor Café 7	None Detected
		100-WB2-844	1st Floor Pharmacy	None Detected
		100-WB2-845	1st Floor Salon	None Detected
		100-WB2-846	1st Floor Tinder	None Detected
		100-WB2-847	1st Floor Dr. Hamburge	None Detected
		100-WB2-848	1st Floor St. Anthony's	None Detected
101	Joint Compound	101-WB3-849	Basement Room 35	1.1% Chrysotile PC
		101-WB3-850	1st Floor Gina's	None Detected
		101-WB3-851	1st Floor Hallmark	1.2% Chrysotile PC
		101-WB3-852	1st Floor Café 7	None Detected
		101-WB3-853	1st Floor Pharmacy	None Detected
		101-WB3-854	1st Floor Salon	None Detected
		101-WB3-855	1st Floor Tinder	None Detected
		101-WB3-856	1st Floor St. Anthony's	None Detected
		101-WB3-857	1st Floor Dr. Hamburge	None Detected
3	Hard Plaster Walls & Ceiling	03-HP2-858	Basement Wall From Boiler	None Detected
		03-HP2-859	1st Floor Behind Tenant Spaces-South	None Detected
184	Wall Texture-Drip	184-PL1-860	Hall Behind Café 7	None Detected
		184-PL1-861	Hall Behind Café 7	None Detected
		184-PL1-862	Hall Behind Café 7	None Detected

**APPENDIX B (Cont.)**  
**ASBESTOS SURVEY SAMPLE LOCATION SUMMARY**

HA No.	Material Description	Sample Number	Sample Location	Lab Results
185	Wall Texture	185-PL1-863	Southwest Room of Dr. Hamburge	None Detected
		185-PL1-864	Southwest Room of Dr. Hamburge	None Detected
		185-PL1-865	Southwest Room of Dr. Hamburge	None Detected
186	Wall Texture	186-PL1-866	Dr. Hamburge Front	None Detected
		186-PL1-867	Dr. Hamburge Front	None Detected
		186-PL1-868	Dr. Hamburge Closet	None Detected
		186-PL1-869	Dr. Hamburge Room	None Detected
		186-PL1-870	Dr. Hamburge Room	None Detected
187	Wall Texture-Large	187-PL1-871	1st Floor Gina's	None Detected
		187-PL1-872	1st Floor Gina's	None Detected
		187-PL1-873	1st Floor Gina's	None Detected
		187-PL1-874	1st Floor Pharmacy	None Detected
		187-PL1-875	1st Floor Pharmacy	None Detected
		187-PL1-876	1st Floor Salon	None Detected
		187-PL1-877	1st Floor Salon	None Detected
188	Wall Texture	188-PL1-878	St. Anthony's Lab	None Detected
		188-PL1-879	St. Anthony's X-Ray Room	None Detected
		188-PL1-880	St. Anthony's Closet Middle	None Detected
		188-PL1-881	St. Anthony's Exam Room 10	None Detected
		188-PL1-882	St. Anthony's Closet S	None Detected
		188-PL1-883	St. Anthony's Hall	None Detected
		188-PL1-884	St. Anthony's Hall	None Detected

**APPENDIX B (Cont.)**  
**ASBESTOS SURVEY SAMPLE LOCATION SUMMARY**

**West**

HA No.	Material Description	Sample Number	Sample Location	Lab Results
117	Sheet Vinyl Flooring/Paper Backing	117-FC1-650	5 <sup>th</sup> Floor North Mechanical Room	None Detected
150	Window Caulk	150-CA1-651	10 <sup>th</sup> Floor Exterior South Side At Fire Escape	1.9% Chrysotile
		150-CA1-652	11 <sup>th</sup> Floor Exterior South Side At Fire Escape	1.4% Chrysotile
		150-CA1-653	14 <sup>th</sup> Floor Exterior Southeast Roof	PC Trace Chrysotile
151	Interior Duct Lining	151-MI4-654	7 <sup>th</sup> Floor Mechanical Room At Door	None Detected
		151-MI4-655	7 <sup>th</sup> Floor Mechanical Room At Door	None Detected
152	Duct Insulation	152-MI4-656	4 <sup>th</sup> Floor Attic Above Bank Lobby-North Side	None Detected

**APPENDIX B (Cont.)**  
**ASBESTOS SURVEY SAMPLE LOCATION SUMMARY**

Center

HA No.	Material Description	Sample Number	Sample Location	Lab Results
142	Friable Ceiling Plaster	142-PL2-647	13th Floor	None Detected
143	Tar Coating	143-SC2-648	8th Floor AHU Room	None Detected
144	Tar Coating	144-SC2-649	8th Floor Fire/Electric Closet	None Detected
		144-SC2-650	8th Floor Fire/Electric Closet	None Detected
145	Duct Insulation	145-MI4-651	14th Floor Mechanical Pump Room	None Detected
				None Detected
		<b>145-MI4-652</b>	<b>13th Floor AHU</b>	<b>30% Chrysotile PC</b>
146	Hard Plaster Walls & Ceiling	146-HP2-653	Basement-Bank Teller Room	None Detected
		146-HP2-654	2nd Floor Stairs	None Detected
		146-HP2-655	3rd Floor North	None Detected
		146-HP2-656	4th Floor South Middle Column	None Detected
		146-HP2-657	5th Floor West	None Detected
		146-HP2-658	6th Floor Room 151	None Detected
		146-HP2-659	7th Floor Southwest Office	None Detected
		146-HP2-660	8th Floor	None Detected
		146-HP2-661	9th Floor South Room	None Detected
		146-HP2-662	10th Floor Elevator Hall	None Detected
		<b>146-HP2-663</b>	<b>11th Floor West Hall North Column</b>	None Detected-Plaster
				<b>1.3% Chrysotile PC-Joint Compound</b>
		146-HP2-664	12th Floor Room 1270	None Detected
		146-HP2-665	13th Floor Southeast Room	None Detected

**APPENDIX B (Cont.)**  
**ASBESTOS SURVEY SAMPLE LOCATION SUMMARY**

Center

HA No.	Material Description	Sample Number	Sample Location	Lab Results
147	Drywall	147-WB2-666	Basement Near Exit To Garage	None Detected
		147-WB2-667	1st Floor Tag Agency	None Detected
		147-WB2-668	1st Floor Hallmark	None Detected
		147-WB2-669	2nd Floor Middle Column	None Detected
		147-WB2-670	3rd Floor Southeast Office	None Detected
		147-WB2-671	4th Floor Computer Control Room	None Detected
		147-WB2-672	5th Floor	None Detected
		147-WB2-673	6th Floor Near North Entry From Elevators	None Detected
		147-WB2-674	7th Floor South Middle Room	None Detected
		147-WB2-675	8th Floor East Middle	None Detected
		147-WB2-676	9th Floor Kitchen	None Detected
		147-WB2-677	10th Floor Northeast	None Detected
		147-WB2-678	11th Floor East Hall 2nd To Last Room South	None Detected
		147-WB2-679	12th Floor 1270	None Detected
		147-WB2-680	13th Floor 1379	None Detected



**APPENDIX B (Cont.)**  
**ASBESTOS SURVEY SAMPLE LOCATION SUMMARY**

Center

HA No.	Material Description	Sample Number	Sample Location	Lab Results
148	Joint Compound	148-WB3-681	Basement Near Exit To Garage	None Detected
		148-WB3-682	1st Floor Tag Agency	None Detected
		<b>148-WB3-683</b>	<b>1st Floor Hallmark</b>	<b>1.8% Chrysotile PC</b>
		148-WB3-684	2nd Floor West Office	None Detected
		148-WB3-685	3rd Floor Exterior Of Northwest Office	None Detected
		148-WB3-686	4th Floor Computer Control Room	None Detected
		<b>148-WB3-687</b>	<b>5th Floor</b>	<b>1.7% Chrysotile PC</b>
		148-WB3-688	7th Floor South Middle Room	None Detected
		148-WB3-689	8th Floor West Exit	None Detected
		148-WB3-690	9th Floor North Entry	None Detected
		<b>148-WB3-691</b>	<b>10th Floor Room North Of Elevators</b>	<b>2.1% Chrysotile PC</b>
		148-WB3-692	11th Floor Break Area	None Detected
		<b>148-WB3-693</b>	<b>12th Floor 1270</b>	<b>3.2% Chrysotile PC</b>
		<b>148-WB3-694</b>	<b>13th Floor 1386</b>	<b>2.2% Chrysotile PC</b>

**APPENDIX B (Cont.)**  
**ASBESTOS SURVEY SAMPLE LOCATION SUMMARY**

Center

HA No.	Material Description	Sample Number	Sample Location	Lab Results
149	Wall Texture- Large Trowel	149-PL1-695	4th Floor	None Detected
		149-PL1-696	7th Floor South Middle Hall	None Detected
		149-PL1-697	7th Floor South Middle Room	None Detected
		149-PL1-698	8th Floor Hall	None Detected
		149-PL1-699	8th Floor North Office	None Detected
		149-PL1-700	8th Floor Hall	None Detected
		149-PL1-701	9th Floor Hall	None Detected
		149-PL1-702	9th Floor Hall	None Detected
		149-PL1-703	9th Floor Hall	None Detected
150	Wall Texture-6 <sup>th</sup> Floor	150-PL1-704	6th Floor North Hall	None Detected
		150-PL1-705	6th Floor Room 165	None Detected
		150-PL1-706	6th Floor West Hall	None Detected
		150-PL1-707	6th Floor Break Room	None Detected
		150-PL1-708	6th Floor Room 149	None Detected
		150-PL1-709	6th Floor South Hall	None Detected
		150-PL1-710	6th Floor East Hall	None Detected
151	Wall Texture-9 <sup>th</sup> Floor-Drip	151-PL1-711	9th Floor West Entry	None Detected
		151-PL1-712	9th Floor Southeast Office	None Detected
		151-PL1-713	9th Floor North In East Hall	None Detected
		151-PL1-714	9th Floor South Middle	None Detected
		151-PL1-715	9th Floor Northeast Office	None Detected
		151-PL1-716	9th Floor North Entry	None Detected
		151-PL1-717	9th Floor Northwest Office	None Detected

## APPENDIX B (Cont.)

### ASBESTOS SURVEY SAMPLE LOCATION SUMMARY

Center

HA No.	Material Description	Sample Number	Sample Location	Lab Results
156	Wall Texture-2 <sup>nd</sup> Floor	156-PL1-718	2nd Floor	None Detected
		156-PL1-719	2nd Floor	None Detected
		156-PL1-720	2nd Floor	None Detected
157	Wall Texture-Tag Agency (Same Texture as Feed the Children Tenant Space)	157-PL1-721	1st Floor Tag Agency	None Detected
		157-PL1-722	1st Floor Tag Agency	None Detected
158	Window Caulk	158-CA1-723	3rd Floor North Window	None Detected
		158-CA1-724	5th Floor North Window	None Detected
		158-CA1-725	14th Floor Northeast Room	3.1% Chrysotile PC
72	Spray Applied Fire Proofing	72-FP1-726	5th Floor East Unit Overspray	None Detected
146	Hard Finish Wall & Ceiling Plaster	146-HP2-727	14 <sup>th</sup> Floor	None Detected
147	Gypsum Wallboard	147-WB2-728	14 <sup>th</sup> Floor	None Detected
148	Joint Compound	148-WB3-729	6 <sup>th</sup> Floor	None Detected
		148-WB3-730	14 <sup>th</sup> Floor	2.6% Chrysotile PC

**APPENDIX B (Cont.)**  
**ASBESTOS SURVEY SAMPLE LOCATION SUMMARY**

**East**

HA No.	Material Description	Sample Number	Sample Location	Lab Results
159	Drywall -Old	159-WB2-731	Basement Far East Tenant Space	None Detected
		159-WB2-732	2nd Floor Center	None Detected-Drywall
				0.25% Chrysotile PC-Joint Compound
		159-WB2-733	3rd Floor Center	None Detected-Drywall
				<b>1.2% Chrysotile PC-Joint Compound</b>
		159-WB2-734	4th Floor Center	None Detected-Drywall
				<b>1.3% Chrysotile PC-Joint Compound</b>
		159-WB2-735	6th Floor Center	None Detected-Drywall
				Trace Chrysotile PC-Joint Compound
		159-WB2-736	7th Floor Center	None Detected
		159-WB2-737	8th Floor Center	None Detected
		159-WB2-738	13th Floor Electric Closet	None Detected
		159-WB2-739	14th Floor Electric Closet	None Detected
		159-WB2-740	15th Floor Elevator Room	None Detected

## APPENDIX B (Cont.)

### ASBESTOS SURVEY SAMPLE LOCATION SUMMARY

East

HA No.	Material Description	Sample Number	Sample Location	Lab Results
160	Joint Compound-Old	160-WB3-741	Basement Far East Tenant Space	2.1% Chrysotile PC
		160-WB3-742	2nd Floor Center	1.7% Chrysotile PC
		160-WB3-743	3rd Floor Center	1.3% Chrysotile PC
		160-WB3-744	4th Floor Center	1.5% Chrysotile PC
		160-WB3-745	5th Floor Next To Stairs In Hall	1.2% Chrysotile PC
		160-WB3-746	6th Floor Center	1.7% Chrysotile PC
		160-WB3-747	7th Floor Center	1.2% Chrysotile PC
		160-WB3-748	8th Floor Center	1.5% Chrysotile PC
		160-WB3-749	13th Floor Electric Closet	1.4% Chrysotile PC
		160-WB3-750	14th Floor Electric Room	1.2% Chrysotile PC
		160-WB3-751	15th Elevator Room	1.3% Chrysotile PC
88	Joint Compound-Circular Stairs	88-WB3-752	11th Floor Near Circular Stairs	None Detected
		88-WB3-753	12th Floor Near Circular Stairs	None Detected
161	Joint Compound-11 <sup>th</sup> Floor	161-WB3-754	11th Floor Northwest	1.3% Chrysotile PC
		161-WB3-755	11th Floor East	1.3% Chrysotile PC
		161-WB3-756	11th Floor Center	1.2% Chrysotile PC
162	Joint Compound-9 <sup>th</sup> Floor	162-WB3-757	9th Floor East	1.4% Chrysotile PC
		162-WB3-758	9th Floor Northeast Side	1.2% Chrysotile PC
		162-WB3-759	9th Floor South Middle	1.5% Chrysotile PC

**APPENDIX B (Cont.)**  
**ASBESTOS SURVEY SAMPLE LOCATION SUMMARY**

**East**

HA No.	Material Description	Sample Number	Sample Location	Lab Results
163	Drywall-New	163-WB2-760	1st Floor LT's	None Detected
		163-WB2-761	1st Floor Far East Suite	None Detected
		163-WB2-762	1st Floor Feed The Children	None Detected
		163-WB2-763	2nd Floor North	None Detected
		163-WB2-764	3rd Floor	None Detected
		163-WB2-765	5th Floor Near Electric Room	None Detected
		163-WB2-766	6th Floor	None Detected
		163-WB2-767	9th Floor North Side East Wall	None Detected
		163-WB2-768	11th Floor Northeast	None Detected
		163-WB2-769	13th Floor Server Room	None Detected
164	Joint Compound-New	164-WB3-770	1st Floor LT's	None Detected
		164-WB3-771	1st Floor Far East Suite	None Detected
		164-WB3-772	1st Floor Feed The Children	None Detected
		164-WB3-773	3rd Floor	None Detected
		164-WB3-774	5th Floor New Electric Room	None Detected
		164-WB3-775	6th Floor	None Detected
		<b>164-WB3-776</b>	<b>9th Floor North Side East Wall</b>	<b>1.5% Chrysotile PC</b>
		164-WB3-777	13th Floor Server Room	None Detected

## APPENDIX B (Cont.)

### ASBESTOS SURVEY SAMPLE LOCATION SUMMARY

#### East

HA No.	Material Description	Sample Number	Sample Location	Lab Results
165	Wall Texture-Large	165-PL1-778	LT's	None Detected
		165-PL1-779	LT's	None Detected
		165-PL1-780	Feed The Children	None Detected
		165-PL1-781	Feed The Children	None Detected
		165-PL1-782	Feed The Children	None Detected
		165-PL1-783	Feed The Children	None Detected
		165-PL1-784	Vapor Nuts	None Detected
166	Wall Texture-Far East Suite-1 <sup>st</sup> Floor	166-PL1-785	Far East Suite	None Detected
		166-PL1-786	Far East Suite	Insufficient Sample
		166-PL1-787	Far East Suite	None Detected
		166-PL1-788	Far East Suite	None Detected
		166-PL1-789	Far East Suite	None Detected
167	2' X 2' Ceiling Tile Red Back with Arrow	167-CT3-790	9th Floor	None Detected
		167-CT3-791	11th Floor	0.25% Chrysotile PC - Tile
<b>168</b>	<b>2' X 2' Ceiling Tile Brownish Red</b>	<b>168-CT3-792</b>	<b>Basement Hall At Escalator</b>	<b>1.2% Chrysotile PC - Tile</b>
		168-CT3-793	11th Floor	None Detected
<b>169</b>	<b>Fire Door</b>	<b>169-FD2-794</b>	<b>7th Floor Stairs</b>	<b>8.3% Amosite PC; 15% Chrysotile</b>
170	Mudded Joint –Domestic Water	170-MJ1-795	11th Floor Southwest Column	None Detected
		170-MJ1-796	11th Floor Southeast Column	None Detected



**APPENDIX B (Cont.)**  
**ASBESTOS SURVEY SAMPLE LOCATION SUMMARY**

**East**

HA No.	Material Description	Sample Number	Sample Location	Lab Results
171	Plastic Baffles	171-MS5-797	15th Floor Mechanical Room	None Detected
172	Breech/Flue Insulation	172-MI6-798	14th Floor Boiler Room	None Detected
173	Boiler Room Flooring	173-FC5-799	14th Floor Boiler Room	None Detected
<b>174</b>	<b>Paper Gaskets</b>	<b>174-PM2-800</b>	<b>14th Floor Boiler</b>	<b>90% Chrysotile</b>
175	Spray Applied Fire Proofing-New	175-FP1-801	15th Floor Elevator Room	None Detected
		175-FP1-802	15th Floor Elevator Room	None Detected
		175-FP1-803	15th Floor Elevator Room	None Detected
176	Spray Applied Fire Proofing-Old/Perimeter Columns	<b>176-FP1-804</b>	<b>3rd Floor Column Near Elevator</b>	<b>15% Chrysotile</b>
		<b>176-FP1-805</b>	<b>4th Floor Northeast</b>	<b>15% Chrysotile</b>
		<b>176-FP1-806</b>	<b>5th Floor Northwest Column</b>	<b>10% Chrysotile</b>
		<b>176-FP1-807</b>	<b>6th Floor West Center Column</b>	<b>15% Chrysotile</b>
		<b>176-FP1-808</b>	<b>7th Floor West Center Column</b>	<b>15% Chrysotile</b>
		<b>176-FP1-809</b>	<b>8th Floor West Duct Shaft</b>	<b>10% Chrysotile</b>
		<b>176-FP1-810</b>	<b>13th Floor South Center Column</b>	<b>15% Chrysotile</b>
		<b>176-FP1-811</b>	<b>14th Floor South Center Column</b>	<b>15% Chrysotile</b>
		<b>176-FP1-812</b>	<b>15th Floor Mechanical Room AHU2</b>	<b>15% Chrysotile</b>
		<b>176-FP1-813</b>	<b>5th Floor Northwest Column</b>	<b>15% Chrysotile</b>
177	Spray Applied Fire Proofing	177-FP1-814	1st Floor Feed The Children	None Detected

**APPENDIX B (Cont.)**  
**ASBESTOS SURVEY SAMPLE LOCATION SUMMARY**

**East**

HA No.	Material Description	Sample Number	Sample Location	Lab Results
178	Spray Applied Fire Proofing-Fluffy White	178-FP1-815	Basement West	None Detected
		178-FP1-816	Basement Northwest	None Detected
		178-FP1-817	Basement Northeast	None Detected
		178-FP1-818	Basement Center	None Detected
		178-FP1-819	Basement Southeast	None Detected
179	Spray Applied Fire Proofing-New	179-FP1-820	1st Floor Far East Suite	None Detected
		179-FP1-821	3rd Floor E Wing At South Wall	None Detected
		179-FP1-822	3rd Floor East Center	None Detected
		179-FP1-823	3rd Floor East Wing West Side	None Detected
		179-FP1-824	6th Floor	None Detected
		179-FP1-825	6th Floor	None Detected
		179-FP1-826	13th Floor Pipe Chase East Of Elevators	None Detected
180	Spray Applied Fire Proofing-New	180-FP1-827	4th Floor Electrical Closet	None Detected
		180-FP1-828	4th Floor Northeast	None Detected
		180-FP1-829	4th Floor East Center	None Detected
		180-FP1-830	4th Floor Southwest	None Detected
181	Spray Applied Fire Proofing-New	181-FP1-831	5th Floor Northeast	None Detected
		181-FP1-832	5th Floor East Center	None Detected
		181-FP1-833	5th Floor Northwest Corner	None Detected
		181-FP1-834	5th Floor Southwest	None Detected
		181-FP1-835	5th Floor Center Kitchen	None Detected

**APPENDIX B (Cont.)**  
**ASBESTOS SURVEY SAMPLE LOCATION SUMMARY**

**East**

HA No.	Material Description	Sample Number	Sample Location	Lab Results
182	Spray Applied Fire Proofing-New	182-FP1-836	6th Floor East Center	None Detected
		182-FP1-837	6th Floor West Center	None Detected
183	Spray Applied Fire Proofing-New	183-FP1-838	7th Floor West Center	None Detected
		183-FP1-839	7th Floor East Center	None Detected

## **APPENDIX C**

### **ASBESTOS ANALYTICAL LABORATORY DATA**

## Cover Letter

Feb 08, 2016

Terracon

Thank you for choosing iATL for your analytical needs. The Report herein along with the chain of custody contains details of (1) the transmittal of the samples from you to our laboratory, (2) the acceptance and analysis of the samples, (3) the supporting documentation tied to this project, (4) any QA notifications or communications, and (5) our invoice for this project. In addition:

- Please carefully look over these report deliverables and make sure that it meets your needs. Depending upon regulator and accrediting body limitations, you may have some choices for the formatting and data presentation beyond what follows. Please contact our customer service department for information on any options.
- You may intend for all, or select, samples in this submittal to move forward in the laboratory for other testing procedures. The batch sheet in this Report may list that authorization to proceed. Please login to our secure client portal and check this status or to confirm any additional analyses.
- If there are other offices, individuals, or customers who you think should receive this report – please send us that information and we will happily forward the report.

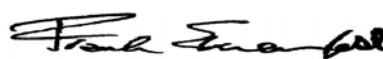
iATL is always seeking to improve our services and the customer experience. Any feedback that you can supply would benefit our commitment to quality. Please consider emailing any of the contacts on the next page of this report.

Finally, I wanted to take this opportunity to express our appreciation in your choice of iATL. We value our customers and seek to earn your business... one sample at a time.

Regards,



**Eric Snyder**  
President, iATL



**Frank Ehrenfeld**  
Laboratory  
Director, iATL

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105  
  
**Client:** TER845

**Report Date:** 2/8/2016  
**Report No.:** 501973 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033

### Appendix to Analytical Report:

**Customer Contact:**

**Analysis:** US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

**iATL Customer Service:** customerservice@iatl.com

**iATL Office Manager:** cdavis@iatl.com

**iATL Account Representative:** Alyssa Peiffer

**Project Summary:**

**Sample Login Notes:** See Batch Sheet Attached

**Sample Matrix:** Bulk Building Materials

**Exceptions Noted:** See Following Pages

**General Terms, Warrants, Limits, Qualifiers:**

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at [www.iATL.com](http://www.iATL.com) and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

**Information Pertinent to this Report:**

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certification: NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Project:** 1st National-West  
**Project No.:** 03167033

**Client:** TER845

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)  
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

### Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at [customerservice@iatl.com](mailto:customerservice@iatl.com).

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.

### Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gänge, homogeneous exfoliated books of mica, or mixed mineral composites).

IATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in



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**Client:** TER845

conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) [www.atsdr.cdc.gov](http://www.atsdr.cdc.gov), United States Geological Survey (USGS) [www.minerals.usgs.gov/minerals/](http://www.minerals.usgs.gov/minerals/), US EPA [www.epa.gov/asbestos](http://www.epa.gov/asbestos). The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1)**Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116  
**Requirements/Comments:** Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Floats" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Suspension" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

\*With advance notice and confirmation by the laboratory.

\*\*Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

## CERTIFICATE OF ANALYSIS

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**Report Date:** 2/8/2016  
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**Project:** 1st National-West  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5843731  
**Client No.:** 01-PL2-500

Percent Asbestos:  
*75 Chrysotile*

**Description:** Grey Insulation  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Boiler Rm Ceiling

Percent Non-Fibrous Material:  
25

**Lab No.:** 5843732  
**Client No.:** 03-HP2-501

Percent Asbestos:  
*None Detected*

**Description:** White Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 3rd Flr East Side

Percent Non-Fibrous Material:  
100

**Lab No.:** 5843732(L2)  
**Client No.:** 03-HP2-501

Percent Asbestos:  
*None Detected*

**Description:** Brown Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
2 Hair

**Location:** 3rd Flr East Side

Percent Non-Fibrous Material:  
98

**Lab No.:** 5843733  
**Client No.:** 03-HP2-502

Percent Asbestos:  
*None Detected*

**Description:** Brown Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
1 Hair

**Location:** 6th Flr West-N Janitor Closet

Percent Non-Fibrous Material:  
99

**Lab No.:** 5843734  
**Client No.:** 03-HP2-503

Percent Asbestos:  
*None Detected*

**Description:** White Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 9th Flr AHU Rm

Percent Non-Fibrous Material:  
100

**Lab No.:** 5843734(L2)  
**Client No.:** 03-HP2-503

Percent Asbestos:  
*None Detected*

**Description:** Brown Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
Trace Hair

**Location:** 9th Flr AHU Rm

Percent Non-Fibrous Material:  
100

**Lab No.:** 5843735  
**Client No.:** 03-HP2-504

Percent Asbestos:  
*None Detected*

**Description:** Brown Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
2 Hair

**Location:** 10th Flr N Janitor's Closet

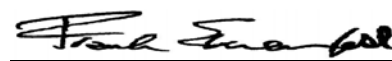
Percent Non-Fibrous Material:  
98

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/1/2016  
**Date Analyzed:** 2/6/2016 12:00:00 AM

**Signature:**   
**Analyst:** Linda Price

**Approved By:**

  
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/8/2016  
**Report No.:** 501973 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843736	<b>Description:</b> White Plaster	<b>Location:</b> 11th Flr AHU Rm
<b>Client No.:</b> 03-HP2-505	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 5843737	<b>Description:</b> White Plaster	<b>Location:</b> 12th Flr SW Corner
<b>Client No.:</b> 03-HP2-506	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 5843737(L2)	<b>Description:</b> Brown Mastic	<b>Location:</b> 12th Flr SW Corner
<b>Client No.:</b> 03-HP2-506	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


<b>Lab No.:</b> 5843738	<b>Description:</b> White Plaster	<b>Location:</b> 18th Flr
<b>Client No.:</b> 03-HP2-507	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


<b>Lab No.:</b> 5843738(L2)	<b>Description:</b> Brown Plaster	<b>Location:</b> 18th Flr
<b>Client No.:</b> 03-HP2-507	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	Trace Hair	100

<b>Lab No.:</b> 5843738(L3)	<b>Description:</b> Brown Plaster	<b>Location:</b> 18th Flr
<b>Client No.:</b> 03-HP2-507	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	5 Cellulose	95

<b>Lab No.:</b> 5843739	<b>Description:</b> White Plaster	<b>Location:</b> 19th Flr SE Corner
<b>Client No.:</b> 03-HP2-508	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/1/2016  
**Date Analyzed:** 2/6/2016 12:00:00 AM  
**Signature:**   
**Analyst:** Linda Price

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/8/2016  
**Report No.:** 501973 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5843739(L2)  
**Client No.:** 03-HP2-508

Percent Asbestos:  
*None Detected*

**Description:** Brown Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
Trace Hair

**Location:** 19th Flr SE Corner

Percent Non-Fibrous Material:  
100

**Lab No.:** 5843740  
**Client No.:** 10-CT1-509

Percent Asbestos:  
*None Detected*

**Description:** White/Grey Ceiling Tile; 1x1  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
5 Cellulose  
70 Mineral Wool

**Location:** 6th Flr NW

Percent Non-Fibrous Material:  
25

**Lab No.:** 5843740(L2)  
**Client No.:** 10-CT1-509

Percent Asbestos:  
*None Detected*

**Description:** Brown Mastic  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 6th Flr NW

Percent Non-Fibrous Material:  
100

**Lab No.:** 5843741  
**Client No.:** 10-CT1-510

Percent Asbestos:  
*None Detected*

**Description:** White Ceiling Tile; 1x1  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
80 Mineral Wool

**Location:** 12th Flr South

Percent Non-Fibrous Material:  
20

**Lab No.:** 5843741(L2)  
**Client No.:** 10-CT1-510

Percent Asbestos:  
*None Detected*

**Description:** Brown Mastic  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 12th Flr South

Percent Non-Fibrous Material:  
100

**Lab No.:** 5843742  
**Client No.:** 10-CT1-511

Percent Asbestos:  
*None Detected*

**Description:** White Ceiling Tile; 1x1  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
80 Mineral Wool

**Location:** 17th Flr Northeast Hall

Percent Non-Fibrous Material:  
20

**Lab No.:** 5843742(L2)  
**Client No.:** 10-CT1-511

Percent Asbestos:  
*PC 1.1 Chrysotile*


**Description:** Brown Mastic  
**Facility:**


Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 17th Flr Northeast Hall

Percent Non-Fibrous Material:  
98.9

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/1/2016  
**Date Analyzed:** 2/6/2016 12:00:00 AM  
**Signature:**   
**Analyst:** Linda Price

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105


**Report Date:** 2/8/2016  
**Report No.:** 501973 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033


**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843743 <b>Client No.:</b> 11-MG6-512	<b>Description:</b> Brown Mastic <b>Facility:</b>	<b>Location:</b> 4th Flr Northeast
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843744 <b>Client No.:</b> 11-MG6-513	<b>Description:</b> Brown Mastic <b>Facility:</b>	<b>Location:</b> 32nd Flr Kitchen
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843745 <b>Client No.:</b> 13-CT2-514	<b>Description:</b> White/Grey Ceiling Tile <b>Facility:</b>	<b>Location:</b> 4th Flr Southeast
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 70 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 30
<b>Lab No.:</b> 5843745(L2) <b>Client No.:</b> 13-CT2-514	<b>Description:</b> Brown/Black Mastic/Tar Paper <b>Facility:</b>	<b>Location:</b> 4th Flr Southeast
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 65 Cellulose	<u>Percent Non-Fibrous Material:</u> 35
<b>Lab No.:</b> 5843745(L3) <b>Client No.:</b> 13-CT2-514	<b>Description:</b> White Plaster <b>Facility:</b>	<b>Location:</b> 4th Flr Southeast
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose	<u>Percent Non-Fibrous Material:</u> 98
<b>Lab No.:</b> 5843746 <b>Client No.:</b> 69-MI4-515	<b>Description:</b> White/Grey Wrap/Insulation <b>Facility:</b>	<b>Location:</b> 12th Flr N AHU Rm
<u>Percent Asbestos:</u> <i>70 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	<u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 5843747 <b>Client No.:</b> 100-WB2-516	<b>Description:</b> White/Brown Sheetrock <b>Facility:</b>	<b>Location:</b> 3rd Flr SE Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose 2 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 88

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/1/2016  
**Date Analyzed:** 2/6/2016 12:00:00 AM  
**Signature:**   
**Analyst:** Linda Price

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/8/2016  
**Report No.:** 501973 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5843748  
**Client No.:** 100-WB2-517

**Description:** White/Brown Sheetrock/Joint Compound  
**Facility:**

**Location:** 6th Flr NE Hall

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
8 Cellulose

Percent Non-Fibrous Material:  
92

**Lab No.:** 5843749  
**Client No.:** 100-WB2-518

**Description:** White/Brown Sheetrock/Joint Compound  
**Facility:**

**Location:** 7th Flr NW Rm

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
8 Cellulose

Percent Non-Fibrous Material:  
92

**Lab No.:** 5843750  
**Client No.:** 100-WB2-519

**Description:** White/Brown Sheetrock  
**Facility:**

**Location:** 8th Flr Southwest Rm

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
10 Cellulose

Percent Non-Fibrous Material:  
90

**Lab No.:** 5843751  
**Client No.:** 100-WB2-520

**Description:** Off-White/Brown Sheetrock  
**Facility:**

**Location:** 10th Flr SE Entry To Office

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
10 Cellulose  
2 Fibrous Glass

Percent Non-Fibrous Material:  
88

**Lab No.:** 5843752  
**Client No.:** 100-WB2-521

**Description:** White/Brown Sheetrock  
**Facility:**

**Location:** 11th Flr SW Rm

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
8 Cellulose

Percent Non-Fibrous Material:  
92

**Lab No.:** 5843753  
**Client No.:** 100-WB2-522

**Description:** Off-White/Brown Sheetrock  
**Facility:**

**Location:** 12th Flr Office

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
5 Cellulose  
2 Fibrous Glass

Percent Non-Fibrous Material:  
93

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/1/2016  
**Date Analyzed:** 2/6/2016 12:00:00 AM

**Signature:**   
**Analyst:** Linda Price

**Approved By:**



Frank E. Ehrenfeld, III  
Laboratory Director



## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105


**Report Date:** 2/8/2016  
**Report No.:** 501973 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033

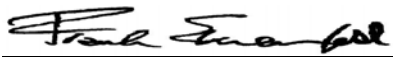
**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843754 <b>Client No.:</b> 100-WB2-523	<b>Description:</b> White/Brown Sheetrock <b>Facility:</b>	<b>Location:</b> 13th Flr
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	<u>Percent Non-Fibrous Material:</u> 90
<b>Lab No.:</b> 5843754(L2) <b>Client No.:</b> 100-WB2-523	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 13th Flr
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843754(L3) <b>Client No.:</b> 100-WB2-523	<b>Description:</b> Off-White Tape <b>Facility:</b>	<b>Location:</b> 13th Flr
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 95 Cellulose	<u>Percent Non-Fibrous Material:</u> 5
<b>Lab No.:</b> 5843755 <b>Client No.:</b> 101-WB3-524	<b>Description:</b> White/Brown Sheetrock/Joint Compound <b>Facility:</b>	<b>Location:</b> 3rd Flr SE Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	<u>Percent Non-Fibrous Material:</u> 90
<b>Lab No.:</b> 5843756 <b>Client No.:</b> 101-WB3-525	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 6th Flr NE Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843757 <b>Client No.:</b> 101-WB3-526	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 7th Flr NW Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843758 <b>Client No.:</b> 101-WB3-527	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 8th Flr SW Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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**Signature:**   
**Analyst:** Linda Price

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director



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4701 N.Stiles Ave.  
Oklahoma City OK 73105


**Report Date:** 2/8/2016  
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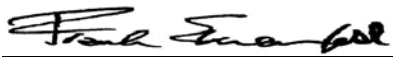
**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843759 <b>Client No.:</b> 101-WB3-528	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 10th Flr South Hall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843760 <b>Client No.:</b> 101-WB3-529	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 11th Flr SW Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843761 <b>Client No.:</b> 101-WB3-530	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 12th Flr South
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843762 <b>Client No.:</b> 101-WB3-531	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 13th Flr
<u>Percent Asbestos:</u> <i>PC 1.3 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 98.7
<b>Lab No.:</b> 5843762(L2) <b>Client No.:</b> 101-WB3-531	<b>Description:</b> Off-White Tape <b>Facility:</b>	<b>Location:</b> 13th Flr
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 98 Cellulose	<u>Percent Non-Fibrous Material:</u> 2
<b>Lab No.:</b> 5843763 <b>Client No.:</b> 101-WB3-532	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 18th Flr North
<u>Percent Asbestos:</u> <i>PC 1.2 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 98.8
<b>Lab No.:</b> 5843763(L2) <b>Client No.:</b> 101-WB3-532	<b>Description:</b> Off-White Tape <b>Facility:</b>	<b>Location:</b> 18th Flr North
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 95 Cellulose	<u>Percent Non-Fibrous Material:</u> 5

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Laboratory Director

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**Project No.:** 03167033


**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843764 <b>Client No.:</b> 102-PL1-533	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 6th Flr West Side Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843765 <b>Client No.:</b> 102-PL1-534	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 6th Flr North Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843766 <b>Client No.:</b> 102-PL1-535	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 6th Flr West Side Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843767 <b>Client No.:</b> 102-PL1-536	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 6th Flr North Side Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843768 <b>Client No.:</b> 102-PL1-537	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 6th Flr North Side Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843769 <b>Client No.:</b> 103-PL1-538	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 9th Flr West Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843770 <b>Client No.:</b> 103-PL1-539	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 9th Flr West Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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**Analyst:** Linda Price

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

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Oklahoma City OK 73105

**Report Date:** 2/8/2016  
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**Project:** 1st National-West  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843771	<b>Description:</b> White Texture	<b>Location:</b> 9th Flr West Wall
<b>Client No.:</b> 103-PL1-540	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 5843772	<b>Description:</b> White Texture	<b>Location:</b> 9th Flr West Wall
<b>Client No.:</b> 103-PL1-541	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 5843773	<b>Description:</b> White Texture	<b>Location:</b> 9th Flr Southwest Wall
<b>Client No.:</b> 103-PL1-542	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


<b>Lab No.:</b> 5843774	<b>Description:</b> White Texture	<b>Location:</b> 9th Flr North Wall
<b>Client No.:</b> 103-PL1-543	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


<b>Lab No.:</b> 5843774(L2)	<b>Description:</b> White/Brown Sheetrock	<b>Location:</b> 9th Flr North Wall
<b>Client No.:</b> 103-PL1-543	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	10 Cellulose	90

<b>Lab No.:</b> 5843775	<b>Description:</b> White Texture	<b>Location:</b> 9th Flr Southwest Corner Wall
<b>Client No.:</b> 103-PL1-544	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 5843776	<b>Description:</b> Off-White Texture	<b>Location:</b> 10th Flr West
<b>Client No.:</b> 104-PL1-545	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

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**Signature:**   
**Analyst:** Linda Price

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

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4701 N.Stiles Ave.  
Oklahoma City OK 73105


**Report Date:** 2/8/2016  
**Report No.:** 501973 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033


**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843777 <b>Client No.:</b> 104-PL1-546	<b>Description:</b> Off-White Texture <b>Facility:</b>	<b>Location:</b> 10th Flr West
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843778 <b>Client No.:</b> 104-PL1-547	<b>Description:</b> Off-White Texture <b>Facility:</b>	<b>Location:</b> 10th Flr South
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843779 <b>Client No.:</b> 104-PL1-548	<b>Description:</b> Off-White Texture <b>Facility:</b>	<b>Location:</b> 10th Flr South
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843780 <b>Client No.:</b> 104-PL1-549	<b>Description:</b> Off-White Texture <b>Facility:</b>	<b>Location:</b> 10th Flr West
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843781 <b>Client No.:</b> 104-PL1-550	<b>Description:</b> Off-White Texture <b>Facility:</b>	<b>Location:</b> 10th Flr N Hall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843782 <b>Client No.:</b> 104-PL1-551	<b>Description:</b> Off-White Texture <b>Facility:</b>	<b>Location:</b> 10th Flr N Hall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843783 <b>Client No.:</b> 105-PL1-552	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 11th Flr Northwest Corner
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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**Analyst:** Linda Price

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

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4701 N.Stiles Ave.  
Oklahoma City OK 73105


**Report Date:** 2/8/2016  
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**Project:** 1st National-West  
**Project No.:** 03167033


**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843784 <b>Client No.:</b> 105-PL1-553	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 11th Flr Northwest Corner
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843785 <b>Client No.:</b> 105-PL1-554	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 11th Flr Northwest Corner
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843786 <b>Client No.:</b> 106-PL1-555	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 12th Flr South Office Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843787 <b>Client No.:</b> 106-PL1-556	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 12th Flr South Office Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843788 <b>Client No.:</b> 106-PL1-557	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 12th Flr South Office Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843789 <b>Client No.:</b> 107-PL1-558	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> Rm 1236 Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843790 <b>Client No.:</b> 107-PL1-559	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 12th Flr West Side East Rm Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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**Project No.:** 03167033


**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843791 <b>Client No.:</b> 107-PL1-560	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 12th Flr West Hall Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843792 <b>Client No.:</b> 107-PL1-561	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 12th Flr West Side East Rm Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843793 <b>Client No.:</b> 107-PL1-562	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 12th Flr South Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843794 <b>Client No.:</b> 107-PL1-563	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 12th Flr NW Hall Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843795 <b>Client No.:</b> 107-PL1-564	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 12th Flr West Rm -West Side Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843796 <b>Client No.:</b> 108-PL1-565	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 12th Flr North Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843797 <b>Client No.:</b> 108-PL1-566	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 12th Flr North Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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**Analyst:** Linda Price

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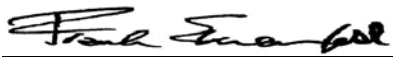
**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843798 <b>Client No.:</b> 108-PL1-567	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 12th Flr North Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843799 <b>Client No.:</b> 108-PL1-568	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 12th Flr North Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843800 <b>Client No.:</b> 108-PL1-569	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 12th Flr North Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843801 <b>Client No.:</b> 108-PL1-570	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 12th Flr North Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843802 <b>Client No.:</b> 108-PL1-571	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> 12th Flr North Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843803 <b>Client No.:</b> 109-FT2-572	<b>Description:</b> Tan Floor Tile; 12x12 <b>Facility:</b>	<b>Location:</b> 10th Flr Break Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843803(L2) <b>Client No.:</b> 109-FT2-572	<b>Description:</b> Yellow Mastic <b>Facility:</b>	<b>Location:</b> 10th Flr Break Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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**Date Received:** 2/1/2016  
**Date Analyzed:** 2/6/2016 12:00:00 AM  
**Signature:**   
**Analyst:** Linda Price

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director



## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/8/2016  
**Report No.:** 501973 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843804	<b>Description:</b> Tan Floor Tile; 12x12	<b>Location:</b> 10th Flr Break Rm
<b>Client No.:</b> 109-FT2-573	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 5843804(L2)	<b>Description:</b> Yellow Mastic	<b>Location:</b> 10th Flr Break Rm
<b>Client No.:</b> 109-FT2-573	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 5843805	<b>Description:</b> Tan Floor Tile; 12x12	<b>Location:</b> 10th Flr Break Rm
<b>Client No.:</b> 109-FT2-574	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


<b>Lab No.:</b> 5843805(L2)	<b>Description:</b> Yellow Mastic	<b>Location:</b> 10th Flr Break Rm
<b>Client No.:</b> 109-FT2-574	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


<b>Lab No.:</b> 5843806	<b>Description:</b> Yellow Mastic	<b>Location:</b> 10th Flr North
<b>Client No.:</b> 110-MG7-575	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 5843807	<b>Description:</b> Yellow/Black Mastic	<b>Location:</b> 10th Flr West
<b>Client No.:</b> 110-MG7-576	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 0.75 Chrysotile</i>	None Detected	99.25

<b>Lab No.:</b> 5843808	<b>Description:</b> Yellow/Black Mastic	<b>Location:</b> 10th Flr South
<b>Client No.:</b> 110-MG7-577	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 0.5 Chrysotile</i>	None Detected	99.5

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**Analyst:** Linda Price

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

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4701 N.Stiles Ave.  
Oklahoma City OK 73105


**Report Date:** 2/8/2016  
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**Project:** 1st National-West  
**Project No.:** 03167033


**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843809 <b>Client No.:</b> 111-FT2-578	<b>Description:</b> Off-White Floor Tile; 12x12 <b>Facility:</b>	<b>Location:</b> 11th Flr South Next To Electric Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843809(L2) <b>Client No.:</b> 111-FT2-578	<b>Description:</b> Yellow Mastic <b>Facility:</b>	<b>Location:</b> 11th Flr South Next To Electric Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843810 <b>Client No.:</b> 111-FT2-579	<b>Description:</b> Off-White Floor Tile; 12x12 <b>Facility:</b>	<b>Location:</b> 11th Flr South Next To Electric Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843810(L2) <b>Client No.:</b> 111-FT2-579	<b>Description:</b> Yellow Mastic <b>Facility:</b>	<b>Location:</b> 11th Flr South Next To Electric Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843811 <b>Client No.:</b> 111-FT2-580	<b>Description:</b> Off-White Floor Tile; 12x12 <b>Facility:</b>	<b>Location:</b> 11th Flr South Next To Electric Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843811(L2) <b>Client No.:</b> 111-FT2-580	<b>Description:</b> Yellow Mastic <b>Facility:</b>	<b>Location:</b> 11th Flr South Next To Electric Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843812 <b>Client No.:</b> 112-MG7-581	<b>Description:</b> Yellow Mastic <b>Facility:</b>	<b>Location:</b> 12th Flr Hall North
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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**Analyst:** Linda Price

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/8/2016  
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**Project:** 1st National-West  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843813	<b>Description:</b> Yellow Mastic	<b>Location:</b> 12th Flr Hall South
<b>Client No.:</b> 112-MG7-582	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 5843814	<b>Description:</b> Yellow Mastic	<b>Location:</b> 12th Flr Hall West
<b>Client No.:</b> 112-MG7-583	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 5843815	<b>Description:</b> Grey Floor Tile; 12x12	<b>Location:</b> 16th Flr SW Office
<b>Client No.:</b> 113-FT2-584	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1.2 Chrysotile</i>	None Detected	98.8


<b>Lab No.:</b> 5843815(L2)	<b>Description:</b> Black Mastic	<b>Location:</b> 16th Flr SW Office
<b>Client No.:</b> 113-FT2-584	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


<b>Lab No.:</b> 5843815(L3)	<b>Description:</b> Yellow Mastic	<b>Location:</b> 16th Flr SW Office
<b>Client No.:</b> 113-FT2-584	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 5843816	<b>Description:</b> Brown Floor Tile; 9x9	<b>Location:</b> 21st Flr-2101
<b>Client No.:</b> 114-FT1-585	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 2.3 Chrysotile</i>	None Detected	97.7

<b>Lab No.:</b> 5843816(L2)	<b>Description:</b> Black Mastic	<b>Location:</b> 21st Flr-2101
<b>Client No.:</b> 114-FT1-585	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1.8 Chrysotile</i>	None Detected	98.2

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**Approved By:**   
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Laboratory Director

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4701 N.Stiles Ave.  
Oklahoma City OK 73105

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**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5843817  
**Client No.:** 115-FT2-586

Percent Asbestos:  
*PC 2.2 Chrysotile*

**Description:** Tan/Brown Floor Tile; 12x12  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 23rd Flr NE Office Hall

Percent Non-Fibrous Material:  
97.8

**Lab No.:** 5843817(L2)  
**Client No.:** 115-FT2-586

Percent Asbestos:  
*None Detected*

**Description:** Yellow Mastic  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 23rd Flr NE Office Hall

Percent Non-Fibrous Material:  
100

**Lab No.:** 5843818  
**Client No.:** 116-FT2-587

Percent Asbestos:  
*None Detected*

**Description:** Blue/Grey Floor Tile; 12x12  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 25th Flr S Suite

Percent Non-Fibrous Material:  
100

**Lab No.:** 5843818(L2)  
**Client No.:** 116-FT2-587

Percent Asbestos:  
*PC 1.8 Chrysotile*

**Description:** Black Mastic  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 25th Flr S Suite

Percent Non-Fibrous Material:  
98.2

**Lab No.:** 5843819  
**Client No.:** 117-FC1-588

Percent Asbestos:  
*None Detected*

**Description:** Brown/Tan/Grey Vinyl Sheet  
Flooring  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
70 Cellulose

**Location:** 26th Flr NW Store Rm Next To  
Conference Rm

Percent Non-Fibrous Material:  
30

**Lab No.:** 5843819(L2)  
**Client No.:** 117-FC1-588

Percent Asbestos:  
*None Detected*

**Description:** Yellow Mastic  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 26th Flr NW Store Rm Next To  
Conference Rm

Percent Non-Fibrous Material:  
100

**Lab No.:** 5843819(L3)  
**Client No.:** 117-FC1-588

Percent Asbestos:  
*None Detected*

**Description:** Grey/Tan Tar Paper  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
90 Cellulose

**Location:** 26th Flr NW Store Rm Next To  
Conference Rm


Percent Non-Fibrous Material:  
10

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**Approved By:**

  
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/8/2016  
**Report No.:** 501973 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5843819(L4)  
**Client No.:** 117-FC1-588

Percent Asbestos:  
*None Detected*

**Description:** Brown Mastic  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 26th Flr NW Store Rm Next To  
Conference Rm  
Percent Non-Fibrous Material:  
100

**Lab No.:** 5843820  
**Client No.:** 118-FT1-589

Percent Asbestos:  
*PC 2.6 Chrysotile*

**Description:** Brown Floor Tile; 9x9  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 26th Flr SW Suite 2618  
Percent Non-Fibrous Material:  
97.4

**Lab No.:** 5843820(L2)  
**Client No.:** 118-FT1-589

Percent Asbestos:  
*PC 1.4 Chrysotile*

**Description:** Black Mastic  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 26th Flr SW Suite 2618  
Percent Non-Fibrous Material:  
98.6

**Lab No.:** 5843820(L3)  
**Client No.:** 118-FT1-589

Percent Asbestos:  
*None Detected*

**Description:** Yellow Mastic  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 26th Flr SW Suite 2618  
Percent Non-Fibrous Material:  
100

**Lab No.:** 5843821  
**Client No.:** 119-FC1-590

Percent Asbestos:  
*None Detected*

**Description:** Tan/Grey Floor Tile  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
60 Cellulose

**Location:** 26th Flr NE Rm  
Percent Non-Fibrous Material:  
40

**Lab No.:** 5843821(L2)  
**Client No.:** 119-FC1-590

Percent Asbestos:  
*None Detected*

**Description:** Yellow Mastic  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 26th Flr NE Rm  
Percent Non-Fibrous Material:  
100


**Lab No.:** 5843821(L3)  
**Client No.:** 119-FC1-590

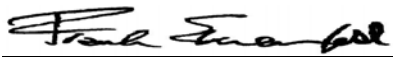
Percent Asbestos:  
*None Detected*

**Description:** Grey Tar Paper  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
85 Cellulose

**Location:** 26th Flr NE Rm  
Percent Non-Fibrous Material:  
15

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Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

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4701 N.Stiles Ave.  
Oklahoma City OK 73105


**Report Date:** 2/8/2016  
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**Project:** 1st National-West  
**Project No.:** 03167033


**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843822 <b>Client No.:</b> 120-FT2-591	<b>Description:</b> Tan Floor Tile; 12x12 <b>Facility:</b>	<b>Location:</b> 27th Flr S Cntr
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843822(L2) <b>Client No.:</b> 120-FT2-591	<b>Description:</b> Yellow Mastic <b>Facility:</b>	<b>Location:</b> 27th Flr S Cntr
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843823 <b>Client No.:</b> 121-FT2-592	<b>Description:</b> Tan Floor Tile; 12x12 <b>Facility:</b>	<b>Location:</b> 27th Flr SW Office Area
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843823(L2) <b>Client No.:</b> 121-FT2-592	<b>Description:</b> Yellow Mastic <b>Facility:</b>	<b>Location:</b> 27th Flr SW Office Area
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843824 <b>Client No.:</b> 122-FT2-593	<b>Description:</b> Tan Floor Tile; 12x12 <b>Facility:</b>	<b>Location:</b> 27th Flr N Office 2720
<u>Percent Asbestos:</u> <i>PC 1.8 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 98.2
<b>Lab No.:</b> 5843824(L2) <b>Client No.:</b> 122-FT2-593	<b>Description:</b> Yellow/Black Mastic <b>Facility:</b>	<b>Location:</b> 27th Flr N Office 2720
<u>Percent Asbestos:</u> <i>PC 1.2 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 98.8
<b>Lab No.:</b> 5843824(L3) <b>Client No.:</b> 122-FT2-593	<b>Description:</b> Yellow Mastic <b>Facility:</b>	<b>Location:</b> 27th Flr N Office 2720
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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**Analyst:** Linda Price

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Laboratory Director



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Oklahoma City OK 73105


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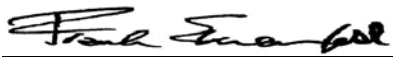
**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843825 <b>Client No.:</b> 123-FT2-594 <u>Percent Asbestos:</u> <b>PC 1.6 Chrysotile</b>	<b>Description:</b> Grey/Tan Floor Tile; 12x12 <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 29th Flr Kitchen <u>Percent Non-Fibrous Material:</u> 98.4
<b>Lab No.:</b> 5843825(L2) <b>Client No.:</b> 123-FT2-594 <u>Percent Asbestos:</u> <b>PC 1.2 Chrysotile</b>	<b>Description:</b> Black Mastic <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 3 Cellulose	<b>Location:</b> 29th Flr Kitchen <u>Percent Non-Fibrous Material:</u> 95.8
<b>Lab No.:</b> 5843826 <b>Client No.:</b> 124-FT2-595 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Black Floor Tile; 12x12 <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 30th Flr N Hall At Stairs <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843826(L2) <b>Client No.:</b> 124-FT2-595 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Gold Mastic <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 30th Flr N Hall At Stairs <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843826(L3) <b>Client No.:</b> 124-FT2-595 <u>Percent Asbestos:</u> <b>PC Trace Chrysotile</b>	<b>Description:</b> Black Floor Tile; 12x12 <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 30th Flr N Hall At Stairs <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843826(L4) <b>Client No.:</b> 124-FT2-595 <u>Percent Asbestos:</u> <b>PC 2.3 Chrysotile</b>	<b>Description:</b> Black Mastic <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 30th Flr N Hall At Stairs <u>Percent Non-Fibrous Material:</u> 97.7
<b>Lab No.:</b> 5843827 <b>Client No.:</b> 125-FT1-596 <u>Percent Asbestos:</u> <b>PC 2.1 Chrysotile</b>	<b>Description:</b> Black Floor Tile; 9x9 <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 31st Flr SE Corner <u>Percent Non-Fibrous Material:</u> 97.9

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**Signature:**   
**Analyst:** Linda Price

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director



## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105


**Report Date:** 2/8/2016  
**Report No.:** 501973 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033

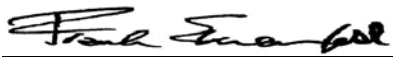
**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843827(L2) <b>Client No.:</b> 125-FT1-596	<b>Description:</b> Black Mastic <b>Facility:</b>	<b>Location:</b> 31st Flr SE Corner
<u>Percent Asbestos:</u> <i>PC 1.8 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 98.2
<b>Lab No.:</b> 5843828 <b>Client No.:</b> 126-PL1-597	<b>Description:</b> Off-White Texture <b>Facility:</b>	<b>Location:</b> 17th Flr N Cnt. Rm Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843829 <b>Client No.:</b> 126-PL1-598	<b>Description:</b> Off-White Texture <b>Facility:</b>	<b>Location:</b> 17th Flr N Cnt. Rm Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843830 <b>Client No.:</b> 126-PL1-599	<b>Description:</b> Off-White Texture <b>Facility:</b>	<b>Location:</b> 17th Flr N Cnt. Rm Wall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843831 <b>Client No.:</b> 127-MG5-600	<b>Description:</b> Tan Mastic <b>Facility:</b>	<b>Location:</b> 30th Flr Kitchen
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843832 <b>Client No.:</b> 127-MG5-601	<b>Description:</b> Tan Mastic <b>Facility:</b>	<b>Location:</b> 30th Flr Kitchen
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843833 <b>Client No.:</b> 128-FC5-602	<b>Description:</b> Brown/Tan Mastic/Tar Paper <b>Facility:</b>	<b>Location:</b> 6th Flr Rm N Of Elevators
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 80 Cellulose	<u>Percent Non-Fibrous Material:</u> 20

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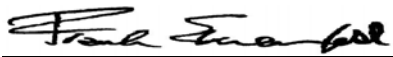
**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843834 <b>Client No.:</b> 130-PL2-603 <u>Percent Asbestos:</u> <b>PC 1.8 Chrysotile</b>	<b>Description:</b> Off-White Ceiling Texture <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 3 Cellulose	<b>Location:</b> 31st Flr N Side Lower Ceiling <u>Percent Non-Fibrous Material:</u> 95.2
<b>Lab No.:</b> 5843835 <b>Client No.:</b> 130-PL2-604 <u>Percent Asbestos:</u> <b>PC 2.5 Chrysotile</b>	<b>Description:</b> Off-White Ceiling Texture <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose	<b>Location:</b> 31st Flr E Side Upper Ceiling <u>Percent Non-Fibrous Material:</u> 95.5
<b>Lab No.:</b> 5843836 <b>Client No.:</b> 130-PL2-605 <u>Percent Asbestos:</u> <b>PC 1.6 Chrysotile</b>	<b>Description:</b> Off-White Ceiling Texture <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose	<b>Location:</b> 31st Flr Attic <u>Percent Non-Fibrous Material:</u> 96.4
<b>Lab No.:</b> 5843837 <b>Client No.:</b> 130-PL2-606 <u>Percent Asbestos:</u> <b>PC 5.6 Chrysotile</b>	<b>Description:</b> Grey Ceiling Texture <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 30 Mineral Wool	<b>Location:</b> 31st Flr At Duct Through Ceiling <u>Percent Non-Fibrous Material:</u> 64.4
<b>Lab No.:</b> 5843838 <b>Client No.:</b> 131-CT4-607 <u>Percent Asbestos:</u> <b>PC 1.1 Chrysotile</b>	<b>Description:</b> White/Tan/Pink Ceiling Tile; 2x4 <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 80 Mineral Wool	<b>Location:</b> 7th Flr Rm 703 <u>Percent Non-Fibrous Material:</u> 18.9
<b>Lab No.:</b> 5843839 <b>Client No.:</b> 131-CT4-608 <u>Percent Asbestos:</u> <b>PC Trace Amosite 1.8 Chrysotile</b>	<b>Description:</b> White/Tan/Pink Ceiling Tile; 2x4 <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 80 Mineral Wool	<b>Location:</b> 29th Flr Kitchen <u>Percent Non-Fibrous Material:</u> 18.2
<b>Lab No.:</b> 5843840 <b>Client No.:</b> 131-CT4-609 <u>Percent Asbestos:</u> <b>PC 1.3 Chrysotile</b>	<b>Description:</b> White/Tan/Pink Ceiling Tile; 2x4 <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 80 Mineral Wool	<b>Location:</b> 29th Flr Kitchen <u>Percent Non-Fibrous Material:</u> 18.7

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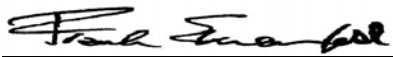
**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843841 <b>Client No.:</b> 132-CT1-610 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> White/Tan Ceiling Tile; 1x1 <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 40 Cellulose 30 Mineral Wool	<b>Location:</b> 18th Flr Middle <u>Percent Non-Fibrous Material:</u> 30
<b>Lab No.:</b> 5843841(L2) <b>Client No.:</b> 132-CT1-610 <u>Percent Asbestos:</u> <i>PC 0.75 Chrysotile</i>	<b>Description:</b> Brown Mastic <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 18th Flr Middle <u>Percent Non-Fibrous Material:</u> 99.25
<b>Lab No.:</b> 5843842 <b>Client No.:</b> 133-CT1-611 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> White/Tan Ceiling Tile; 1x1 <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose 70 Mineral Wool	<b>Location:</b> 18th Flr North East <u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 5843843 <b>Client No.:</b> 134-CT1-612 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> White/Brown Ceiling Tile; 1x1 <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 95 Cellulose	<b>Location:</b> 8th Flr SW <u>Percent Non-Fibrous Material:</u> 5
<b>Lab No.:</b> 5843843(L2) <b>Client No.:</b> 134-CT1-612 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Brown Mastic <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> Trace Other	<b>Location:</b> 8th Flr SW <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843844 <b>Client No.:</b> 134-CT1-613 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> White/Brown Ceiling Tile; 1x1 <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 95 Cellulose	<b>Location:</b> 12th Flr SW <u>Percent Non-Fibrous Material:</u> 5
<b>Lab No.:</b> 5843844(L2) <b>Client No.:</b> 134-CT1-613 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Brown Mastic <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> Trace Other	<b>Location:</b> 12th Flr SW <u>Percent Non-Fibrous Material:</u> 100

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**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843845 <b>Client No.:</b> 135-CT1-614	<b>Description:</b> White/Brown Ceiling Tile; 1x1 <b>Facility:</b>	<b>Location:</b> 6th Flr NE
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 95 Cellulose	<u>Percent Non-Fibrous Material:</u> 5
<b>Lab No.:</b> 5843845(L2) <b>Client No.:</b> 135-CT1-614	<b>Description:</b> Brown Mastic <b>Facility:</b>	<b>Location:</b> 6th Flr NE
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Other	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843846 <b>Client No.:</b> 135-CT1-615	<b>Description:</b> White/Brown Ceiling Tile; 1x1 <b>Facility:</b>	<b>Location:</b> 23rd Flr At Col. 14
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 95 Cellulose	<u>Percent Non-Fibrous Material:</u> 5
<b>Lab No.:</b> 5843846(L2) <b>Client No.:</b> 135-CT1-615	<b>Description:</b> Brown Mastic <b>Facility:</b>	<b>Location:</b> 23rd Flr At Col. 14
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843847 <b>Client No.:</b> 136-CT1-616	<b>Description:</b> White/Brown Ceiling Tile; 1x1 <b>Facility:</b>	<b>Location:</b> 24th Flr SE Office
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 95 Cellulose	<u>Percent Non-Fibrous Material:</u> 5
<b>Lab No.:</b> 5843847(L2) <b>Client No.:</b> 136-CT1-616	<b>Description:</b> Brown Mastic <b>Facility:</b>	<b>Location:</b> 24th Flr SE Office
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843848 <b>Client No.:</b> 137-CT1-617	<b>Description:</b> White/Tan Ceiling Tile; 1x1 <b>Facility:</b>	<b>Location:</b> 20th Flr East Center Rm
<u>Percent Asbestos:</u> <b>PC 1.6 Amosite</b>	<u>Percent Non-Asbestos Fibrous Material:</u> 30 Cellulose 30 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 38.4

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Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

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4701 N.Stiles Ave.  
Oklahoma City OK 73105


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**Project:** 1st National-West  
**Project No.:** 03167033


**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843848(L2) <b>Client No.:</b> 137-CT1-617	<b>Description:</b> Brown Mastic <b>Facility:</b>	<b>Location:</b> 20th Flr East Center Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843849 <b>Client No.:</b> 138-CT1-618	<b>Description:</b> White/Grey Ceiling Tile; 1x1 <b>Facility:</b>	<b>Location:</b> 30th Flr Center At Entry To Restaurant
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 70 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 30
<b>Lab No.:</b> 5843850 <b>Client No.:</b> 139-AW5-619	<b>Description:</b> Black Tar Paper <b>Facility:</b>	<b>Location:</b> 30th Flr Kitchen
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 80 Cellulose	<u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 5843850(L2) <b>Client No.:</b> 139-AW5-619	<b>Description:</b> Yellow Insulation <b>Facility:</b>	<b>Location:</b> 30th Flr Kitchen
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 100 Mineral Wool	<u>Percent Non-Fibrous Material:</u> None Detected
<b>Lab No.:</b> 5843851 <b>Client No.:</b> 140-MI4-620	<b>Description:</b> White/Brown Woven Material <b>Facility:</b>	<b>Location:</b> 9th Flr AHU Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 90 Cellulose	<u>Percent Non-Fibrous Material:</u> 10
<b>Lab No.:</b> 5843852 <b>Client No.:</b> 141-MI4-621	<b>Description:</b> Black/Brown Tar Paper <b>Facility:</b>	<b>Location:</b> 31st Flr Attic
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 50 Cellulose	<u>Percent Non-Fibrous Material:</u> 50
<b>Lab No.:</b> 5843852(L2) <b>Client No.:</b> 141-MI4-621	<b>Description:</b> Yellow Insulation <b>Facility:</b>	<b>Location:</b> 31st Flr Attic
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 100 Mineral Wool	<u>Percent Non-Fibrous Material:</u> None Detected

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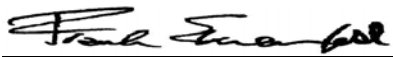
**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843853 <b>Client No.:</b> 141-MI4-622	<b>Description:</b> Black Tar Paper <b>Facility:</b>	<b>Location:</b> 31st Flr Attic
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 40 Cellulose 5 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 55
<b>Lab No.:</b> 5843854 <b>Client No.:</b> 142-MI3-623	<b>Description:</b> Grey/Brown Insulation <b>Facility:</b>	<b>Location:</b> 33rd Flr S Side
<u>Percent Asbestos:</u> <i>75 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose	<u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 5843855 <b>Client No.:</b> 143-CA1-624	<b>Description:</b> Grey/Brown Caulk <b>Facility:</b>	<b>Location:</b> 32nd Flr N Kitchen
<u>Percent Asbestos:</u> <i>PC 2.4 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 97.6
<b>Lab No.:</b> 5843856 <b>Client No.:</b> 144-PM5-625	<b>Description:</b> Grey/Black Insulation <b>Facility:</b>	<b>Location:</b> 8th Flr NE Rm
<u>Percent Asbestos:</u> <i>80 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 5843857 <b>Client No.:</b> 144-PM5-626	<b>Description:</b> Grey Insulation <b>Facility:</b>	<b>Location:</b> 27th Flr W Cnt
<u>Percent Asbestos:</u> <i>80 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 5843858 <b>Client No.:</b> 144-PM5-627	<b>Description:</b> Grey Insulation <b>Facility:</b>	<b>Location:</b> 27th Flr SW Office Area
<u>Percent Asbestos:</u> <i>75 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 25
<b>Lab No.:</b> 5843859 <b>Client No.:</b> 145-CP5-628	<b>Description:</b> Grey/Black Transite <b>Facility:</b>	<b>Location:</b> 17th Flr W Cnt
<u>Percent Asbestos:</u> <i>40 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 60

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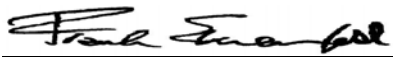
**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843860 <b>Client No.:</b> 146-FD5-629	<b>Description:</b> Grey Insulation <b>Facility:</b>	<b>Location:</b> 31st Flr Men's RR At Stairs
<u>Percent Asbestos:</u> <b>80 Chrysotile</b>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 5843861 <b>Client No.:</b> 147-CP5-630	<b>Description:</b> Grey Transite <b>Facility:</b>	<b>Location:</b> 13th Flr Roof NE
<u>Percent Asbestos:</u> <b>25 Chrysotile</b>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 75
<b>Lab No.:</b> 5843862 <b>Client No.:</b> 03-HP2-631	<b>Description:</b> Brown Plaster <b>Facility:</b>	<b>Location:</b> 25th Flr
<u>Percent Asbestos:</u> <b>None Detected</b>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Hair	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843863 <b>Client No.:</b> 03-HP2-632	<b>Description:</b> Brown Plaster <b>Facility:</b>	<b>Location:</b> 30th Flr
<u>Percent Asbestos:</u> <b>None Detected</b>	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Hair	<u>Percent Non-Fibrous Material:</u> 99
<b>Lab No.:</b> 5843864 <b>Client No.:</b> 03-HP2-633	<b>Description:</b> Brown Plaster <b>Facility:</b>	<b>Location:</b> 31st Flr
<u>Percent Asbestos:</u> <b>None Detected</b>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Hair	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843865 <b>Client No.:</b> 03-HP2-634	<b>Description:</b> Brown Plaster <b>Facility:</b>	<b>Location:</b> 32nd Flr
<u>Percent Asbestos:</u> <b>None Detected</b>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Hair	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843866 <b>Client No.:</b> 100-WB2-635	<b>Description:</b> White/Brown Sheetrock <b>Facility:</b>	<b>Location:</b> 25th Flr
<u>Percent Asbestos:</u> <b>None Detected</b>	<u>Percent Non-Asbestos Fibrous Material:</u> 8 Cellulose Trace Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 92

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/1/2016  
**Date Analyzed:** 2/6/2016 12:00:00 AM  
**Signature:**   
**Analyst:** Linda Price

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director



## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105


**Report Date:** 2/8/2016  
**Report No.:** 501973 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033


**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5843867 <b>Client No.:</b> 100-WB2-636	<b>Description:</b> White Sheetrock <b>Facility:</b>	<b>Location:</b> 20th Flr
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Cellulose	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5843868 <b>Client No.:</b> 100-WB2-637	<b>Description:</b> White Sheetrock <b>Facility:</b>	<b>Location:</b> 27th Flr
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose	<u>Percent Non-Fibrous Material:</u> 98
<b>Lab No.:</b> 5843869 <b>Client No.:</b> 100-WB2-638	<b>Description:</b> Off-White Sheetrock <b>Facility:</b>	<b>Location:</b> 29th Flr
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose	<u>Percent Non-Fibrous Material:</u> 95
<b>Lab No.:</b> 5843870 <b>Client No.:</b> 100-WB2-639	<b>Description:</b> Off-White Sheetrock <b>Facility:</b>	<b>Location:</b> 30th Flr
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose	<u>Percent Non-Fibrous Material:</u> 95
<b>Lab No.:</b> 5843871 <b>Client No.:</b> 100-WB2-640	<b>Description:</b> Off-White Sheetrock <b>Facility:</b>	<b>Location:</b> 31st Flr
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 8 Cellulose	<u>Percent Non-Fibrous Material:</u> 92
<b>Lab No.:</b> 5843872 <b>Client No.:</b> 100-WB2-641	<b>Description:</b> Off-White Sheetrock <b>Facility:</b>	<b>Location:</b> 32nd Flr
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 8 Cellulose	<u>Percent Non-Fibrous Material:</u> 92
<b>Lab No.:</b> 5843873 <b>Client No.:</b> 101-WB3-642	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 26th Flr
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/1/2016  
**Date Analyzed:** 2/6/2016 12:00:00 AM  
**Signature:**   
**Analyst:** Linda Price

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/8/2016  
**Report No.:** 501973 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5843874  
**Client No.:** 101-WB3-643

Percent Asbestos:  
*None Detected*

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 27th Flr

Percent Non-Fibrous Material:  
100

**Lab No.:** 5843875  
**Client No.:** 101-WB3-644

Percent Asbestos:  
*None Detected*

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 29th Flr

Percent Non-Fibrous Material:  
100

**Lab No.:** 5843876  
**Client No.:** 101-WB3-645

Percent Asbestos:  
*None Detected*

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 30th Flr

Percent Non-Fibrous Material:  
100

**Lab No.:** 5843877  
**Client No.:** 101-WB3-646

Percent Asbestos:  
*None Detected*

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 32nd Flr

Percent Non-Fibrous Material:  
100

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/1/2016  
**Date Analyzed:** 2/6/2016 12:00:00 AM

**Signature:**   
**Analyst:** Linda Price

**Approved By:**



Frank E. Ehrenfeld, III  
Laboratory Director

## Chain of Custody, Building Inspection Form

Project Site Name/Building Name: <u>1<sup>st</sup> National - West</u>					Project No.: <u>03167033</u>			
Date: <u>1/29/16</u>			Inspector(s): <u>Stacey Fowler</u>		send results to : <u>scfowler@terracon.com</u>			
HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>	
01	PL2-500	Boiler room ceiling	5843731	above center boiler	F	G	NPD	
	TSI				Cat I.	D	PD	
	M				Cat II.	SD	PSD	
03	HP2-501	Hard plaster walls & ceiling	5843732	3 <sup>rd</sup> floor east side	F	G	NPD	
	502				TSI	Cat I.	D	PD
	503				M	Cat II.	SD	PSD
	504		5843735	10 <sup>th</sup> floor N. janitor's closet	F	G	NPD	
	505				TSI	Cat I.	D	PD
	506				M	Cat II.	SD	PSD
	507		5843737	12 <sup>th</sup> floor - SW corner	F	G	NPD	
	508				TSI	Cat I.	D	PD
					M	Cat II.	SD	PSD
10	CT1-509	1'x1' wavy ceiling tile & glue dot	5843740	6 <sup>th</sup> floor NW	F	G	NPD	
	510				TSI	Cat I.	D	PD
	511				M	Cat II.	SD	PSD
11	MG6-512	glue dot	5843742	17 <sup>th</sup> floor Northeast hall	F	G	NPD	
	513				TSI	Cat I.	D	PD
					M	Cat II.	SD	PSD
13	CT2-514	1'x2' brick pattern ceiling tile & adhesive	5843745	4 <sup>th</sup> floor South east	F	G	NPD	
					TSI	Cat I.	D	PD
					M	Cat II.	SD	PSD
69	MI4-515	duct insulation	5843746	12 <sup>th</sup> floor N. AHU room	F	G	NPD	
					TSI	Cat I.	D	PD
					M	Cat II.	SD	PSD
100 80 sub	WB2-516	drywall	5843747	3 <sup>rd</sup> floor - SE room	F	G	NPD	
	517				TSI	Cat I.	D	PD
	518				M	Cat II.	SD	PSD
			5843748	6 <sup>th</sup> floor NE Hall				
			5843749	7 <sup>th</sup> floor NW room				

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2. F = Friable; CAT I = Category I Nonfriable (packing, gaskets, resilient floor covering, and roofing products); or CAT II = Category II Nonfriable

3. G = Good (<1%); D = Damaged (<10%); or SD = Significantly Damaged (>10% overall or >25% localized)  
4. NPD = No Potential for Disturbance; PD = Potential for Disturbance; or PSD = Potential for Significant Disturbance

Turnaround Time: Rush _____ 24 Hr. _____ 72Hr. <input checked="" type="checkbox"/> Standard(5day)		Positive Stop: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Relinquished By: <u>Stacey Fowler</u>	Date/Time: <u>1/29/16 5pm</u>
Comments: <u>Delivered 2-8-16</u> <u>IATL - By</u>			Received By: <u>Stacey Fowler</u>	Date/Time: <u>1/29/16 5pm</u>

IATL - By

LSP 2-6-16

(147)



4701 N. Stiles Ave.  
Oklahoma City, Oklahoma 73105  
(405) 525-0453 Office  
(405) 557-0549 Fax

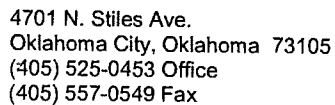
# Chain of Custody, Building Inspection Form

Project Site Name/Building Name: <u>1<sup>st</sup> National - West</u>				Project No.: <u>0316 7033</u>			
Date: <u>1/24/16</u>			Inspector(s): <u>Stacey Fowler</u>		send results to : <u>scfowler@terracon.com</u>		
HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>
<u>100</u> <u>SD</u> <u>SLP</u>	<u>WS2 - 519</u>	<u>dry wall</u>	<u>5843750</u>	<u>8th floor Southwest room</u>	<u>F</u>	<u>G</u>	<u>NPD</u>
	<u>520</u>		<u>5843751</u>	<u>10th floor SE entry to office</u>	<u>Cat I.</u>	<u>D</u>	<u>PD</u>
	<u>521</u>		<u>5843752</u>	<u>11th floor SW room</u>	<u>Cat II.</u>	<u>SD</u>	<u>PSD</u>
	<u>522</u>		<u>5843753</u>	<u>12th floor office</u>	<u>F</u>	<u>G</u>	<u>NPD</u>
	<u>523</u>		<u>5843754</u>	<u>13th floor</u>	<u>Cat I.</u>	<u>D</u>	<u>PD</u>
					<u>Cat II.</u>	<u>SD</u>	<u>PSD</u>
<u>101</u> <u>SLP</u>	<u>WS3 - 524</u>		<u>5843755</u>	<u>3rd floor SE room</u>	<u>F</u>	<u>G</u>	<u>NPD</u>
	<u>525</u>		<u>5843756</u>	<u>6th floor NE room</u>	<u>Cat I.</u>	<u>D</u>	<u>PD</u>
	<u>526</u>		<u>5843757</u>	<u>7th floor NW room</u>	<u>Cat II.</u>	<u>SD</u>	<u>PSD</u>
	<u>527</u>		<u>5843758</u>	<u>8th floor SW room</u>	<u>F</u>	<u>G</u>	<u>NPD</u>
	<u>528</u>		<u>5843759</u>	<u>10th floor South hall</u>	<u>Cat I.</u>	<u>D</u>	<u>PD</u>
	<u>529</u>		<u>5843760</u>	<u>11th floor SW room</u>	<u>Cat II.</u>	<u>SD</u>	<u>PSD</u>
	<u>530</u>		<u>5843761</u>	<u>12th floor South</u>	<u>F</u>	<u>G</u>	<u>NPD</u>
	<u>531</u>		<u>5843762</u>	<u>13th floor</u>	<u>Cat I.</u>	<u>D</u>	<u>PD</u>
	<u>532</u>		<u>5843763</u>	<u>14th floor North</u>	<u>Cat II.</u>	<u>SD</u>	<u>PSD</u>
<u>102</u> <u>SLP</u>	<u>PL1 - 533</u>	<u>6th floor wall texture</u>	<u>5843764</u>	<u>6th floor - west side</u>	<u>F</u>	<u>G</u>	<u>NPD</u>
	<u>534</u>		<u>5843765</u>	<u>6th floor - North</u>	<u>Cat I.</u>	<u>D</u>	<u>PD</u>
	<u>535</u>		<u>5843766</u>	<u>6th floor - west side</u>	<u>Cat II.</u>	<u>SD</u>	<u>PSD</u>
	<u>536</u>		<u>5843767</u>	<u>6th floor - North side</u>	<u>F</u>	<u>G</u>	<u>NPD</u>
	<u>537</u>		<u>5843768</u>	<u>6th floor - North side</u>	<u>Cat I.</u>	<u>D</u>	<u>PD</u>
					<u>Cat II.</u>	<u>SD</u>	<u>PSD</u>
<u>103</u> <u>SLP</u>	<u>PL1 - 538</u>	<u>hall texture 9th floor</u>	<u>5843769</u>	<u>9th floor West</u>	<u>F</u>	<u>G</u>	<u>NPD</u>
	<u>539</u>		<u>5843770</u>	<u>9th floor West</u>	<u>Cat I.</u>	<u>D</u>	<u>PD</u>
	<u>540</u>		<u>5843771</u>	<u>9th floor West</u>	<u>Cat II.</u>	<u>SD</u>	<u>PSD</u>
	<u>541</u>		<u>5843772</u>	<u>9th floor West</u>	<u>F</u>	<u>G</u>	<u>NPD</u>
	<u>542</u>		<u>5843773</u>	<u>9th floor Southwest</u>	<u>Cat I.</u>	<u>D</u>	<u>PD</u>
	<u>543</u>		<u>5843774</u>	<u>9th floor North hall</u>	<u>Cat II.</u>	<u>SD</u>	<u>PSD</u>

1. M = Miscellaneous; S = Surfacing; or TSI = Thermal Systems Insulation  
2. F = Friable; CAT I = Category I Nonfriable (packing, gaskets, resilient floor covering, and roofing products); or CAT II = Category II Nonfriable

3. G = Good (<1%); D = Damaged (<10%); or SD = Significantly Damaged (>10% overall or >25% localized)  
4. NPD = No Potential for Disturbance; PD = Potential for Disturbance; or PSD = Potential for Significant Disturbance

Turnaround Time: Rush _____ 24 Hr. _____ 72 Hr. <u>X</u> Standard(5day)		Positive Stop: Yes _____ No <u>X</u>	Relinquished By: <u>Stacey Fowler</u>	Date/Time: <u>1/24/16 8pm</u>
Comments:			Received By:	Date/Time:



4701 N. Stiles Ave.  
Oklahoma City, Oklahoma 73105  
(405) 525-0453 Office  
(405) 557-0549 Fax

Project Site Name/Building Name:			Project No.:	
Date:			Inspector(s):	
HA No./ Sample No.			Material	
Mat. Class. <sup>1</sup>			Location/Description/Quantities	
Quantity			Material Sample Location	
Friability <sup>2</sup>			Phy. Cond. <sup>3</sup>	
Pot. For Disturb. <sup>4</sup>				
103	PL1 - 544	S	4th floor wall texture	5843775 - South west corner
83		TSI		
104	PL1 - 545	S	10th floor texture	5843776 10th floor - west
84	546	TSI		5843777 10th floor west
	547	M		5843778 10th floor south
	548	S		5843779 10th floor south
	549	TSI		5843780 10th floor west
	550	M		5843781 10th floor N. Hall
	551	S		5843782 10th floor N. Hall
		TSI		
		M		
105	PL1 - 552	S	11th floor texture	5843783 11th floor North west corner
85	553	TSI		5843784 11th floor North west corner
	554	M		5843785 11th floor North west corner
106	PL1 - 555	S	wall texture - south office	5843786 12th floor South office
86	556	TSI		5843787 12th floor South office
	557	M		5843788 12th floor South office
107	PL1 - 558	S	wall texture - 10th floor	5843789 Room 1236
87	559	TSI		5843790 12th floor west side east room
	560	M		5843791 12th floor West hall
	561	S		5843792 12th floor West side east room
	562	TSI		5843793 12th floor South hall
	563	M		5843794 12th floor NW hall
	564	S		5843795 12th floor West room - west side
		TSI		
		M		

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4. NPD = No Potential for Disturbance; PD = Potential for Disturbance; or PSD = Potential for Significant Disturbance

Turnaround Time:	Positive Stop:	Relinquished By:	Date/Time:
<input type="checkbox"/> Rush <input type="checkbox"/> 24 Hr. <input type="checkbox"/> 72 Hr. <input checked="" type="checkbox"/> Standard(5day)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	[Signature] Received By:	(1/24/16 5pm)
Comments:		Date/Time:	

## Chain of Custody Building Inspection Form

Project Site Name/Building Name: <u>1st National - West</u>					Project No.: <u>03167033</u>			
Date: <u>1/24/16</u>			Inspector(s): <u>Stacey Fowler</u>		send results to : <u>scfowler@terracon.com</u>			
HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>	
108 88	PLI - 565	large wall texture	5843796	12th floor North	F	G	NPD	
	566		TSI	5843797	12th floor North	Cat I.	D	PD
	567		M	5843798	12th floor North	Cat II.	SD	PSD
	568		S	5843799	12th floor North	F	G	NPD
	569	TSI	5843800	12th floor North	Cat I.	D	PD	
	570	M	5843801	12th floor North	Cat II.	SD	PSD	
	571	S	5843802	12th floor North	F	G	NPD	
		TSI			Cat I.	D	PD	
					Cat II.	SD	PSD	
109 88	FT2 - 572	12" x 12" light tan floor tile & adhesive	5843803	10th floor break room	F	G	NPD	
	573		TSI	5843804	10th floor break room	Cat I.	D	PD
	574		M	5843805	10th floor break room	Cat II.	SD	PSD
110 98	ME7 - 575	carpet adhesive	5843806	10th floor North	F	G	NPD	
	576		TSI	5843807	10th floor West	Cat I.	D	PD
	577		M	5843808	10th floor South	Cat II.	SD	PSD
111	FT2 - 578	12" x 12" floor tile adhesive "gray"	5843809	11th floor south next to electric room	F	G	NPD	
	579		TSI	5843810	11th floor south next to electric room	Cat I.	D	PD
	580		M	5843811	11th floor South next to electric room	Cat II.	SD	PSD
112	ME7 - 581	yellow carpet adhesive	5843812	12th floor hall - North	F	G	NPD	
	582		TSI	5843813	12th floor hall - South	Cat I.	D	PD
	583		M	5843814	12th floor hall - West	Cat II.	SD	PSD
113	FT2 - 584	12" x 12" floor tile adhesive "wt gray"	5843815	10th floor S.W. office	F	G	NPD	
			TSI			Cat I.	D	PD
			M			Cat II.	SD	PSD
114	FT1 - 585	4" x 9" floor tile & mastic blum	5843816	21st floor - 2101	F	G	NPD	
			TSI			Cat I.	D	PD
					Cat II.	SD	PSD	

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Turnaround Time: Rush _____ 24 Hr. _____ 72 Hr. <input checked="" type="checkbox"/> Standard(5day)	Positive Stop: Yes _____ No <input checked="" type="checkbox"/>	Relinquished By: <u>Stacey Fowler</u>	Date/Time: <u>1/24/15 5pm</u>
Comments:		Received By:	Date/Time:

## Chain of Custody, Building Inspection Form

Project Site Name/Building Name: <u>1st National - West</u>					Project No.: <u>03167033</u>			
Date: <u>1/24/16</u>			Inspector(s): <u>Stacey Fowler</u>		send results to : <u>scfowler@terracon.com</u>			
HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>	
115	FT2-586	12"x12" floor tile & mastic	5843817	23rd floor NE office hall	F	G	NPD	
		14" x 14" wood			Cat I.	D	PD	
					Cat II.	SD	PSD	
116	FT2-587	12"x12" floor tile & mastic	5843818	25th floor S. suite	F	G	NPD	
		gray/blue			Cat I.	D	PD	
					Cat II.	SD	PSD	
117	FCI-588	gray sheet vinyl flooring	5843819	26th floor NW storage room next to entrance room	F	G	NPD	
					Cat I.	D	PD	
					Cat II.	SD	PSD	
118	FT1-589	9"x9" floor tile & mastic	5843820	26th floor SW suite 2618	F	G	NPD	
		brown			Cat I.	D	PD	
					Cat II.	SD	PSD	
119	FCI-590	sheet vinyl flooring	5843821	26th floor NE room	F	G	NPD	
		gray			Cat I.	D	PD	
					Cat II.	SD	PSD	
120	FT2-591	12"x12" floor tile & mastic	5843822	27th floor S. apt	F	G	NPD	
		tan w/ brown under 12x12 tile			Cat I.	D	PD	
					Cat II.	SD	PSD	
121	FT2-592	12x12 brown floor tile	5843823	27th floor SW office area	F	G	NPD	
		adhesive			Cat I.	D	PD	
					Cat II.	SD	PSD	
122	FT2-593	12x12 floor tile & mastic	5843824	27th floor N office 2720	F	G	NPD	
		wt.			Cat I.	D	PD	
					Cat II.	SD	PSD	
123	FT2-594	12x12 floor tile & mastic	5843825	29th floor kitchen	F	G	NPD	
		tan			Cat I.	D	PD	
					Cat II.	SD	PSD	

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4. NPD = No Potential for Disturbance; PD = Potential for Disturbance; or PSD = Potential for Significant Disturbance

Turnaround Time: Rush _____ 24 Hr. _____ 72 Hr. <input checked="" type="checkbox"/> Standard(5day)	Positive Stop: Yes _____ No <input checked="" type="checkbox"/>	Relinquished By: <u>Stacey Fowler</u>	Date/Time: <u>1/24/16 5pm</u>
Comments: <u>★ Labeled "11a" - iAR # corresponds to material loc/des/quantities + sample location - m 2/2/16</u>		Received By: <u>15P2-216</u>	Date/Time: <u>2-8-16</u>





4701 N. Stiles Ave.  
Oklahoma City, Oklahoma 73105  
(405) 525-0453 Office  
(405) 557-0549 Fax

# Chain of Custody Building Inspection Form

Project Site Name/Building Name: <u>1st National West</u>				Project No.: <u>03167033</u>			
Date: <u>1/29/16</u>			Inspector(s): <u>Stacey Fowler</u>		send results to : <u>scfowler@terracon.com</u>		
HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>
124	FT2-595	12x12 black floor tile over 9x9 black	5843826	30th floor N. hall at stairs	F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD
125	FT1-596	9x9 black floor tile	5843827	31st floor SE corner	F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD
126	PL1-597	wall texture - 17th floor	5843828	17th floor North Cor. room	F	G	NPD
	598		5843829	17th floor North Cor. room	Cat I.	D	PD
	599		5843830	17th floor North Cor. room	Cat II.	SD	PSD
127	M65-600	mastic on wall tile	5843831	30th floor kitchen	F	G	NPD
	601		5843832	30th floor kitchen	Cat I.	D	PD
					Cat II.	SD	PSD
128	FL5-602	for paper behind carpet	5843833	6th floor N. of elevators	F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD
130	PL2-603	plaster ceiling	5843834	31st floor N side lower ceiling	F	G	NPD
	604		5843835	31st floor E side upper ceiling	Cat I.	D	PD
	605		5843836	31st floor attic	Cat II.	SD	PSD
	606		5843837	31st floor at duct through ceiling	F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD
131	CT4-607	2x4 pin hole galaxy CT	5843838	7th floor room 703 front (west)	F	G	NPD
	608		5843839	24th floor kitchen	Cat I.	D	PD
	609		5843840	24th floor kitchen	Cat II.	SD	PSD
132	CT1-610	1x1 speckles & pinholes CT w/ mastic	5843841	18th floor middle	F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD

1. M = Miscellaneous; S = Surfacing; or TSI = Thermal Systems Insulation  
 2. F = Friable; CAT I = Category I Nonfriable (packing, gaskets, resilient floor covering, and roofing products); or CAT II = Category II Nonfriable

3. G = Good (<1%); D = Damaged (<10%); or SD = Significantly Damaged (>10% overall or >25% localized)  
 4. NPD = No Potential for Disturbance; PD = Potential for Disturbance; or PSD = Potential for Significant Disturbance

Turnaround Time: Rush _____ 24 Hr. _____ 72 Hr. <input checked="" type="checkbox"/> Standard(5day)		Positive Stop: Yes _____ No <input checked="" type="checkbox"/>		Relinquished By: <u>Stacey Fowler</u>		Date/Time: <u>1/29/16 5pm</u>	
Comments:				Received By:		Date/Time:	



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(405) 557-0549 Fax

# Chain of Custody, Building Inspection Form

Project Site Name/Building Name: <u>1st National - West</u>					Project No.: <u>03167033</u>		
Date: <u>1/24/16</u>			Inspector(s): <u>Stacey Fowler</u>		send results to : <u>scfowler@terracon.com</u>		
HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>
133	CTI-611	1x1 "lines" CT	5843842	North east	F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD
134	CTI-612	1x1 2 size dots CT	5843843	8th floor SW	F	G	NPD
	613	end mastic	5843844	12th floor SW	Cat I.	D	PD
					Cat II.	SD	PSD
135	CTI-614	1x1 lined rows dots CT	5843845	6th floor NE	F	G	NPD
	615	L mastic	5843846	23rd floor 2nd col. 14	Cat I.	D	PD
					Cat II.	SD	PSD
136	CTI-616	1x1 slotted CT w/ glue	5843847	24th floor SE office	F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD
137	CTI-617	1x1 galaxy CT w/ glue dot	5843848	20th floor Eastcenter room	F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD
138	CTI-618	1x1 w/ slots	5843849	36th floor center at entry to restaurant	F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD
139	AW5-619	metal pan ceiling insulation	5843850	30th floor kitchen	F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD
140	MI4-620	cloth on duct	5843851	8th floor AHU room	F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD
141	MI4-621	TR paper on duct	5843852	31st floor attic	F	G	NPD
	622		5843853	31st floor attic	Cat I.	D	PD
					Cat II.	SD	PSD

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Turnaround Time: Rush ___ 24 Hr. ___ 72 Hr. <input checked="" type="checkbox"/> Standard(5day)		Positive Stop: Yes ___ No <input checked="" type="checkbox"/>		Relinquished By: <u>Stacey Fowler</u>		Date/Time: <u>1/24/16 5pm</u>	
Comments:				Received By:		Date/Time:	



4701 N. Stiles Ave.  
Oklahoma City, Oklahoma 73105  
(405) 525-0453 Office  
(405) 557-0549 Fax

# Chain of Custody Building Inspection Form

Project Site Name/Building Name: <u>1st National - West</u>				Project No.: <u>03162033</u>			
Date: <u>1/29/16</u>		Inspector(s): <u>Stacey Fowler</u>		send results to : <u>scfowler@terracon.com</u>			
HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>
142	MJ3-623	Tank insulation	5843854	3rd floor S. Side	F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD
143	CA1-624	Window caulking	5843855	32nd floor N. Kitchen	F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD
144	PM5-625	Pipe backing on radiator	5843856	8th floor NE room	F	G	NPD
	626		5843857	27th floor W. Cat	Cat I.	D	PD
	627		5843858	27th floor SE office area	Cat II.	SD	PSD
145	CPS-628	Transite radiator backing	5843859	17th floor W. Cat	F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD
146	FBS-629	Fire door	5843860	31st floor men's RR at stairs	F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD
147	CPS-630	Transite Cooling Tower	5843861	13th floor roof NE	F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD
03	HP2-631	Hard plaster	5843862	25th floor	F	G	NPD
	632		5843863	30th floor	Cat I.	D	PD
	633		5843864	31st floor	Cat II.	SD	PSD
	634		5843865	32nd floor	F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD
100	WB2-635	dry wall	5843866	25th floor	F	G	NPD
	636		5843867	26th floor	Cat I.	D	PD
	637		5843868	27 floor	Cat II.	SD	PSD

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Turnaround Time: Rush _____ 24 Hr. _____ 72 Hr. <input checked="" type="checkbox"/> Standard(5day)		Positive Stop: Yes _____ No <input checked="" type="checkbox"/>	Relinquished By: <u>Stacey Fowler</u>	Date/Time: <u>1/29/16 5pm</u>
Comments:			Received By:	Date/Time:



# Chain of Custody, Building Inspection Form

4701 N. Stiles Ave.  
Oklahoma City, Oklahoma 73105  
(405) 525-0453 Office  
(405) 557-0549 Fax

Project Site Name/Building Name: <u>1st National Center</u>				Project No.: <u>03167033</u>			
Date: <u>1/29/16</u>			Inspector(s): <u>Stacey Fowler</u>		send results to : <u>scfowler@terracon.com</u>		
HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>
100	S	dry wall	5843869	24th floor	F	G	NPD
	TSI		5843870	30th floor	Cat I.	D	PD
	M		5843871	31st floor	Cat II.	SD	PSD
	S		5843872	32nd floor	F	G	NPD
101	TSI				Cat I.	D	PD
	M				Cat II.	SD	PSD
	S	Seal compound	5843873	26th floor	F	G	NPD
	TSI		5843874	27th floor	Cat I.	D	PD
	M		5843875	29th floor	Cat II.	SD	PSD
	S		5843876	30th floor	F	G	NPD
	TSI		5843877	32nd floor	Cat I.	D	PD
	M				Cat II.	SD	PSD
	S				F	G	NPD
	TSI				Cat I.	D	PD
	M				Cat II.	SD	PSD
	S				F	G	NPD
	TSI				Cat I.	D	PD
	M				Cat II.	SD	PSD
	S				F	G	NPD
	TSI				Cat I.	D	PD
	M				Cat II.	SD	PSD
	S				F	G	NPD
	TSI				Cat I.	D	PD
	M				Cat II.	SD	PSD

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Turnaround Time: Rush _____ 24 Hr. _____ 72 Hr. <u>X</u> Standard(5day)	Positive Stop: Yes _____ No <u>X</u>	Relinquished By: <u>Stacey Fowler</u>	Date/Time: <u>1/29/16 5pm</u>
Comments:		Received By:	Date/Time:

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## Cover Letter

Feb 16, 2016

Terracon

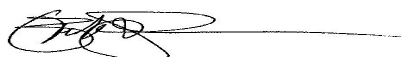
Thank you for choosing iATL for your analytical needs. The Report herein along with the chain of custody contains details of (1) the transmittal of the samples from you to our laboratory, (2) the acceptance and analysis of the samples, (3) the supporting documentation tied to this project, (4) any QA notifications or communications, and (5) our invoice for this project. In addition:

- Please carefully look over these report deliverables and make sure that it meets your needs. Depending upon regulator and accrediting body limitations, you may have some choices for the formatting and data presentation beyond what follows. Please contact our customer service department for information on any options.
- You may intend for all, or select, samples in this submittal to move forward in the laboratory for other testing procedures. The batch sheet in this Report may list that authorization to proceed. Please login to our secure client portal and check this status or to confirm any additional analyses.
- If there are other offices, individuals, or customers who you think should receive this report – please send us that information and we will happily forward the report.

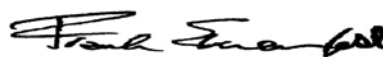
iATL is always seeking to improve our services and the customer experience. Any feedback that you can supply would benefit our commitment to quality. Please consider emailing any of the contacts on the next page of this report.

Finally, I wanted to take this opportunity to express our appreciation in your choice of iATL. We value our customers and seek to earn your business... one sample at a time.

Regards,



**Eric Snyder**  
**President, iATL**



**Frank Ehrenfeld**  
**Laboratory**  
**Director, iATL**

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/16/2016  
**Report No.:** 502830 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033

**Client:** TER845

### Appendix to Analytical Report:

**Customer Contact:**

**Analysis:** US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

**iATL Customer Service:** customerservice@iatl.com

**iATL Office Manager:** cdavis@iatl.com

**iATL Account Representative:** Alyssa Peiffer

**Project Summary:**

**Sample Login Notes:** See Batch Sheet Attached

**Sample Matrix:** Bulk Building Materials

**Exceptions Noted:** See Following Pages

**General Terms, Warrants, Limits, Qualifiers:**

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at [www.iATL.com](http://www.iATL.com) and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

**Information Pertinent to this Report:**

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certification: NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

## CERTIFICATE OF ANALYSIS

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**Project No.:** 03167033

**Client:** TER845

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)  
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

### Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at [customerservice@iatl.com](mailto:customerservice@iatl.com).

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.

### Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gänge, homogeneous exfoliated books of mica, or mixed mineral composites).

IATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in



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**Project:** 1st National-West  
**Project No.:** 03167033

**Client:** TER845

conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) [www.atsdr.cdc.gov](http://www.atsdr.cdc.gov), United States Geological Survey (USGS) [www.minerals.usgs.gov/minerals/](http://www.minerals.usgs.gov/minerals/), US EPA [www.epa.gov/asbestos](http://www.epa.gov/asbestos). The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1)**Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116  
**Requirements/Comments:** Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Floats" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Suspension" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

\*With advance notice and confirmation by the laboratory.

\*\*Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/16/2016  
**Report No.:** 502830 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855212  
**Client No.:** 100-WB2-840

**Description:** White Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
1 Cellulose

**Location:** Basement Rm 35  
Percent Non-Fibrous Material:  
99

Percent Asbestos:  
*None Detected*

**Lab No.:** 5855213  
**Client No.:** 100-WB2-841

**Description:** White/Brown Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
20 Cellulose  
Trace Fibrous Glass

**Location:** 1st Fl Gina's  
Percent Non-Fibrous Material:  
80

Percent Asbestos:  
*None Detected*

**Lab No.:** 5855213(L2)  
**Client No.:** 100-WB2-841

**Description:** White Joint Compound  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 1st Fl Gina's  
Percent Non-Fibrous Material:  
100

Percent Asbestos:  
*None Detected*

**Lab No.:** 5855214  
**Client No.:** 100-WB2-842

**Description:** White/Brown Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
40 Cellulose  
Trace Fibrous Glass

**Location:** 1st Fl Hallmark-West  
Percent Non-Fibrous Material:  
60

Percent Asbestos:  
*None Detected*

**Lab No.:** 5855215  
**Client No.:** 100-WB2-843

**Description:** White/Brown Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
30 Cellulose  
Trace Fibrous Glass

**Location:** 1st Fl Cafe 7  
Percent Non-Fibrous Material:  
70

Percent Asbestos:  
*None Detected*

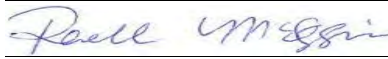
**Lab No.:** 5855216  
**Client No.:** 100-WB2-844


**Description:** White/Brown Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
10 Cellulose

**Location:** 1st Fl Pharmacy  
Percent Non-Fibrous Material:  
90

Percent Asbestos:  
*None Detected*

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 12:00:00 AM  
**Signature:**   
**Analyst:** Rachel McQuiggan

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

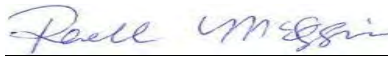
**Report Date:** 2/16/2016  
**Report No.:** 502830 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033

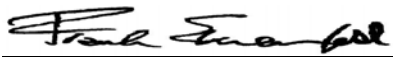
**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855217 <b>Client No.:</b> 100-WB2-845	<b>Description:</b> White/Brown Sheetrock <b>Facility:</b>	<b>Location:</b> 1st Fl Salon
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose 3 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 92
<b>Lab No.:</b> 5855218 <b>Client No.:</b> 100-WB2-846	<b>Description:</b> White Sheetrock <b>Facility:</b>	<b>Location:</b> 1st Fl Tinder
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose	<u>Percent Non-Fibrous Material:</u> 95
<b>Lab No.:</b> 5855219 <b>Client No.:</b> 100-WB2-847	<b>Description:</b> White/Brown Sheetrock <b>Facility:</b>	<b>Location:</b> 1st Fl Dr. Hamburge
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	<u>Percent Non-Fibrous Material:</u> 90
<b>Lab No.:</b> 5855220 <b>Client No.:</b> 100-WB2-848	<b>Description:</b> Orange Sheetrock <b>Facility:</b>	<b>Location:</b> 1st Fl St. Anthonys
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose	<u>Percent Non-Fibrous Material:</u> 98
<b>Lab No.:</b> 5855221 <b>Client No.:</b> 101-WB3-849	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> Basement Room 35
<u>Percent Asbestos:</u> <i>PC 1.1 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 98.9
<b>Lab No.:</b> 5855222 <b>Client No.:</b> 101-WB3-850	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 1st Fl Gina's
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855223 <b>Client No.:</b> 101-WB3-851	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 1st Fl Hallmark
<u>Percent Asbestos:</u> <i>PC 1.2 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 98.8

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 12:00:00 AM  
**Signature:**   
**Analyst:** Rachel McQuiggan

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

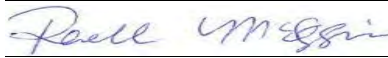
**Report Date:** 2/16/2016  
**Report No.:** 502830 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033


**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855224 <b>Client No.:</b> 101-WB3-852	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 1st Fl Cafe 7
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855225 <b>Client No.:</b> 101-WB3-853	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 1st Fl Pharmacy
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855226 <b>Client No.:</b> 101-WB3-854	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 1st Fl Salon
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855227 <b>Client No.:</b> 101-WB3-855	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 1st Fl Tinder
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855228 <b>Client No.:</b> 101-WB3-856	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 1st Fl St Anthony's
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855229 <b>Client No.:</b> 101-WB3-857	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 1st Fl Dr. Hamburge
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855230 <b>Client No.:</b> 03-HP2-858	<b>Description:</b> White Plaster <b>Facility:</b>	<b>Location:</b> Basement Wall From Boiler
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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**Signature:**   
**Analyst:** Rachel McQuiggan

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/16/2016  
**Report No.:** 502830 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855230(L2)  
**Client No.:** 03-HP2-858

Percent Asbestos:  
*None Detected*

**Description:** Tan Plaster  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
Trace Hair  
5 Cellulose

**Location:** Basement Wall From Boiler  
Percent Non-Fibrous Material:  
95

**Lab No.:** 5855231  
**Client No.:** 03-HP2-859

Percent Asbestos:  
*None Detected*

**Description:** White Plaster  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 1st Fl Behind Tenant Spaces-S  
Percent Non-Fibrous Material:  
100

**Lab No.:** 5855231(L2)  
**Client No.:** 03-HP2-859

Percent Asbestos:  
*None Detected*

**Description:** Brown Plaster  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
Trace Hair

**Location:** 1st Fl Behind Tenant Spaces-S  
Percent Non-Fibrous Material:  
100

**Lab No.:** 5855232  
**Client No.:** 184-PL1-860

Percent Asbestos:  
*None Detected*

**Description:** White Joint Compound  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Hall Behind Cafe 7  
Percent Non-Fibrous Material:  
100

**Lab No.:** 5855233  
**Client No.:** 184-PL1-861

Percent Asbestos:  
*None Detected*

**Description:** White Joint Compound  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Hall Behind Cafe 7  
Percent Non-Fibrous Material:  
100

**Lab No.:** 5855234  
**Client No.:** 184-PL1-862

Percent Asbestos:  
*None Detected*

**Description:** White Joint Compound  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Hall Behind Cafe 7  
Percent Non-Fibrous Material:  
100

**Lab No.:** 5855235  
**Client No.:** 185-PL1-863

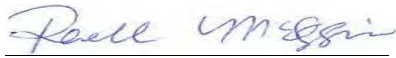
Percent Asbestos:  
*None Detected*

**Description:** Grey Texture  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** SW Room Of Dr. Hamburge  
Percent Non-Fibrous Material:  
100

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 12:00:00 AM

**Signature:**   
**Analyst:** Rachel McQuiggan

**Approved By:**



Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

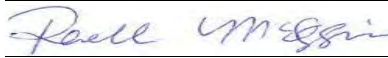
**Report Date:** 2/16/2016  
**Report No.:** 502830 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033


**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855235(L2) <b>Client No.:</b> 185-PL1-863	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> SW Room Of Dr. Hamburge
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855236 <b>Client No.:</b> 185-PL1-864	<b>Description:</b> Grey Texture <b>Facility:</b>	<b>Location:</b> SW Room Of Dr. Hamburge
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855237 <b>Client No.:</b> 185-PL1-865	<b>Description:</b> Grey Texture <b>Facility:</b>	<b>Location:</b> SW Room Of Dr. Hamburge
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855238 <b>Client No.:</b> 186-PL1-866	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> Dr. Hamburge Front
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855239 <b>Client No.:</b> 186-PL1-867	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> Dr. Hamburge Front
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855240 <b>Client No.:</b> 186-PL1-868	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> Dr. Hamburge Closet
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855241 <b>Client No.:</b> 186-PL1-869	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> Dr. Hamburge Room
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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**Signature:**   
**Analyst:** Rachel McQuiggan

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director



## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

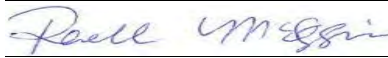
**Report Date:** 2/16/2016  
**Report No.:** 502830 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033


**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855242 <b>Client No.:</b> 186-PL1-870	<b>Description:</b> White Texture <b>Facility:</b>	<b>Location:</b> Dr. Hamburge Room
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855243 <b>Client No.:</b> 187-PL1-871	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 1st Fl Gina's
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855244 <b>Client No.:</b> 187-PL1-872	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 1st Fl Gina's
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855245 <b>Client No.:</b> 187-PL1-873	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 1st Fl Gina's
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855246 <b>Client No.:</b> 187-PL1-874	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 1st Fl Pharmacy
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855247 <b>Client No.:</b> 187-PL1-875	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 1st Fl Pharmacy
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855248 <b>Client No.:</b> 187-PL1-876	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 1st Fl Salon
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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**Date Analyzed:** 2/16/2016 12:00:00 AM  
**Signature:**   
**Analyst:** Rachel McQuiggan

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director



## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

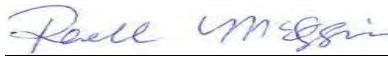
**Report Date:** 2/16/2016  
**Report No.:** 502830 - PLM  
**Project:** 1st National-West  
**Project No.:** 03167033

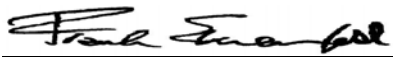
**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855249 <b>Client No.:</b> 187-PL1-877	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 1st Fl Salon
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855250 <b>Client No.:</b> 188-PL1-878	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> St Anthony's Lab
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855251 <b>Client No.:</b> 188-PL1-879	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> St Anthony's X-Ray Room
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855252 <b>Client No.:</b> 188-PL1-880	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> St Anthony's Closet Middle
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855253 <b>Client No.:</b> 188-PL1-881	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> St Anthony's Exam Room 10
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855254 <b>Client No.:</b> 188-PL1-882	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> St Anthony's Closet S
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855255 <b>Client No.:</b> 188-PL1-883	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> St Anthony's Hall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

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**Signature:**   
**Analyst:** Rachel McQuiggan

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

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Oklahoma City OK 73105

**Report Date:** 2/16/2016  
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**Project:** 1st National-West  
**Project No.:** 03167033

**Client:** TER845

## BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855256  
**Client No.:** 188-PL1-884

**Description:** White Joint Compound  
**Facility:**

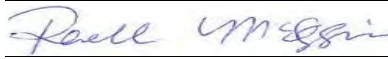
**Location:** St Anthony's Hall


Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

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**Signature:**   
**Analyst:** Rachel McQuiggan

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director



4701 N. Stiles Ave.  
Oklahoma City, Oklahoma 73105  
(405) 525-0453 Office  
(405) 557-0549 Fax

# Chain of Custody Building Inspection Form

RECEIVED

Project Site Name/Building Name: <u>1st National - West</u>				Project No.: <u>03167033</u>				
Date: <u>2/3/16</u>			Inspector(s): <u>Stacey Fowler</u>		send results to : <u>scfowler@terracon.com</u>			
HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>	
100	W32-840	S	5855212	basement Rm 35	F	G	NPD	
	841	TSI	5855213	1st fl. Ginz	Cat I.	D	PD	
	842	M	5855214	1st fl. Hallway-west	Cat II.	SD	PSD	
	843	S	5855215	1st fl. Gate 7	F	G	NPD	
	844	TSI	5855216	1st fl. Pharmacy	Cat I.	D	PD	
	845	M	5855217	1st fl. Salon	Cat II.	SD	PSD	
	846	S	5855218	1st fl. Tinder	F	G	NPD	
	847	TSI	5855219	1st fl. Dr. Hamburge	Cat I.	D	PD	
	848	M	5855220	1st fl. St. Anthony's	Cat II.	SD	PSD	
101	W33-849	S	5855221	basement Room 35	F	G	NPD	
	850	TSI	5855222	1st fl. Ginz	Cat I.	D	PD	
	851	M	5855223	1st fl. Hallway	Cat II.	SD	PSD	
	852	S	5855224	1st fl. Gate 7	F	G	NPD	
	853	TSI	5855225	1st fl. Pharmacy	Cat I.	D	PD	
	854	M	5855226	1st fl. Salon	Cat II.	SD	PSD	
	855	S	5855227	1st fl. Tinder	F	G	NPD	
	856	TSI	5855228	1st fl. St. Anthony's	Cat I.	D	PD	
	857	M	5855229	1st fl. Dr. Hamburge	Cat II.	SD	PSD	
03	HP2-858	S	5855230	basement hallway boiler	F	G	NPD	
	859	TSI	5855231	1st floor behind tenant spaces - S.	Cat I.	D	PD	
		M			Cat II.	SD	PSD	
184	PL1-860	S	5855232	hall behind Gate 7	F	G	NPD	
	861	TSI	5855233	hall behind Gate 7	Cat I.	D	PD	
	862	M	5855234	hall behind Gate 7	Cat II.	SD	PSD	
185	PL1-863	S	5855235	SW room of Dr. Hamburge	F	G	NPD	
	864	TSI	5855236	SW room of Dr. Hamburge	Cat I.	D	PD	
	865	M	5855237	SW room of Dr. Hamburge	Cat II.	SD	PSD	

- M = Miscellaneous; S = Surfacing; or TSI = Thermal Systems Insulation
- F = Friable; CAT I = Category I Nonfriable (packing, gaskets, resilient floor covering, and roofing products); or CAT II = Category II Nonfriable

- G = Good (<1%); D = Damaged (<10%); or SD = Significantly Damaged (>10% overall or >25% localized)
- NPD = No Potential for Disturbance; PD = Potential for Disturbance; or PSD = Potential for Significant Disturbance

Turnaround Time: Rush ___ 24 Hr. <u>X</u> 72 Hr. ___ Standard(5day)	Positive Stop: ___ Yes <u>X</u> No	Relinquished By: <u>Stacey Fowler</u>	Date/Time: <u>2/10/16</u>
Comments: <u>Dem 2 mho</u> <u>Dem 2 mho</u>		Received By: <u>Stacey Fowler</u>	Date/Time: <u>FEB 11 2016</u>

1AT7 - RV



4701 N. Stiles Ave.  
Oklahoma City, Oklahoma 73105  
(405) 525-0453 Office  
(405) 557-0549 Fax

## Chain of Custody Building Inspection Form

Project Site Name/Building Name: 1st National - West Project No.: 03/67033

Date: 2/3/16 Inspector(s): Stacey Fowler send results to : scfowler@terracon.com

HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>
186	PLI - 866	Wall Texture	5855238	Dr. Hambridge First	F	G	NPD
	867		5855239	Dr. Hambridge First	Cat I.	D	PD
	869		5855240	Dr. Hambridge closet	Cat II.	SD	PSD
	869		5855241	Dr. Hambridge room	F	G	NPD
	870		5855242	Dr. Hambridge room	Cat I.	D	PD
					Cat II.	SD	PSD
187	PLI - 871	Wall Texture - large	5855243	1st fl. Gina's	F	G	NPD
	872		5855244	1st fl. Gina's	Cat I.	D	PD
	873		5855245	1st fl. Gina's	Cat II.	SD	PSD
	874		5855246	1st fl. Pharmacy	F	G	NPD
	875		5855247	1st fl. Pharmacy	Cat I.	D	PD
	874		5855248	1st fl. Salon	Cat II.	SD	PSD
	877		5855249	1st fl. Salon	F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD
188	PLI - 878	Wall Texture	5855250	St. Anthony's lab	F	G	NPD
	879		5855251	St. Anthony's 4th floor room	Cat I.	D	PD
	880		5855252	St. Anthony's closet male	Cat II.	SD	PSD
	881		5855253	St. Anthony's exam room 10	F	G	NPD
	882		5855254	St. Anthony's closet 5.	Cat I.	D	PD
	883		5855255	St. Anthony's hall	Cat II.	SD	PSD
	884		5855256	St. Anthony's hall	F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD
					F	G	NPD
					Cat I.	D	PD
					Cat II.	SD	PSD

1. M = Miscellaneous; S = Surfacing; or TSI = Thermal Systems Insulation  
2. F = Friable; CAT I = Category I Nonfriable (packing, gaskets, resilient floor covering, and roofing products); or CAT II = Category II Nonfriable

3. G = Good (<1%); D = Damaged (<10%); or SD = Significantly Damaged (>10% overall or >25% localized)  
4. NPD = No Potential for Disturbance; PD = Potential for Disturbance; or PSD = Potential for Significant Disturbance

Turnaround Time: Rush <input type="checkbox"/> 24 Hr. <input checked="" type="checkbox"/> 72Hr. <input type="checkbox"/> Standard(5day)	Positive Stop: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Relinquished By: <u>Stacey Fowler</u>	Date/Time: <u>2/10/16</u>
Comments:		Received By:	Date/Time:

## Cover Letter

Mar 02, 2016

Terracon

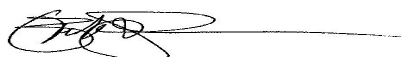
Thank you for choosing iATL for your analytical needs. The Report herein along with the chain of custody contains details of (1) the transmittal of the samples from you to our laboratory, (2) the acceptance and analysis of the samples, (3) the supporting documentation tied to this project, (4) any QA notifications or communications, and (5) our invoice for this project. In addition:

- Please carefully look over these report deliverables and make sure that it meets your needs. Depending upon regulator and accrediting body limitations, you may have some choices for the formatting and data presentation beyond what follows. Please contact our customer service department for information on any options.
- You may intend for all, or select, samples in this submittal to move forward in the laboratory for other testing procedures. The batch sheet in this Report may list that authorization to proceed. Please login to our secure client portal and check this status or to confirm any additional analyses.
- If there are other offices, individuals, or customers who you think should receive this report – please send us that information and we will happily forward the report.

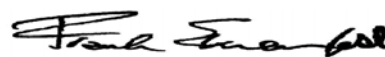
iATL is always seeking to improve our services and the customer experience. Any feedback that you can supply would benefit our commitment to quality. Please consider emailing any of the contacts on the next page of this report.

Finally, I wanted to take this opportunity to express our appreciation in your choice of iATL. We value our customers and seek to earn your business... one sample at a time.

Regards,



**Eric Snyder**  
President, iATL



**Frank Ehrenfeld**  
Laboratory  
Director, iATL

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105  
  
**Client:** TER845

**Report Date:** 3/2/2016  
**Report No.:** 504090 - PLM  
**Project:** First National Center, West Bldg  
**Project No.:** 03167033

### Appendix to Analytical Report:

**Customer Contact:**

**Analysis:** US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

**iATL Customer Service:** customerservice@iatl.com

**iATL Office Manager:** cdavis@iatl.com

**iATL Account Representative:** Alyssa Peiffer

**Project Summary:**

**Sample Login Notes:** See Batch Sheet Attached

**Sample Matrix:** Bulk Building Materials

**Exceptions Noted:** See Following Pages

**General Terms, Warrants, Limits, Qualifiers:**

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at [www.iATL.com](http://www.iATL.com) and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

**Information Pertinent to this Report:**

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certification: NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Client:** TER845

**Report Date:** 3/2/2016  
**Report No.:** 504090 - PLM  
**Project:** First National Center, West Bldg  
**Project No.:** 03167033

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)  
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

### Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at [customerservice@iatl.com](mailto:customerservice@iatl.com).

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.

### Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gänge, homogeneous exfoliated books of mica, or mixed mineral composites).

IATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in



## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Client:** TER845

**Report Date:** 3/2/2016  
**Report No.:** 504090 - PLM  
**Project:** First National Center, West Bldg  
**Project No.:** 03167033

conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) [www.atsdr.cdc.gov](http://www.atsdr.cdc.gov), United States Geological Survey (USGS) [www.minerals.usgs.gov/minerals/](http://www.minerals.usgs.gov/minerals/), US EPA [www.epa.gov/asbestos](http://www.epa.gov/asbestos). The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1)**Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116  
**Requirements/Comments:** Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Floats" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Suspension" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

\*With advance notice and confirmation by the laboratory.

\*\*Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 3/2/2016  
**Report No.:** 504090 - PLM  
**Project:** First National Center, West Bldg  
**Project No.:** 03167033

**Client:** TER845

### PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5868570  
**Client No.:** 117-FCI-650

Percent Asbestos:  
*None Detected*

**Description:** Red Vinyl Sheet Flooring  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
20 Cellulose

**Location:** 5th Floor-N Mechancial Rm  
Percent Non-Fibrous Material:  
80

**Lab No.:** 5868570(L2)  
**Client No.:** 117-FCI-650

Percent Asbestos:  
*None Detected*

**Description:** Brown Mastic  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 5th Floor-N Mechancial Rm  
Percent Non-Fibrous Material:  
100

**Lab No.:** 5868570(L3)  
**Client No.:** 117-FCI-650

Percent Asbestos:  
*None Detected*

**Description:** Grey Paper  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
98 Cellulose  
Trace Synthetic

**Location:** 5th Floor-N Mechancial Rm  
Percent Non-Fibrous Material:  
2

**Lab No.:** 5868571  
**Client No.:** 150-CA1-651

Percent Asbestos:  
*PC 1.9 Chrysotile*

**Description:** Brown Glazing  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 10th Floor Exterior-South Side At Fire Escape  
Percent Non-Fibrous Material:  
98.1

**Lab No.:** 5868572  
**Client No.:** 150-CA1-652

Percent Asbestos:  
*PC 1.4 Chrysotile*

**Description:** Brown Glazing  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 11th Floor Exterior South Side At Fire Escape  
Percent Non-Fibrous Material:  
98.6

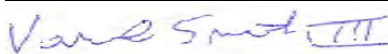
**Lab No.:** 5868573  
**Client No.:** 150-CA1-653


Percent Asbestos:  
*PC Trace Chrysotile*

**Description:** Brown/Grey Caulk  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 14th Floor Exterior SE Roof  
Percent Non-Fibrous Material:  
100

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/26/2016  
**Date Analyzed:** 3/2/2016 11:30:00 AM  
**Signature:**   
**Analyst:** Vane Smith

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

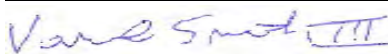
**Report Date:** 3/2/2016  
**Report No.:** 504090 - PLM  
**Project:** First National Center, West Bldg  
**Project No.:** 03167033


**Client:** TER845

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5868574 <b>Client No.:</b> 151-MI4-654 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Dk Brown Insulation <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 98 Mineral Wool	<b>Location:</b> 7th Floor Mechanical Rm At Door Interior Duct Lining <u>Percent Non-Fibrous Material:</u> 2
<b>Lab No.:</b> 5868575 <b>Client No.:</b> 151-MI4-655 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Dk Brown Insulation <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 98 Mineral Wool	<b>Location:</b> 7th Floor Mechanical Rm At Door Interior Duct Lining <u>Percent Non-Fibrous Material:</u> 2
<b>Lab No.:</b> 5868576 <b>Client No.:</b> 152-MI4-656 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Black Mastic <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 4th Floor Attic Above Bank Lobby-North Side <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5868576(L2) <b>Client No.:</b> 152-MI4-656 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Grey Paper <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 98 Cellulose	<b>Location:</b> 4th Floor Attic Above Bank Lobby-North Side <u>Percent Non-Fibrous Material:</u> 2
<b>Lab No.:</b> 5868576(L3) <b>Client No.:</b> 152-MI4-656 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Tan Insulation <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 98 Mineral Wool	<b>Location:</b> 4th Floor Attic Above Bank Lobby-North Side <u>Percent Non-Fibrous Material:</u> 2

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/26/2016  
**Date Analyzed:** 3/2/2016 11:30:00 AM  
**Signature:**   
**Analyst:** Vane Smith

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director



# Chain of Custody

9000 Commerce Parkway  
Suite B  
Mt. Laurel, NJ 08054  
Toll Free: 877 428-4285  
[info@iatl.com](mailto:info@iatl.com)  
[www.iatl.com](http://www.iatl.com)

Client: Terracon Consultants  
4701 N. Stiles Ave  
Oklahoma City OK 73105

Project Name: First National Center - West Bldg  
Project No.: 03167033

Office Phone: 405-525-0453  
Cell Phone: 785-760-1658  
FAX / Email 1: scfowler@terracon.com

Contact 1: Stacy Fowler  
Contact 2: Tim Easley  
FAX / Email 2: tim.easley@terracon.com

Special

Instructions:

## Matrix:

☐ Air ☐ Soil ☒ Bulk ☐ Other  
☐ Water ☐ Paint ☐ Surface Dust / Wipe

## Analysis Method:

☐ PCM : NIOSH 7400  
☐ PCM : OSHA  
☐ PCM : TWA

☐ AAS : Lead in Air  
☐ AAS : Lead in Water  
☐ AAS : Lead in Paint  
☐ AAS : Lead Dust/Wipe<sup>1</sup>  
☐ AAS : Lead in Soil  
☐ AAS : TCLP  
☐ AAS : Metals ( Cd, Zn, Cr )

See Page 2 for Bulk Asbestos Specific Log

☒ PLM : Bulk Asbestos EPA 600  
☐ PLM : Point Counting 198.1  
☐ PLM : NOB via 198.1 (PLM only)  
☐ If <1% by PLM, to TEM via 198.4<sup>2</sup>  
☐ PLM : See page 2 for instructions

See Page 4 for Mold Specific Log

☐ IAQ: I Bioaersol Fungal Spore Trap<sup>3</sup>  
☐ IAQ: II Bioaersol Fungal Spore Trap<sup>4</sup>  
☐ IAQ: Tape, Bulk, Misc. Qualitative<sup>3</sup>  
☐ IAQ: Tape, Bulk, Misc. Quantitative<sup>3</sup>  
☐ IAQ: Other Culturable ID<sup>2</sup>

☐ TEM : AHERA  
☐ TEM : NIOSH 7402  
☐ TEM : Dust / Wipe  
☐ TEM : Dust / Microvac  
☐ TEM : NOB 198.4  
☐ TEM : Bulk Analysis  
☐ TEM : Potable Water  
☐ TEM : Non-Potable Water  
☐ TEM : Other  
☐ Total Dust : NIOSH 0500  
☐ Total Dust : NIOSH 0600

1- Requires ASTM acceptable material

2- Call to confirm TAP

3- Non-culturable

4- With Non-fungal Microscopic Exam

Turnaround  
Time:

Preliminary Results Requested By...

**RECEIVED**  
Feb 3-2  
date / time

☐ Verbals ☐ FAX ☒ Email

☐ 10 Day ☐ 5 Day ☒ 3 Day ☐ 2 Day ☐ 1 Day\* ☐ 12 Hour\*\* ☐ 6 Hour\*\* ☐ RUSH\*\*

\* End of next business day unless otherwise specified.

\*\* Matrix Dependent. Please notify the lab before shipping.

## Sample Numbers:

Client #(s): \_\_\_\_\_  
(start) (end)

IATL#(s): \_\_\_\_\_  
(start) (end) Total: 7

Please use your sample log to supply sampling information (ex. Volumes, areas, descriptions, locations, etc.) or download forms at [iatl.com](http://iatl.com)

## Chain of Custody:

Relinquished (Name / Organization): OTC  
Received (Name / IATL): \_\_\_\_\_  
Sample Login (Name / IATL): 22-2/29/16  
Sample Prep (Name / IATL): \_\_\_\_\_  
Analysis (Name(s) / IATL): WES 3/2/16  
QA/QC Review (Name / IATL): WES 3-2-16  
Archived / Released: \_\_\_\_\_ QA/QC InterLAB Use: \_\_\_\_\_

Date: 2-25-16 Time: 5:00pm  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Date: FEB 28 Time: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Date: ATL Time: \_\_\_\_\_

Project #: 03167033  
Store #: First National Center - west Building  
Inspector: Tim Easley

[illegible]

## Cover Letter

Feb 08, 2016

Terracon

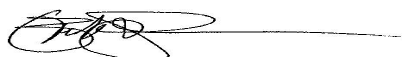
Thank you for choosing iATL for your analytical needs. The Report herein along with the chain of custody contains details of (1) the transmittal of the samples from you to our laboratory, (2) the acceptance and analysis of the samples, (3) the supporting documentation tied to this project, (4) any QA notifications or communications, and (5) our invoice for this project. In addition:

- Please carefully look over these report deliverables and make sure that it meets your needs. Depending upon regulator and accrediting body limitations, you may have some choices for the formatting and data presentation beyond what follows. Please contact our customer service department for information on any options.
- You may intend for all, or select, samples in this submittal to move forward in the laboratory for other testing procedures. The batch sheet in this Report may list that authorization to proceed. Please login to our secure client portal and check this status or to confirm any additional analyses.
- If there are other offices, individuals, or customers who you think should receive this report – please send us that information and we will happily forward the report.

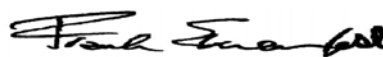
iATL is always seeking to improve our services and the customer experience. Any feedback that you can supply would benefit our commitment to quality. Please consider emailing any of the contacts on the next page of this report.

Finally, I wanted to take this opportunity to express our appreciation in your choice of iATL. We value our customers and seek to earn your business... one sample at a time.

Regards,



**Eric Snyder**  
President, iATL



**Frank Ehrenfeld**  
Laboratory  
Director, iATL

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105  
  
**Client:** TER845

**Report Date:** 2/8/2016  
**Report No.:** 501972 - PLM  
**Project:** 1st National-Center Building  
**Project No.:** 03167033

### Appendix to Analytical Report:

**Customer Contact:**

**Analysis:** US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

**iATL Customer Service:** customerservice@iatl.com

**iATL Office Manager:** cdavis@iatl.com

**iATL Account Representative:** Alyssa Peiffer

**Project Summary:**

**Sample Login Notes:** See Batch Sheet Attached

**Sample Matrix:** Bulk Building Materials

**Exceptions Noted:** See Following Pages

**General Terms, Warrants, Limits, Qualifiers:**

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at [www.iATL.com](http://www.iATL.com) and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

**Information Pertinent to this Report:**

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certification: NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.



## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/8/2016  
**Report No.:** 501972 - PLM  
**Project:** 1st National-Center Building  
**Project No.:** 03167033

**Client:** TER845

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)  
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

### Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at [customerservice@iatl.com](mailto:customerservice@iatl.com).

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.

### Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gänge, homogeneous exfoliated books of mica, or mixed mineral composites).

IATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
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**Client:** TER845

**Report Date:** 2/8/2016  
**Report No.:** 501972 - PLM  
**Project:** 1st National-Center Building  
**Project No.:** 03167033

conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) [www.atsdr.cdc.gov](http://www.atsdr.cdc.gov), United States Geological Survey (USGS) [www.minerals.usgs.gov/minerals/](http://www.minerals.usgs.gov/minerals/), US EPA [www.epa.gov/asbestos](http://www.epa.gov/asbestos). The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1)**Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116  
**Requirements/Comments:** Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Floats" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Suspension" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

\*With advance notice and confirmation by the laboratory.

\*\*Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

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**Project:** 1st National-Center Building  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5843725  
**Client No.:** 142-PL2-647

**Description:** White Plaster  
**Facility:**

**Location:** 13th Floor

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 5843726  
**Client No.:** 143-SC2-648

**Description:** Black Tar  
**Facility:**

**Location:** 8th Floor AHU Room

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 5843727  
**Client No.:** 144-SC2-649

**Description:** Black Tar  
**Facility:**

**Location:** 8th Floor Fire/Elect Closet

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
20 Cellulose

Percent Non-Fibrous Material:  
80

**Lab No.:** 5843727(L2)  
**Client No.:** 144-SC2-649

**Description:** Black Tar Paper  
**Facility:**

**Location:** 8th Floor Fire/Elect Closet

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
75 Cellulose

Percent Non-Fibrous Material:  
25

**Lab No.:** 5843728  
**Client No.:** 144-SC2-650

**Description:** Black Tar  
**Facility:**

**Location:** 8th Floor Fire/Elect Closet

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 5843728(L2)  
**Client No.:** 144-SC2-650

**Description:** Black Tar Paper  
**Facility:**

**Location:** 8th Floor Fire/Elect Closet

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
75 Cellulose

Percent Non-Fibrous Material:  
25

**Lab No.:** 5843729  
**Client No.:** 145-MI4-651

**Description:** White/Tan Wrap  
**Facility:**

**Location:** 14th Fl Mech Pump Room

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
60 Cellulose

Percent Non-Fibrous Material:  
40

Please refer to the Appendix of this report for further information regarding your analysis.

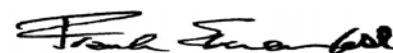
**Date Received:** 2/1/2016

**Date Analyzed:** 2/5/2016 8:23:25 PM

**Signature:**

**Analyst:** Vane Smith

**Approved By:**



Frank E. Ehrenfeld, III

Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/8/2016  
**Report No.:** 501972 - PLM  
**Project:** 1st National-Center Building  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5843729(L2)  
**Client No.:** 145-MI4-651

Percent Asbestos:  
*None Detected*

**Description:** Grey/Black Insulation  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
40 Cellulose  
20 Mineral Wool

**Location:** 14th Fl Mech Pump Room

Percent Non-Fibrous Material:  
40

**Lab No.:** 5843730  
**Client No.:** 145-MI4-652


Percent Asbestos:  
**30 Chrysotile**


**Description:** White/Black Insulation  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
30 Cellulose  
5 Mineral Wool

**Location:** 15th Fl AHU

Percent Non-Fibrous Material:  
35

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/1/2016  
**Date Analyzed:** 2/5/2016 8:23:25 PM  
**Signature:**   
**Analyst:** Vane Smith

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## Chain of Custody Building Inspection Form

Project Site Name/Building Name: 1st National - Center Building Project No.: 0316 7033  
Date: 1/29/16 Inspector(s): Stacey Fowler send results to : scfowler@terracon.com

HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>
142	PL2-647	S	plaster ceiling	5843725	13th floor	F	NPD
		TSI			Cat I.	D	PD
		M			Cat II.	SD	PSD
143	SC2-648	S	pl- tar on fitting flg pipe	5843726	8th floor AHU room	F	NPD
		TSI			Cat I.	D	PD
		M			Cat II.	SD	PSD
144	SC2-649	S	tar on flg pipe	5843727	8th floor fire elect. closet	F	NPD
	650	TSI	DW	5843728	8th floor fire elect. closet	Cat I.	PD
		M			Cat II.	SD	PSD
145	MI4-651	S	duct insulation	5843729	14th fl. mech. pump room	F	NPD
	652	TSI		5843730	15th fl. AHU	Cat I.	PD
		M			Cat II.	SD	PSD
		S				F	NPD
		TSI			Cat I.	D	PD
		M			Cat II.	SD	PSD
		S				F	NPD
		TSI			Cat I.	D	PD
		M			Cat II.	SD	PSD
		S				F	NPD
		TSI			Cat I.	D	PD
		M			Cat II.	SD	PSD
		S				F	NPD
		TSI			Cat I.	D	PD
		M			Cat II.	SD	PSD

RECEIVED  
FEB - 1 2016  
IATL - BY

1. M = Miscellaneous; S = Surfacing; or TSI = Thermal Systems Insulation  
2. F = Friable; CAT I = Category I Nonfriable (packing, gaskets, resilient floor covering, and roofing products); or CAT II = Category II Nonfriable

3. G = Good (<1%); D = Damaged (<10%); or SD = Significantly Damaged (>10% overall or >25% localized)  
4. NPD = No Potential for Disturbance; PD = Potential for Disturbance; or PSD = Potential for Significant Disturbance

Turnaround Time: Rush \_\_\_ 24 Hr. \_\_\_ 72Hr. X Standard(5day) Positive Stop: \_\_\_ Yes \_\_\_ No Relinquished By: Stacey Fowler Date/Time: 1/29/16 5:00pm  
Comments: Delivered 2-8-16 Received By: me Date/Time: 2/2/16 WSS 2/5/16

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## Cover Letter

Feb 16, 2016

Terracon

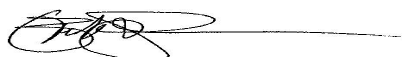
Thank you for choosing iATL for your analytical needs. The Report herein along with the chain of custody contains details of (1) the transmittal of the samples from you to our laboratory, (2) the acceptance and analysis of the samples, (3) the supporting documentation tied to this project, (4) any QA notifications or communications, and (5) our invoice for this project. In addition:

- Please carefully look over these report deliverables and make sure that it meets your needs. Depending upon regulator and accrediting body limitations, you may have some choices for the formatting and data presentation beyond what follows. Please contact our customer service department for information on any options.
- You may intend for all, or select, samples in this submittal to move forward in the laboratory for other testing procedures. The batch sheet in this Report may list that authorization to proceed. Please login to our secure client portal and check this status or to confirm any additional analyses.
- If there are other offices, individuals, or customers who you think should receive this report – please send us that information and we will happily forward the report.

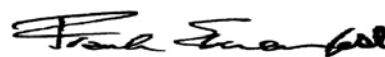
iATL is always seeking to improve our services and the customer experience. Any feedback that you can supply would benefit our commitment to quality. Please consider emailing any of the contacts on the next page of this report.

Finally, I wanted to take this opportunity to express our appreciation in your choice of iATL. We value our customers and seek to earn your business... one sample at a time.

Regards,



**Eric Snyder**  
**President, iATL**



**Frank Ehrenfeld**  
**Laboratory**  
**Director, iATL**

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/16/2016  
**Report No.:** 502831 - PLM  
**Project:** 1st National Center Bldg-Center Bldg  
**Project No.:** 03167033

**Client:** TER845

### Appendix to Analytical Report:

**Customer Contact:**

**Analysis:** US EPA 600, R93-116

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iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

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Certification: NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA-LAP, LLC No. 100188

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**Project No.:** 03167033

conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) [www.atsdr.cdc.gov](http://www.atsdr.cdc.gov), United States Geological Survey (USGS) [www.minerals.usgs.gov/minerals/](http://www.minerals.usgs.gov/minerals/), US EPA [www.epa.gov/asbestos](http://www.epa.gov/asbestos). The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1)**Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116  
**Requirements/Comments:** Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
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- 5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
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LOQ, Limit of Quantitation estimates for mass and volume analyses.

\*With advance notice and confirmation by the laboratory.

\*\*Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

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**Project:** 1st National Center Bldg-Center Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855257  
**Client No.:** 146-HP2-653

Percent Asbestos:  
*None Detected*

**Description:** Brown Plaster  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
5 Cellulose  
Trace Hair

**Location:** Basement-Bank Teller Rm  
Percent Non-Fibrous Material:  
95

**Lab No.:** 5855257(L2)  
**Client No.:** 146-HP2-653

Percent Asbestos:  
*None Detected*

**Description:** White Plaster  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Basement-Bank Teller Rm  
Percent Non-Fibrous Material:  
100

**Lab No.:** 5855258  
**Client No.:** 146-HP2-654

Percent Asbestos:  
*None Detected*

**Description:** Off-White Plaster  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 2nd Flr Stairs  
Percent Non-Fibrous Material:  
100

**Lab No.:** 5855258(L2)  
**Client No.:** 146-HP2-654

Percent Asbestos:  
*None Detected*

**Description:** White Plaster  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 2nd Flr Stairs  
Percent Non-Fibrous Material:  
100

**Lab No.:** 5855259  
**Client No.:** 146-HP2-655

Percent Asbestos:  
*None Detected*

**Description:** Off-White Plaster  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 3rd Flr North  
Percent Non-Fibrous Material:  
100

**Lab No.:** 5855259(L2)  
**Client No.:** 146-HP2-655

Percent Asbestos:  
*None Detected*

**Description:** White Plaster  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 3rd Flr North  
Percent Non-Fibrous Material:  
100

**Lab No.:** 5855260  
**Client No.:** 146-HP2-656

Percent Asbestos:  
*None Detected*

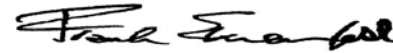
**Description:** Off-White Plaster  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
Trace Hair

**Location:** 4th Flr S. Middle Column  
Percent Non-Fibrous Material:  
100

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 8:25:00 AM

**Signature:**   
**Analyst:** Rebecca Reed

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/16/2016  
**Report No.:** 502831 - PLM  
**Project:** 1st National Center Bldg-Center Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855260(L2)  
**Client No.:** 146-HP2-656

Percent Asbestos:  
*None Detected*

**Description:** White Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 4th Flr S. Middle Column

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855260(L3)  
**Client No.:** 146-HP2-656

Percent Asbestos:  
*None Detected*

**Description:** Dk Brown Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 4th Flr S. Middle Column

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855261  
**Client No.:** 146-HP2-657

Percent Asbestos:  
*None Detected*

**Description:** Lt Brown Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
1 Cellulose  
Trace Hair

**Location:** 5th Flr West

Percent Non-Fibrous Material:  
99

**Lab No.:** 5855261(L2)  
**Client No.:** 146-HP2-657

Percent Asbestos:  
*None Detected*

**Description:** White Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 5th Flr West

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855262  
**Client No.:** 146-HP2-658

Percent Asbestos:  
*None Detected*

**Description:** Off-White Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
1 Cellulose

**Location:** 6th Flr Rm 151

Percent Non-Fibrous Material:  
99

**Lab No.:** 5855262(L2)  
**Client No.:** 146-HP2-658

Percent Asbestos:  
*None Detected*

**Description:** White Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
5 Cellulose

**Location:** 6th Flr Rm 151

Percent Non-Fibrous Material:  
95

**Lab No.:** 5855263  
**Client No.:** 146-HP2-659

Percent Asbestos:  
*None Detected*

**Description:** Lt Brown Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

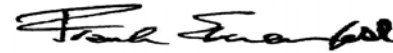
**Location:** 7th Flr SW Office

Percent Non-Fibrous Material:  
100

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**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 8:25:00 AM

**Signature:**   
**Analyst:** Rebecca Reed

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/16/2016  
**Report No.:** 502831 - PLM  
**Project:** 1st National Center Bldg-Center Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855263(L2) <b>Client No.:</b> 146-HP2-659	<b>Description:</b> Lt Grey Plaster <b>Facility:</b>	<b>Location:</b> 7th Flr SW Office
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 5855264 <b>Client No.:</b> 146-HP2-660	<b>Description:</b> Off-White Plaster <b>Facility:</b>	<b>Location:</b> 8th Flr
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 5855264(L2) <b>Client No.:</b> 146-HP2-660	<b>Description:</b> White Plaster <b>Facility:</b>	<b>Location:</b> 8th Flr
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


<b>Lab No.:</b> 5855264(L3) <b>Client No.:</b> 146-HP2-660	<b>Description:</b> Off-White Joint Compound <b>Facility:</b>	<b>Location:</b> 8th Flr
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

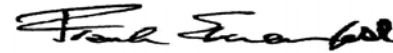
<b>Lab No.:</b> 5855265 <b>Client No.:</b> 146-HP2-661	<b>Description:</b> Lt Brown Plaster <b>Facility:</b>	<b>Location:</b> 9th Flr South Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Cellulose Trace Hair	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 5855265(L2) <b>Client No.:</b> 146-HP2-661	<b>Description:</b> White Plaster <b>Facility:</b>	<b>Location:</b> 9th Flr South Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 5855266 <b>Client No.:</b> 146-HP2-662	<b>Description:</b> Off-White Plaster <b>Facility:</b>	<b>Location:</b> 10th Flr Elevator Hall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Cellulose	<u>Percent Non-Fibrous Material:</u> 100

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**Date Received:** 2/11/2016  
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**Signature:**   
**Analyst:** Rebecca Reed

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/16/2016  
**Report No.:** 502831 - PLM  
**Project:** 1st National Center Bldg-Center Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855266(L2)  
**Client No.:** 146-HP2-662

Percent Asbestos:  
*None Detected*

**Description:** White Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 10th Flr Elevator Hall

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855267  
**Client No.:** 146-HP2-663

Percent Asbestos:  
*None Detected*

**Description:** Lt Tan Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 11th Flr West Hall N. Column

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855267(L2)  
**Client No.:** 146-HP2-663

Percent Asbestos:  
*PC 1.3 Chrysotile*

**Description:** Off-White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 11th Flr West Hall N. Column

Percent Non-Fibrous Material:  
98.7

**Lab No.:** 5855268  
**Client No.:** 146-HP2-664

Percent Asbestos:  
*None Detected*

**Description:** Lt Brown Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
Trace Cellulose

**Location:** 12th Flr Rm 1270

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855268(L2)  
**Client No.:** 146-HP2-664

Percent Asbestos:  
*None Detected*

**Description:** White Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 12th Flr Rm 1270

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855269  
**Client No.:** 146-HP2-665

Percent Asbestos:  
*None Detected*

**Description:** Off-White Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
Trace Cellulose

**Location:** 13th Flr SE Rm

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855269(L2)  
**Client No.:** 146-HP2-665

Percent Asbestos:  
*None Detected*


**Description:** White Plaster  
**Facility:**

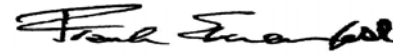
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 13th Flr SE Rm

Percent Non-Fibrous Material:  
100

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**Signature:**   
**Analyst:** Rebecca Reed

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director



## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/16/2016  
**Report No.:** 502831 - PLM  
**Project:** 1st National Center Bldg-Center Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855269(L3)  
**Client No.:** 146-HP2-665

Percent Asbestos:  
*None Detected*

**Description:** Off-White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 13th Flr SE Rm

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855270  
**Client No.:** 147-WB2-666

Percent Asbestos:  
*None Detected*

**Description:** Off-White Sheetrock  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
30 Cellulose  
5 Fibrous Glass

**Location:** Basement Near Exit To Garage

Percent Non-Fibrous Material:  
65

**Lab No.:** 5855270(L2)  
**Client No.:** 147-WB2-666

Percent Asbestos:  
*None Detected*

**Description:** Off-White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Basement Near Exit To Garage

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855270(L3)  
**Client No.:** 147-WB2-666

Percent Asbestos:  
*None Detected*

**Description:** Composite  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
25 Cellulose  
3 Fibrous Glass

**Location:** Basement Near Exit To Garage

Percent Non-Fibrous Material:  
72

**Lab No.:** 5855271  
**Client No.:** 147-WB2-667

Percent Asbestos:  
*None Detected*

**Description:** Off-White Sheetrock  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
40 Cellulose  
5 Fibrous Glass

**Location:** 1st Flr Tag Agency

Percent Non-Fibrous Material:  
55

**Lab No.:** 5855272  
**Client No.:** 147-WB2-668

Percent Asbestos:  
*None Detected*

**Description:** Off-White Sheetrock  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
10 Cellulose  
5 Fibrous Glass

**Location:** 1st Flr Hallmark

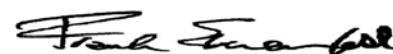
Percent Non-Fibrous Material:  
85

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**Signature:**   
**Analyst:** Rebecca Reed

**Approved By:**



Frank E. Ehrenfeld, III  
Laboratory Director



## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/16/2016  
**Report No.:** 502831 - PLM  
**Project:** 1st National Center Bldg-Center Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855273  
**Client No.:** 147-WB2-669

Percent Asbestos:  
*None Detected*

**Description:** Off-White Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
10 Cellulose  
5 Fibrous Glass

**Location:** 2nd Flr Middle Column

Percent Non-Fibrous Material:  
85

**Lab No.:** 5855273(L2)  
**Client No.:** 147-WB2-669

Percent Asbestos:  
*None Detected*

**Description:** White Joint Compound  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 2nd Flr Middle Column

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855273(L3)  
**Client No.:** 147-WB2-669

Percent Asbestos:  
*None Detected*

**Description:** Composite  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
10 Cellulose  
5 Fibrous Glass

**Location:** 2nd Flr Middle Column

Percent Non-Fibrous Material:  
85

**Lab No.:** 5855274  
**Client No.:** 147-WB2-670

Percent Asbestos:  
*None Detected*

**Description:** Brown Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
50 Cellulose  
5 Fibrous Glass

**Location:** 3rd Flr SE Office

Percent Non-Fibrous Material:  
45

**Lab No.:** 5855274(L2)  
**Client No.:** 147-WB2-670

Percent Asbestos:  
*None Detected*

**Description:** Off-White Joint Compound  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 3rd Flr SE Office

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855274(L3)  
**Client No.:** 147-WB2-670

Percent Asbestos:  
*None Detected*

**Description:** Composite  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
40 Cellulose  
3 Fibrous Glass

**Location:** 3rd Flr SE Office

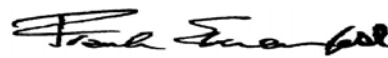
Percent Non-Fibrous Material:  
57

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**Signature:**   
**Analyst:** Rebecca Reed

**Approved By:**

  
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/16/2016  
**Report No.:** 502831 - PLM  
**Project:** 1st National Center Bldg-Center Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855275  
**Client No.:** 147-WB2-671

Percent Asbestos:  
*None Detected*

**Description:** Off-White Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
60 Cellulose  
5 Fibrous Glass

**Location:** 4th Flr Computer Control Rm  
Percent Non-Fibrous Material:  
35

**Lab No.:** 5855275(L2)  
**Client No.:** 147-WB2-671

Percent Asbestos:  
*None Detected*

**Description:** Off-White Joint Compound  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 4th Flr Computer Control Rm  
Percent Non-Fibrous Material:  
100

**Lab No.:** 5855275(L3)  
**Client No.:** 147-WB2-671

Percent Asbestos:  
*None Detected*

**Description:** Composite  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
60 Cellulose  
5 Fibrous Glass

**Location:** 4th Flr Computer Control Rm  
Percent Non-Fibrous Material:  
35

**Lab No.:** 5855276  
**Client No.:** 147-WB2-672

Percent Asbestos:  
*None Detected*

**Description:** Off-White Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
5 Fibrous Glass  
Trace Cellulose

**Location:** 5th Flr  
Percent Non-Fibrous Material:  
95

**Lab No.:** 5855277  
**Client No.:** 147-WB2-673

Percent Asbestos:  
*None Detected*

**Description:** Off-White Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
5 Fibrous Glass  
Trace Cellulose

**Location:** 6th Flr Near N. Entry From Elevators  
Percent Non-Fibrous Material:  
95

**Lab No.:** 5855278  
**Client No.:** 147-WB2-674

Percent Asbestos:  
*None Detected*

**Description:** Off-White Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
10 Cellulose  
5 Fibrous Glass


**Location:** 7th Flr South Middle Rm  
Percent Non-Fibrous Material:  
85

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**Signature:**   
**Analyst:** Rebecca Reed

**Approved By:**

  
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/16/2016  
**Report No.:** 502831 - PLM  
**Project:** 1st National Center Bldg-Center Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855278(L2)  
**Client No.:** 147-WB2-674

Percent Asbestos:  
*None Detected*

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 7th Flr South Middle Rm

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855278(L3)  
**Client No.:** 147-WB2-674

Percent Asbestos:  
*None Detected*

**Description:** Composite  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
10 Cellulose  
5 Fibrous Glass

**Location:** 7th Flr South Middle Rm

Percent Non-Fibrous Material:  
85

**Lab No.:** 5855279  
**Client No.:** 147-WB2-675

Percent Asbestos:  
*None Detected*

**Description:** Off-White Sheetrock  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
20 Cellulose

**Location:** 8th Flr East Middle

Percent Non-Fibrous Material:  
80

**Lab No.:** 5855280  
**Client No.:** 147-WB2-676

Percent Asbestos:  
*None Detected*

**Description:** Off-White Sheetrock  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
5 Cellulose  
5 Fibrous Glass

**Location:** 9th Flr Kitchen

Percent Non-Fibrous Material:  
90

**Lab No.:** 5855280(L2)  
**Client No.:** 147-WB2-676

Percent Asbestos:  
*None Detected*

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 9th Flr Kitchen

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855280(L3)  
**Client No.:** 147-WB2-676

Percent Asbestos:  
*None Detected*

**Description:** Composite  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
5 Cellulose  
5 Fibrous Glass

**Location:** 9th Flr Kitchen

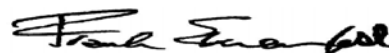
Percent Non-Fibrous Material:  
90

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**Analyst:** Rebecca Reed

**Approved By:**



Frank E. Ehrenfeld, III  
Laboratory Director


## CERTIFICATE OF ANALYSIS


<b>Client:</b> Terracon 4701 N.Stiles Ave. Oklahoma City OK 73105	<b>Report Date:</b> 2/16/2016 <b>Report No.:</b> 502831 - PLM <b>Project:</b> 1st National Center Bldg-Center Bldg <b>Project No.:</b> 03167033
<b>Client:</b> TER845	

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855281 <b>Client No.:</b> 147-WB2-677 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Off-White Sheetrock <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 15 Cellulose	<b>Location:</b> 10th Flr NE <u>Percent Non-Fibrous Material:</u> 85
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Please refer to the Appendix of this report for further information regarding your analysis.

<b>Date Received:</b>	2/11/2016
<b>Date Analyzed:</b>	2/16/2016 8:25:00 AM
<b>Signature:</b>	
<b>Analyst:</b>	Rebecca Reed

<b>Approved By:</b>	
	Frank E. Ehrenfeld, III Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/16/2016  
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**Project:** 1st National Center Bldg-Center Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855282  
**Client No.:** 147-WB2-678

**Description:** Brown/White Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
15 Cellulose  
Trace Mineral Wool

**Location:** 11th Flr E. Hall 2nd To Last Rm South

Percent Asbestos:  
*None Detected*

Percent Non-Fibrous Material:  
85

**Lab No.:** 5855283  
**Client No.:** 147-WB2-679

**Description:** Brown/White Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
60 Cellulose

**Location:** 12th Flr 1270

Percent Asbestos:  
*None Detected*

Percent Non-Fibrous Material:  
40

**Lab No.:** 5855284  
**Client No.:** 147-WB2-680

**Description:** Brown/White Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
5 Cellulose  
Trace Mineral Wool

**Location:** 13th Flr 1379

Percent Asbestos:  
*None Detected*

Percent Non-Fibrous Material:  
95

**Lab No.:** 5855285  
**Client No.:** 148-WB3-681

**Description:** White Joint Compound  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Basement Near Exit To Garage

Percent Asbestos:  
*None Detected*

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855286  
**Client No.:** 148-WB3-682

**Description:** White Joint Compound  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 1st Flr Tag Agency

Percent Asbestos:  
*None Detected*

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855287  
**Client No.:** 148-WB3-683


**Description:** Grey Joint Compound  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected


**Location:** 1st Flr Hallmark

Percent Asbestos:  
*PC 1.8 Chrysotile*

Percent Non-Fibrous Material:  
98.2

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 12:00:00 AM  
**Signature:**   
**Analyst:** Vane Smith

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/16/2016  
**Report No.:** 502831 - PLM  
**Project:** 1st National Center Bldg-Center Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855288  
**Client No.:** 148-WB3-684

**Description:** White Joint Compound  
**Facility:**

**Location:** 2nd Flr W. Office

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855289  
**Client No.:** 148-WB3-685

**Description:** White Joint Compound  
**Facility:**

**Location:** 3rd Flr Exterior Of NW Office

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855290  
**Client No.:** 148-WB3-686

**Description:** White Joint Compound  
**Facility:**

**Location:** 4th Flr Computer Control Rm

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855291  
**Client No.:** 148-WB3-687

**Description:** White Joint Compound  
**Facility:**

**Location:** 5th Flr

Percent Asbestos:  
*PC 1.7 Chrysotile*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
98.3

**Lab No.:** 5855292  
**Client No.:** 148-WB3-688

**Description:** White Joint Compound  
**Facility:**

**Location:** 7th Flr South Middle Rm

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855293  
**Client No.:** 148-WB3-689

**Description:** White Joint Compound  
**Facility:**

**Location:** 8th Flr West Exit

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855294  
**Client No.:** 148-WB3-690

**Description:** White Joint Compound  
**Facility:**

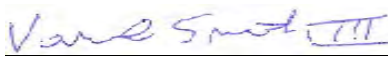
**Location:** 9th Flr N. Entry

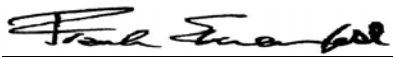
Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 12:00:00 AM  
**Signature:**   
**Analyst:** Vane Smith

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director



## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

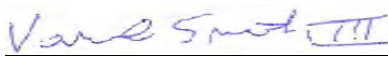
**Report Date:** 2/16/2016  
**Report No.:** 502831 - PLM  
**Project:** 1st National Center Bldg-Center Bldg  
**Project No.:** 03167033

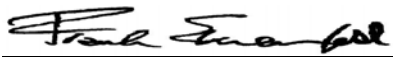
**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855295 <b>Client No.:</b> 148-WB3-691 <u>Percent Asbestos:</u> <b>PC 2.1 Chrysotile</b>	<b>Description:</b> Tan Joint Compound <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 10th Flr Rm N. Of Elevators <u>Percent Non-Fibrous Material:</u> 97.9
<b>Lab No.:</b> 5855296 <b>Client No.:</b> 148-WB3-692 <u>Percent Asbestos:</u> <b>None Detected</b>	<b>Description:</b> Grey Joint Compound <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 11th Flr E. Break Area <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855297 <b>Client No.:</b> 148-WB3-693 <u>Percent Asbestos:</u> <b>PC 3.2 Chrysotile</b>	<b>Description:</b> Off-White Joint Compound <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 12th Flr 1270 <u>Percent Non-Fibrous Material:</u> 96.8
<b>Lab No.:</b> 5855298 <b>Client No.:</b> 148-WB3-694 <u>Percent Asbestos:</u> <b>PC 2.2 Chrysotile</b>	<b>Description:</b> Grey Joint Compound <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 13th Flr 1386 <u>Percent Non-Fibrous Material:</u> 97.8
<b>Lab No.:</b> 5855299 <b>Client No.:</b> 149-PL1-695 <u>Percent Asbestos:</u> <b>None Detected</b>	<b>Description:</b> White Texture/Plaster <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 4th Flr <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855300 <b>Client No.:</b> 149-PL1-696 <u>Percent Asbestos:</u> <b>None Detected</b>	<b>Description:</b> White Texture/Plaster <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 7th Flr S. Middle Hall <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855301 <b>Client No.:</b> 149-PL1-697 <u>Percent Asbestos:</u> <b>None Detected</b>	<b>Description:</b> White Texture/Plaster <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 7th Flr S. Middle Rm <u>Percent Non-Fibrous Material:</u> 100

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**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 12:00:00 AM  
**Signature:**   
**Analyst:** Vane Smith

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director



## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105


**Report Date:** 2/16/2016  
**Report No.:** 502831 - PLM  
**Project:** 1st National Center Bldg-Center Bldg  
**Project No.:** 03167033


**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855302 <b>Client No.:</b> 149-PL1-698	<b>Description:</b> White Texture/Plaster <b>Facility:</b>	<b>Location:</b> 8th Flr Hall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855303 <b>Client No.:</b> 149-PL1-699	<b>Description:</b> White Texture/Plaster <b>Facility:</b>	<b>Location:</b> 8th Flr N. Office
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855304 <b>Client No.:</b> 149-PL1-700	<b>Description:</b> White Texture/Plaster <b>Facility:</b>	<b>Location:</b> 8th Flr Hall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855305 <b>Client No.:</b> 149-PL1-701	<b>Description:</b> White Texture/Plaster <b>Facility:</b>	<b>Location:</b> 9th Flr Hall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855306 <b>Client No.:</b> 149-PL1-702	<b>Description:</b> White Texture/Plaster <b>Facility:</b>	<b>Location:</b> 9th Flr Hall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855307 <b>Client No.:</b> 149-PL1-703	<b>Description:</b> Grey Texture/Plaster <b>Facility:</b>	<b>Location:</b> 9th Flr Hall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855308 <b>Client No.:</b> 150-PL1-704	<b>Description:</b> White Texture/Plaster <b>Facility:</b>	<b>Location:</b> 6th Flr N. Hall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 12:00:00 AM  
**Signature:**   
**Analyst:** Vane Smith

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

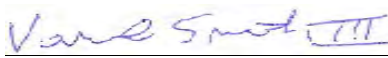
**Report Date:** 2/16/2016  
**Report No.:** 502831 - PLM  
**Project:** 1st National Center Bldg-Center Bldg  
**Project No.:** 03167033

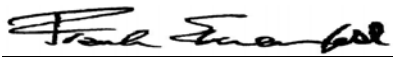
**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855309 <b>Client No.:</b> 150-PL1-705	<b>Description:</b> White Texture/Plaster <b>Facility:</b>	<b>Location:</b> 6th Flr Rm 165
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855310 <b>Client No.:</b> 150-PL1-706	<b>Description:</b> White Texture/Plaster <b>Facility:</b>	<b>Location:</b> 6th Flr W. Hall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855311 <b>Client No.:</b> 150-PL1-707	<b>Description:</b> White Texture/Plaster <b>Facility:</b>	<b>Location:</b> 6th Flr Break Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855312 <b>Client No.:</b> 150-PL1-708	<b>Description:</b> White Texture/Plaster <b>Facility:</b>	<b>Location:</b> 6th Flr Rm 149
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855313 <b>Client No.:</b> 150-PL1-709	<b>Description:</b> White Texture/Plaster <b>Facility:</b>	<b>Location:</b> 6th Flr S. Hall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855314 <b>Client No.:</b> 150-PL1-710	<b>Description:</b> White Texture/Plaster <b>Facility:</b>	<b>Location:</b> 6th Flr E. Hall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855315 <b>Client No.:</b> 151-PL1-711	<b>Description:</b> White Texture/Plaster <b>Facility:</b>	<b>Location:</b> 9th Flr W. Entry
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 12:00:00 AM  
**Signature:**   
**Analyst:** Vane Smith

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105


**Report Date:** 2/16/2016  
**Report No.:** 502831 - PLM  
**Project:** 1st National Center Bldg-Center Bldg  
**Project No.:** 03167033


**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855316 <b>Client No.:</b> 151-PL1-712	<b>Description:</b> White Texture/Plaster <b>Facility:</b>	<b>Location:</b> 9th Flr SE Office
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855317 <b>Client No.:</b> 151-PL1-713	<b>Description:</b> Brown/White Sheetrock <b>Facility:</b>	<b>Location:</b> 9th Flr N In E. Hall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 60 Cellulose	<u>Percent Non-Fibrous Material:</u> 40
<b>Lab No.:</b> 5855317(L2) <b>Client No.:</b> 151-PL1-713	<b>Description:</b> White Texture/Plaster <b>Facility:</b>	<b>Location:</b> 9th Flr N In E. Hall
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855318 <b>Client No.:</b> 151-PL1-714	<b>Description:</b> White Texture/Plaster <b>Facility:</b>	<b>Location:</b> 9th Flr S. Middle
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855319 <b>Client No.:</b> 151-PL1-715	<b>Description:</b> White Texture/Plaster <b>Facility:</b>	<b>Location:</b> 9th Flr NE Office
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855320 <b>Client No.:</b> 151-PL1-716	<b>Description:</b> White Texture/Plaster <b>Facility:</b>	<b>Location:</b> 9th Flr N. Entry
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855321 <b>Client No.:</b> 151-PL1-717	<b>Description:</b> White Texture/Plaster <b>Facility:</b>	<b>Location:</b> 9th Flr NW Office
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 12:00:00 AM  
**Signature:**   
**Analyst:** Vane Smith

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105


**Report Date:** 2/16/2016  
**Report No.:** 502831 - PLM  
**Project:** 1st National Center Bldg-Center Bldg  
**Project No.:** 03167033


**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855322 <b>Client No.:</b> 156-PL1-718 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> White Texture/Plaster <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 2nd Flr <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855323 <b>Client No.:</b> 156-PL1-719 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> White Texture/Plaster <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 2nd Flr <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855324 <b>Client No.:</b> 156-PL1-720 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> White Texture/Plaster <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 2nd Flr <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855325 <b>Client No.:</b> 157-PL1-721 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> White Texture/Plaster <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 1st Flr Tag Agency <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855326 <b>Client No.:</b> 157-PL1-722 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> White Texture/Plaster <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 1st Flr Tag Agency <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855327 <b>Client No.:</b> 158-CA1-723 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Grey Glazing <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 3rd Flr N. Window <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855328 <b>Client No.:</b> 158-CA1-724 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Grey Glazing <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> 5th Flr N. Window <u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 8:25:00 AM  
**Signature:**   
**Analyst:** Rebecca Reed

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/16/2016  
**Report No.:** 502831 - PLM  
**Project:** 1st National Center Bldg-Center Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855329  
**Client No.:** 158-CA1-725

Percent Asbestos:  
**PC 3.1 Chrysotile**

**Description:** Tan Glazing  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 14th Flr NE Rm

Percent Non-Fibrous Material:  
96.9

**Lab No.:** 5855330  
**Client No.:** 72-FP1-726

Percent Asbestos:  
**None Detected**

**Description:** Tan Insulation  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
20 Cellulose

**Location:** 5th Flr Ent. Overspray

Percent Non-Fibrous Material:  
80

**Lab No.:** 5855331  
**Client No.:** 146-HP2-727

Percent Asbestos:  
**None Detected**

**Description:** White Plaster  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:**

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855332  
**Client No.:** 147-WB2-728

Percent Asbestos:  
**None Detected**

**Description:** White Sheetrock  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
Trace Mineral Wool

**Location:**

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855333  
**Client No.:** 148-WB3-729

Percent Asbestos:  
**None Detected**

**Description:** Grey Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:**

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855334  
**Client No.:** 148-WB3-730

Percent Asbestos:  
**PC 2.6 Chrysotile**

**Description:** Tan Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected


**Location:**

Percent Non-Fibrous Material:  
97.4

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**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 8:25:00 AM

**Signature:**   
**Analyst:** Rebecca Reed

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## Chain of Custody Building Inspection Form

Project Site Name/Building Name: 1<sup>st</sup> National Center Bldg. - Center Bldg. Project No.: 03167033  
Date: 2/3/16 Inspector(s): Stacey Fowler send results to : scfowler@terracon.com

HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>
146	HP2-653	Hard Plaster	5855257	Basement - Bank Teller room	F	G	NPD
	654		5855258	2nd fl. Stairs	Cat I.	D	PD
	655		5855259	3rd fl. North	Cat II.	SD	PSD
	656		5855260	4th fl. S. middle column	F	G	NPD
	657		5855261	5th fl. West	Cat I.	D	PD
	658		5855262	6th Rm 151	Cat II.	SD	PSD
	659		5855263	7th SW office	F	G	NPD
	660		5855264	8th floor	Cat I.	D	PD
	661		5855265	9th South room	Cat II.	SD	PSD
	662		5855266	10th elevator hall	F	G	NPD
147	WB2-666	Drywall	5855270	Basement Near exit to Garage	F	G	NPD
	667		5855271	1st floor Tag Agency	Cat I.	D	PD
	668		5855272	1st floor - Hallway	Cat II.	SD	PSD
	669		5855273	2nd floor middle column	F	G	NPD
	670		5855274	3rd floor SE office	Cat I.	D	PD
	671		5855275	4th floor Computer control Rm	Cat II.	SD	PSD
	672		5855276	5th floor	F	G	NPD
	673		5855277	6th floor Near North front	Cat I.	D	PD
	674		5855278	7th floor South middle room	Cat II.	SD	PSD
	675		5855279	8th floor East middle	F	G	NPD
	676		5855280	Open floor Kitchen	Cat I.	D	PD
	677		5855281	10th floor NE	Cat II.	SD	PSD

1. M = Miscellaneous; S = Surfacing; or TSI = Thermal Systems Insulation  
2. F = Friable; CAT I = Category I Nonfriable (packing, gaskets, resilient floor covering, and roofing products); or CAT II = Category II Nonfriable

3. G = Good (<1%); D = Damaged (<10%); or SD = Significantly Damaged (>10% overall or >25% localized)  
4. NPD = No Potential for Disturbance; PD = Potential for Disturbance; or PSD = Potential for Significant Disturbance

Turnaround Time: Rush 24 Hr. X 72 Hr. Standard(5day) Positive Stop: Yes X No  
Relinquished By: Stacey Fowler Date: 2/10/16  
Received By: [Signature] Date: 2/10/16  
Comments: Reloc 2-16-16 Mr 2/15/16 (78) 1377 RE 2/16/16





4701 N. Stiles Ave.  
Oklahoma City, Oklahoma 73105  
(405) 525-0453 Office  
(405) 557-0549 Fax

# Chain of Custody, Building Inspection Form

Project Site Name/Building Name: <u>1st National - Center Bldg.</u>					Project No.: <u>03167033</u>			
Date: <u>2/10/16</u>			Inspector(s): <u>Stacey Fowler</u>		send results to : <u>scfowler@terracon.com</u>			
HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>	
147	W32-678	S	5855282	11th floor E. hall 2nd to last room south	F	G	NPD	
	679	TSI	5855283	12th floor 1270	Cat I.	D	PD	
	680	M	5855284	13th floor 1379	Cat II.	SD	PSD	
148	W33-681	S	5855285	Basement near exit to garage	F	G	NPD	
	682	TSI	5855286	15th floor Tag Agency	Cat I.	D	PD	
	683	M	5855287	1st floor Hall north	Cat II.	SD	PSD	
	684	S	5855288	2nd fl. W. office	F	G	NPD	
	685	TSI	5855289	3rd fl. exterior of N. office	Cat I.	D	PD	
	686	M	5855290	4th fl. computer-control room	Cat II.	SD	PSD	
	687	S	5855291	5th floor	F	G	NPD	
	688	TSI	5855292	7th floor South middle rm	Cat I.	D	PD	
	689	M	5855293	8th fl. west exit	Cat II.	SD	PSD	
	690	S	5855294	9th fl. N. entry	F	G	NPD	
	691	TSI	5855295	10th fl. room N. elevators	Cat I.	D	PD	
	692	M	5855296	11th fl. E. break area	Cat II.	SD	PSD	
	693	S	5855297	12th fl. 1270	F	G	NPD	
	694	TSI	5855298	13th fl. 1380	Cat I.	D	PD	
		M			Cat II.	SD	PSD	
149	PL1-695	S	5855299	4th fl.	F	G	NPD	
	696	TSI	5855300	7th fl. S. middle hall	Cat I.	D	PD	
	697	M	5855301	7th fl. S. middle rm	Cat II.	SD	PSD	
	698	S	5855302	8th fl. hall	F	G	NPD	
	699	TSI	5855303	8th fl. N. office	Cat I.	D	PD	
	700	M	5855304	8th fl. hall	Cat II.	SD	PSD	
	701	S	5855305	9th fl. hall	F	G	NPD	
	702	TSI	5855306	9th fl. hall	Cat I.	D	PD	
	703	M	5855307	9th fl. hall	Cat II.	SD	PSD	

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3. G = Good (<1%); D = Damaged (<10%); or SD = Significantly Damaged (>10% overall or >25% localized)  
4. NPD = No Potential for Disturbance; PD = Potential for Disturbance; or PSD = Potential for Significant Disturbance

Turnaround Time: Rush 24 Hr. <u>X</u> 72 Hr. <u>X</u> Standard(5day)	Positive Stop: Yes <u>X</u> No	Relinquished By: <u>Stacey Fowler</u>	Date/Time: <u>2/10/16</u>
Comments:		Received By:	Date/Time:





4701 N. Stiles Ave.  
Oklahoma City, Oklahoma 73105  
(405) 525-0453 Office  
(405) 557-0549 Fax

# Chain of Custody Building Inspection Form

Project Site Name/Building Name: <u>1<sup>st</sup> National - Center Bldg</u>	Project No.: <u>03167033</u>
Date: <u>2/3/16</u>	Inspector(s): <u>Stacey Fowler</u> send results to : <u>scfowler@terracon.com</u>

HA No./ Sample No.			Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>
150	PLI - 704	S	TSI	wall texture - Chf.	5855308	Chf. N. hall	F	G	NPD
	705	5855309			Chf. Rm 105	Cat I.	D	PD	
	706	5855310			Chf. W. hall	Cat II.	SD	PSD	
	707	S	TSI		5855311	Chf. Break room	F	G	NPD
	708	5855312			Chf. Rm 149	Cat I.	D	PD	
	709	5855313			Chf. S. hall	Cat II.	SD	PSD	
	710	S	TSI		5855314	Chf. E. hall	F	G	NPD
					Cat I.	D	PD		
					Cat II.	SD	PSD		
151	PLI - 711	S	TSI	wall texture - Chf. Drip texture	5855315	Chf. W. entry	F	G	NPD
	712	5855316			Chf. SE office	Cat I.	D	PD	
	713	5855317			Chf. N on E hall	Cat II.	SD	PSD	
	714	S	TSI		5855318	Chf. S. hallway	F	G	NPD
	715	5855319			Chf. NE office	Cat I.	D	PD	
	716	5855320			Chf. N. lobby	Cat II.	SD	PSD	
	717	S	TSI		5855321	Chf. NW office	F	G	NPD
					Cat I.	D	PD		
					Cat II.	SD	PSD		
156	PLI - 718	S	TSI	wall texture - 2nd floor	5855322	2nd floor	F	G	NPD
	719	5855323			2nd floor	Cat I.	D	PD	
	720	5855324			2nd floor	Cat II.	SD	PSD	
157	PLI - 721	S	TSI	wall texture - 1st floor (some asked the children Spice)	5855325	1st floor Tag agency	F	G	NPD
	722	5855326			1st floor Tag agency	Cat I.	D	PD	
					Cat II.	SD	PSD		
158	CAI - 723	S	TSI	window conk	5855327	3rd floor N. window	F	G	NPD
	724	5855328			5th floor N. window	Cat I.	D	PD	
	725				14th floor NE room	Cat II.	SD	PSD	

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3. G = Good (<1%); D = Damaged (<10%); or SD = Significantly Damaged (>10% overall or >25% localized)  
4. NPD = No Potential for Disturbance; PD = Potential for Disturbance; or PSD = Potential for Significant Disturbance

Turnaround Time: Rush 24 Hr. <u>72 Hr.</u> <u>Standard (5day)</u>	Positive Stop: Yes <u>No</u>	Relinquished By: <u>Stacey Fowler</u>	Date/Time: <u>2/10/16</u>
Comments:		Received By:	Date/Time:



4701 N. Stiles Ave.  
Oklahoma City, Oklahoma 73105  
(405) 525-0453 Office  
(405) 557-0549 Fax

# Chain of Custody, Building Inspection Form

Project Site Name/Building Name: 1<sup>st</sup> National - Center Bldg. Project No.: 03167033

Date: 2/3/16 Inspector(s): Stacey Fowler send results to : scfowler@terracon.com

HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>
72	S	Fire proofing	5855330	5th floor Elmt. on spray	F	G	NPD
	TSI				Cat I.	D	PD
	M				Cat II.	SD	PSD
146	S	hard plaster	5855331		F	G	NPD
	TSI				Cat I.	D	PD
	M				Cat II.	SD	PSD
147	S	dry wall	5855332		F	G	NPD
	TSI				Cat I.	D	PD
	M				Cat II.	SD	PSD
148	S	Joint compound	5855333		F	G	NPD
	TSI		5855334		Cat I.	D	PD
	M				Cat II.	SD	PSD
	S				F	G	NPD
	TSI				Cat I.	D	PD
	M				Cat II.	SD	PSD
	S				F	G	NPD
	TSI				Cat I.	D	PD
	M				Cat II.	SD	PSD
	S				F	G	NPD
	TSI				Cat I.	D	PD
	M				Cat II.	SD	PSD
	S				F	G	NPD
	TSI				Cat I.	D	PD
	M				Cat II.	SD	PSD

1. M= Miscellaneous; S = Surfacing; or TSI = Thermal Systems Insulation  
2. F = Friable; CAT I = Category I Nonfriable (packing, gaskets, resilient floor covering, and roofing products); or CAT II = Category II Nonfriable

3. G = Good (<1%); D = Damaged (<10%); or SD = Significantly Damaged (>10% overall or >25% localized)  
4. NPD = No Potential for Disturbance; PD = Potential for Disturbance; or PSD = Potential for Significant Disturbance

Turnaround Time: Rush _____ 24 Hr. <u>X</u> 72 Hr. <u>X</u> Standard(5day)	Positive Stop: Yes _____ No <u>X</u>	Relinquished By: <u>Stacey Fowler</u>	Date/Time: <u>2/10/16</u>
Comments:		Received By:	Date/Time:

## Cover Letter

Feb 17, 2016

Terracon

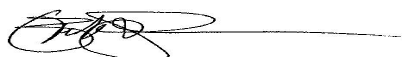
Thank you for choosing iATL for your analytical needs. The Report herein along with the chain of custody contains details of (1) the transmittal of the samples from you to our laboratory, (2) the acceptance and analysis of the samples, (3) the supporting documentation tied to this project, (4) any QA notifications or communications, and (5) our invoice for this project. In addition:

- Please carefully look over these report deliverables and make sure that it meets your needs. Depending upon regulator and accrediting body limitations, you may have some choices for the formatting and data presentation beyond what follows. Please contact our customer service department for information on any options.
- You may intend for all, or select, samples in this submittal to move forward in the laboratory for other testing procedures. The batch sheet in this Report may list that authorization to proceed. Please login to our secure client portal and check this status or to confirm any additional analyses.
- If there are other offices, individuals, or customers who you think should receive this report – please send us that information and we will happily forward the report.

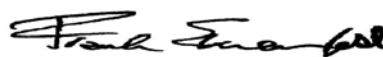
iATL is always seeking to improve our services and the customer experience. Any feedback that you can supply would benefit our commitment to quality. Please consider emailing any of the contacts on the next page of this report.

Finally, I wanted to take this opportunity to express our appreciation in your choice of iATL. We value our customers and seek to earn your business... one sample at a time.

Regards,



**Eric Snyder**  
**President, iATL**



**Frank Ehrenfeld**  
**Laboratory**  
**Director, iATL**

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/17/2016  
**Report No.:** 502832 - PLM  
**Project:** 1st National-E. Bldg  
**Project No.:** 03167033

**Client:** TER845

### Appendix to Analytical Report:

**Customer Contact:**

**Analysis:** US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

**iATL Customer Service:** customerservice@iatl.com

**iATL Office Manager:** cdavis@iatl.com

**iATL Account Representative:** Alyssa Peiffer

**Project Summary:**

**Sample Login Notes:** See Batch Sheet Attached

**Sample Matrix:** Bulk Building Materials

**Exceptions Noted:** See Following Pages

**General Terms, Warrants, Limits, Qualifiers:**

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at [www.iATL.com](http://www.iATL.com) and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

**Information Pertinent to this Report:**

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certification: NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
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**Project:** 1st National-E. Bldg  
**Project No.:** 03167033

**Client:** TER845

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)  
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

### Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at [customerservice@iatl.com](mailto:customerservice@iatl.com).

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.

### Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gänge, homogeneous exfoliated books of mica, or mixed mineral composites).

IATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/17/2016  
**Report No.:** 502832 - PLM  
**Project:** 1st National-E. Bldg  
**Project No.:** 03167033

**Client:** TER845

conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) [www.atsdr.cdc.gov](http://www.atsdr.cdc.gov), United States Geological Survey (USGS) [www.minerals.usgs.gov/minerals/](http://www.minerals.usgs.gov/minerals/), US EPA [www.epa.gov/asbestos](http://www.epa.gov/asbestos). The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1)**Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116  
**Requirements/Comments:** Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Floats" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.
- 5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Suspension" only.  
**Pricing/Turnaround Time:** Please contact your client representative for options available.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

\*With advance notice and confirmation by the laboratory.

\*\*Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/17/2016  
**Report No.:** 502832 - PLM  
**Project:** 1st National-E. Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855395  
**Client No.:** 159-WB2-731

Percent Asbestos:  
*None Detected*

**Description:** Lt Tan Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
10 Cellulose

**Location:** Basement Far East Tenant Space  
Percent Non-Fibrous Material:  
90

**Lab No.:** 5855396  
**Client No.:** 159-WB2-732

Percent Asbestos:  
*None Detected*

**Description:** Lt Tan Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
20 Cellulose

**Location:** 2nd Flr Center  
Percent Non-Fibrous Material:  
80

**Lab No.:** 5855396(L2)  
**Client No.:** 159-WB2-732

Percent Asbestos:  
*PC 0.25 Chrysotile*

**Description:** White Joint Compound  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 2nd Flr Center  
Percent Non-Fibrous Material:  
99.75

**Lab No.:** 5855396(L3)  
**Client No.:** 159-WB2-732

Percent Asbestos:  
*PC Trace Chrysotile*

**Description:** Composite  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
20 Cellulose

**Location:** 2nd Flr Center  
Percent Non-Fibrous Material:  
80

**Lab No.:** 5855397  
**Client No.:** 159-WB2-733

Percent Asbestos:  
*None Detected*

**Description:** Lt Tan Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
10 Cellulose

**Location:** 3rd Flr Center  
Percent Non-Fibrous Material:  
90


**Lab No.:** 5855397(L2)  
**Client No.:** 159-WB2-733

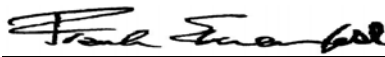
Percent Asbestos:  
*PC 1.2 Chrysotile*

**Description:** White Joint Compound  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 3rd Flr Center  
Percent Non-Fibrous Material:  
98.8

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 1:14:00 PM  
**Signature:**   
**Analyst:** Ellen Smith

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director



## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/17/2016  
**Report No.:** 502832 - PLM  
**Project:** 1st National-E. Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855397(L3)  
**Client No.:** 159-WB2-733

Percent Asbestos:  
**PC Trace Chrysotile**

**Description:** Composite  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
10 Cellulose

**Location:** 3rd Flr Center  
Percent Non-Fibrous Material:  
90

**Lab No.:** 5855398  
**Client No.:** 159-WB2-734

Percent Asbestos:  
**None Detected**

**Description:** Lt Tan Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
10 Cellulose

**Location:** 4th Flr Center  
Percent Non-Fibrous Material:  
90

**Lab No.:** 5855398(L2)  
**Client No.:** 159-WB2-734

Percent Asbestos:  
**PC 1.3 Chrysotile**

**Description:** White Joint Compound  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 4th Flr Center  
Percent Non-Fibrous Material:  
98.7

**Lab No.:** 5855398(L3)  
**Client No.:** 159-WB2-734

Percent Asbestos:  
**PC Trace Chrysotile**

**Description:** Composite  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
10 Cellulose

**Location:** 4th Flr Center  
Percent Non-Fibrous Material:  
90

**Lab No.:** 5855399  
**Client No.:** 159-WB2-735

Percent Asbestos:  
**None Detected**

**Description:** Lt Tan Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
10 Cellulose

**Location:** 6th Flr Center  
Percent Non-Fibrous Material:  
90


**Lab No.:** 5855399(L2)  
**Client No.:** 159-WB2-735


Percent Asbestos:  
**PC Trace Chrysotile**

**Description:** White Joint Compound  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 6th Flr Center  
Percent Non-Fibrous Material:  
100

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 1:14:00 PM  
**Signature:**   
**Analyst:** Ellen Smith

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/17/2016  
**Report No.:** 502832 - PLM  
**Project:** 1st National-E. Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855399(L3)  
**Client No.:** 159-WB2-735

Percent Asbestos:  
*PC Trace Chrysotile*

**Description:** Composite  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
10 Cellulose

**Location:** 6th Flr Center  
Percent Non-Fibrous Material:  
90

**Lab No.:** 5855400  
**Client No.:** 159-WB2-736

Percent Asbestos:  
*None Detected*

**Description:** Lt Tan Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
20 Cellulose

**Location:** 7th Flr Center  
Percent Non-Fibrous Material:  
80

**Lab No.:** 5855401  
**Client No.:** 159-WB2-737

Percent Asbestos:  
*None Detected*

**Description:** Lt Tan Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
15 Cellulose

**Location:** 8th Flr Center  
Percent Non-Fibrous Material:  
85

**Lab No.:** 5855402  
**Client No.:** 159-WB2-738

Percent Asbestos:  
*None Detected*

**Description:** Lt Tan Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
20 Cellulose

**Location:** 13th Flr Electric Closet  
Percent Non-Fibrous Material:  
80

**Lab No.:** 5855403  
**Client No.:** 159-WB2-739

Percent Asbestos:  
*None Detected*

**Description:** Lt Tan Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
15 Cellulose

**Location:** 14th Flr Electric Closet  
Percent Non-Fibrous Material:  
85


**Lab No.:** 5855404  
**Client No.:** 159-WB2-740

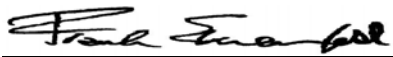
Percent Asbestos:  
*None Detected*

**Description:** Lt Tan Sheetrock  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
10 Cellulose

**Location:** 15th Flr Elevator Rm  
Percent Non-Fibrous Material:  
90

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4701 N.Stiles Ave.  
Oklahoma City OK 73105

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**Project:** 1st National-E. Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855405  
**Client No.:** 160-WB3-741

Percent Asbestos:  
**PC 2.1 Chrysotile**

**Description:** Off-White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Basement Far East Tenant Space

Percent Non-Fibrous Material:  
97.9

**Lab No.:** 5855406  
**Client No.:** 160-WB3-742

Percent Asbestos:  
**PC 1.7 Chrysotile**

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 2nd Flr Center

Percent Non-Fibrous Material:  
98.3

**Lab No.:** 5855407  
**Client No.:** 160-WB3-743

Percent Asbestos:  
**PC 1.3 Chrysotile**

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 3rd Flr Center

Percent Non-Fibrous Material:  
98.7

**Lab No.:** 5855408  
**Client No.:** 160-WB3-744

Percent Asbestos:  
**PC 1.5 Chrysotile**

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 4th Flr Center

Percent Non-Fibrous Material:  
98.5

**Lab No.:** 5855409  
**Client No.:** 160-WB3-745

Percent Asbestos:  
**PC 1.2 Chrysotile**

**Description:** Off-White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 5th Flr Next To Stairs In Hall

Percent Non-Fibrous Material:  
98.8

**Lab No.:** 5855410  
**Client No.:** 160-WB3-746

Percent Asbestos:  
**PC 1.7 Chrysotile**


**Description:** White Joint Compound  
**Facility:**


Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 6th Flr Center

Percent Non-Fibrous Material:  
98.3

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**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855411  
**Client No.:** 160-WB3-747

Percent Asbestos:  
**PC 1.2 Chrysotile**

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 7th Flr Center

Percent Non-Fibrous Material:  
98.8

**Lab No.:** 5855412  
**Client No.:** 160-WB3-748

Percent Asbestos:  
**PC 1.5 Chrysotile**

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 8th Flr Center

Percent Non-Fibrous Material:  
98.5

**Lab No.:** 5855413  
**Client No.:** 160-WB3-749

Percent Asbestos:  
**PC 1.4 Chrysotile**

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 13th Flr Electric Closet

Percent Non-Fibrous Material:  
98.6

**Lab No.:** 5855414  
**Client No.:** 160-WB3-750

Percent Asbestos:  
**PC 1.2 Chrysotile**

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 14th Flr Electric Rm

Percent Non-Fibrous Material:  
98.8

**Lab No.:** 5855415  
**Client No.:** 160-WB3-751

Percent Asbestos:  
**PC 1.3 Chrysotile**

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 15th Elevator Rm

Percent Non-Fibrous Material:  
98.7

**Lab No.:** 5855416  
**Client No.:** 88-WB3-752

Percent Asbestos:  
**None Detected**


**Description:** White/Pink Joint Compound  
**Facility:**


Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 11th Flr Near Circular Stairs

Percent Non-Fibrous Material:  
100

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**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855417	<b>Description:</b> White Joint Compound	<b>Location:</b> 12th Flr Near Circular Stairs
<b>Client No.:</b> 88-WB3-753	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 5855418	<b>Description:</b> White Joint Compound	<b>Location:</b> 11th Flr NW
<b>Client No.:</b> 161-WB3-754	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1.3 Chrysotile</i>	None Detected	98.7


<b>Lab No.:</b> 5855419	<b>Description:</b> White Joint Compound	<b>Location:</b> 11th Flr East
<b>Client No.:</b> 161-WB3-755	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1.3 Chrysotile</i>	None Detected	98.7


<b>Lab No.:</b> 5855420	<b>Description:</b> White Joint Compound	<b>Location:</b> 11th Flr Center
<b>Client No.:</b> 161-WB3-756	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1.2 Chrysotile</i>	None Detected	98.8

<b>Lab No.:</b> 5855421	<b>Description:</b> White Joint Compound	<b>Location:</b> 9th Flr East
<b>Client No.:</b> 162-WB3-757	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1.4 Chrysotile</i>	None Detected	98.6

<b>Lab No.:</b> 5855422	<b>Description:</b> White Joint Compound	<b>Location:</b> 9th Flr NE Side
<b>Client No.:</b> 162-WB3-758	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>PC 1.2 Chrysotile</i>	None Detected	98.8

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**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855423  
**Client No.:** 162-WB3-759

Percent Asbestos:  
*PC 1.5 Chrysotile*

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 9th Flr S Middle

Percent Non-Fibrous Material:  
98.5

**Lab No.:** 5855424  
**Client No.:** 163-WB2-760

Percent Asbestos:  
*None Detected*

**Description:** Lt Tan Sheetrock  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
10 Cellulose  
1 Fibrous Glass

**Location:** 1st Flr L7's

Percent Non-Fibrous Material:  
89

**Lab No.:** 5855425  
**Client No.:** 163-WB2-761

Percent Asbestos:  
*None Detected*

**Description:** Lt Tan Sheetrock  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
2 Cellulose  
1 Fibrous Glass

**Location:** 1st Flr Far East Suite

Percent Non-Fibrous Material:  
97

**Lab No.:** 5855426  
**Client No.:** 163-WB2-762

Percent Asbestos:  
*None Detected*

**Description:** Lt Tan Sheetrock  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
10 Cellulose  
1 Fibrous Glass

**Location:** 1st Flr Feed The Children

Percent Non-Fibrous Material:  
89

**Lab No.:** 5855427  
**Client No.:** 163-WB2-763

Percent Asbestos:  
*None Detected*

**Description:** Lt Tan Sheetrock  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
15 Cellulose  
1 Fibrous Glass

**Location:** 2nd Flr North

Percent Non-Fibrous Material:  
84

**Lab No.:** 5855428  
**Client No.:** 163-WB2-764

Percent Asbestos:  
*None Detected*


**Description:** Lt Tan Sheetrock  
**Facility:**

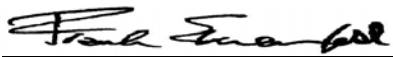
Percent Non-Asbestos Fibrous Material:  
10 Cellulose  
1 Fibrous Glass

**Location:** 3rd Flr

Percent Non-Fibrous Material:  
89

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Laboratory Director



## CERTIFICATE OF ANALYSIS

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4701 N.Stiles Ave.  
Oklahoma City OK 73105

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**Project:** 1st National-E. Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855428(L2)  
**Client No.:** 163-WB2-764

Percent Asbestos:  
*None Detected*

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** 3rd Flr

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855428(L3)  
**Client No.:** 163-WB2-764

Percent Asbestos:  
*None Detected*

**Description:** Composite  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
10 Cellulose  
1 Fibrous Glass

**Location:** 3rd Flr

Percent Non-Fibrous Material:  
89

**Lab No.:** 5855429  
**Client No.:** 163-WB2-765

Percent Asbestos:  
*None Detected*

**Description:** Lt Tan Sheetrock  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
10 Cellulose  
1 Fibrous Glass

**Location:** 5th Flr Near Electric Rm

Percent Non-Fibrous Material:  
89

**Lab No.:** 5855430  
**Client No.:** 163-WB2-766

Percent Asbestos:  
*None Detected*

**Description:** Lt Tan Sheetrock  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
15 Cellulose  
1 Fibrous Glass

**Location:** 6th Flr

Percent Non-Fibrous Material:  
84

**Lab No.:** 5855431  
**Client No.:** 163-WB2-767

Percent Asbestos:  
*None Detected*

**Description:** Lt Tan Sheetrock  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
10 Cellulose

**Location:** 9th Flr N Side E Wall

Percent Non-Fibrous Material:  
90

**Lab No.:** 5855432  
**Client No.:** 163-WB2-768

Percent Asbestos:  
*None Detected*


**Description:** Lt Tan Sheetrock  
**Facility:**


Percent Non-Asbestos Fibrous Material:  
2 Cellulose

**Location:** 11th Flr NE

Percent Non-Fibrous Material:  
98

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4701 N.Stiles Ave.  
Oklahoma City OK 73105

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**Project:** 1st National-E. Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855433	<b>Description:</b> Lt Tan Sheetrock	<b>Location:</b> 13th Flr Server Rm
<b>Client No.:</b> 163-WB2-769	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	20 Cellulose 2 Fibrous Glass	78

<b>Lab No.:</b> 5855433(L2)	<b>Description:</b> White Joint Compound	<b>Location:</b> 13th Flr Server Rm
<b>Client No.:</b> 163-WB2-769	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


<b>Lab No.:</b> 5855433(L3)	<b>Description:</b> Composite	<b>Location:</b> 13th Flr Server Rm
<b>Client No.:</b> 163-WB2-769	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	20 Cellulose 2 Fibrous Glass	78


<b>Lab No.:</b> 5855434	<b>Description:</b> White Joint Compound	<b>Location:</b> 1st Flr L7's
<b>Client No.:</b> 164-WB3-770	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 5855435	<b>Description:</b> White Joint Compound	<b>Location:</b> 1st Flr Far East Suite
<b>Client No.:</b> 164-WB3-771	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 5855436	<b>Description:</b> White Joint Compound	<b>Location:</b> 1st Flr Feed The Children
<b>Client No.:</b> 164-WB3-772	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

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**Project No.:** 03167033


**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855437 <b>Client No.:</b> 164-WB3-773	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 3rd Flr
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855438 <b>Client No.:</b> 164-WB3-774	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 5th Flr New Electric Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855439 <b>Client No.:</b> 164-WB3-775	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 6th Flr
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855440 <b>Client No.:</b> 164-WB3-776	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 9th Flr N Side E Wall
<u>Percent Asbestos:</u> <i>PC 1.5 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 98.5
<b>Lab No.:</b> 5855441 <b>Client No.:</b> 164-WB3-777	<b>Description:</b> White Joint Compound <b>Facility:</b>	<b>Location:</b> 13th Flr Server Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 5855442 <b>Client No.:</b> 165-PL1-778	<b>Description:</b> White Wall Texture <b>Facility:</b>	<b>Location:</b> L7's
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855443  
**Client No.:** 165-PL1-779

Percent Asbestos:  
*None Detected*

**Description:** White Wall Texture  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** L7's

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855444  
**Client No.:** 165-PL1-780

Percent Asbestos:  
*None Detected*

**Description:** White Wall Texture  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Feed The Children

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855445  
**Client No.:** 165-PL1-781

Percent Asbestos:  
*None Detected*

**Description:** White Wall Texture  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Feed The Children

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855446  
**Client No.:** 165-PL1-782

Percent Asbestos:  
*None Detected*

**Description:** White Wall Texture  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Feed The Children

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855447  
**Client No.:** 165-PL1-783

Percent Asbestos:  
*None Detected*

**Description:** White Wall Texture  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Feed The Children

Percent Non-Fibrous Material:  
100

**Lab No.:** 5855448  
**Client No.:** 165-PL1-784

Percent Asbestos:  
*None Detected*

**Description:** White Wall Texture  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Vapor Nuts

Percent Non-Fibrous Material:  
100

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**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855449 <b>Client No.:</b> 166-PL1-785	<b>Description:</b> White Wall Texture <b>Facility:</b>	<b>Location:</b> Far East Suite
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 5855450 <b>Client No.:</b> 166-PL1-786	<b>Description:</b> Sample Not Analyzed <b>Facility:</b>	<b>Location:</b> Far East Suite
<u>Percent Asbestos:</u> <i>Sample Not Analyzed</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Sample Not Analyzed	<u>Percent Non-Fibrous Material:</u>
<u>Not Analyzed, Insufficient Sample</u>		


<b>Lab No.:</b> 5855451 <b>Client No.:</b> 166-PL1-787	<b>Description:</b> White Wall Texture <b>Facility:</b>	<b>Location:</b> Far East Suite
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


<b>Lab No.:</b> 5855452 <b>Client No.:</b> 166-PL1-788	<b>Description:</b> White Wall Texture <b>Facility:</b>	<b>Location:</b> Far East Suite
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 5855453 <b>Client No.:</b> 166-PL1-789	<b>Description:</b> White Wall Texture <b>Facility:</b>	<b>Location:</b> Far East Suite
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 5855454 <b>Client No.:</b> 167-CT3-790	<b>Description:</b> Tan Ceiling Tile; 2x2 <b>Facility:</b>	<b>Location:</b> 9th Flr
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 35 Cellulose 20 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 45

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 1:14:00 PM  
**Signature:**   
**Analyst:** Ellen Smith

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105


**Report Date:** 2/17/2016  
**Report No.:** 502832 - PLM  
**Project:** 1st National-E. Bldg  
**Project No.:** 03167033

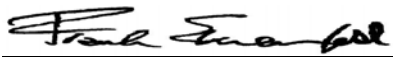
**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855455 <b>Client No.:</b> 167-CT3-791 <u>Percent Asbestos:</u> <b>PC 0.25 Chrysotile</b>	<b>Description:</b> Tan Ceiling Tile; 2x2 <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 35 Cellulose 20 Fibrous Glass	<b>Location:</b> 11th Flr  <u>Percent Non-Fibrous Material:</u> 44.75
<b>Lab No.:</b> 5855456 <b>Client No.:</b> 168-CT3-792 <u>Percent Asbestos:</u> <b>PC 1.2 Chrysotile</b>	<b>Description:</b> Tan Ceiling Tile; 2x2 <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 35 Cellulose 20 Fibrous Glass	<b>Location:</b> Basement Hall At Escalator  <u>Percent Non-Fibrous Material:</u> 43.8
<b>Lab No.:</b> 5855457 <b>Client No.:</b> 168-CT3-793 <u>Percent Asbestos:</u> <b>None Detected</b>	<b>Description:</b> Tan Ceiling Tile; 2x2 <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 35 Cellulose 20 Fibrous Glass	<b>Location:</b> 11th Flr  <u>Percent Non-Fibrous Material:</u> 45
<b>Lab No.:</b> 5855458 <b>Client No.:</b> 169-FD2-794 <u>Percent Asbestos:</u> <b>PC 8.3 Amosite</b> <b>15 Chrysotile</b>	<b>Description:</b> White Insulation <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose	<b>Location:</b> 7th Flr Stairs  <u>Percent Non-Fibrous Material:</u> 71.7
<b>Lab No.:</b> 5855459 <b>Client No.:</b> 170-MJ1-795 <u>Percent Asbestos:</u> <b>None Detected</b>	<b>Description:</b> Tan Insulation <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 25 Fibrous Glass	<b>Location:</b> 11th Flr SW Column  <u>Percent Non-Fibrous Material:</u> 75
<b>Lab No.:</b> 5855460 <b>Client No.:</b> 170-MJ1-796 <u>Percent Asbestos:</u> <b>None Detected</b>	<b>Description:</b> Tan Insulation <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 25 Fibrous Glass	<b>Location:</b> 11th Flr SE Column  <u>Percent Non-Fibrous Material:</u> 75

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**Signature:**   
**Analyst:** Ellen Smith

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/17/2016  
**Report No.:** 502832 - PLM  
**Project:** 1st National-E. Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855461	<b>Description:</b> Silver Non-Fibrous	<b>Location:</b> 15th Flr Mech. Rm
<b>Client No.:</b> 171-MS5-797	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 5855462	<b>Description:</b> Tan Insulation	<b>Location:</b> 14th Flr Boiler Rm
<b>Client No.:</b> 172-MI6-798	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	10 Cellulose 15 Fibrous Glass	75


<b>Lab No.:</b> 5855463	<b>Description:</b> Tan Vinyl Sheet Flooring	<b>Location:</b> 14th Flr Boiler Rm
<b>Client No.:</b> 173-FC5-799	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


<b>Lab No.:</b> 5855464	<b>Description:</b> White Insulation	<b>Location:</b> 14th Flr Boiler
<b>Client No.:</b> 174-PM2-800	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>90 Chrysotile</i>	None Detected	10

<b>Lab No.:</b> 5855465	<b>Description:</b> Tan Insulation	<b>Location:</b> 1st Flr Elevator Rm
<b>Client No.:</b> 175-FP1-801	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	20 Cellulose	80

<b>Lab No.:</b> 5855466	<b>Description:</b> Tan Insulation	<b>Location:</b> 15th Flr Elevator Rm
<b>Client No.:</b> 175-FP1-802	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	20 Cellulose	80

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**Analyst:** Ellen Smith

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director



## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105


**Report Date:** 2/17/2016  
**Report No.:** 502832 - PLM  
**Project:** 1st National-E. Bldg  
**Project No.:** 03167033


**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855467 <b>Client No.:</b> 175-FP1-803	<b>Description:</b> Tan Insulation <b>Facility:</b>	<b>Location:</b> 15th Flr Elevator Rm
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Cellulose	<u>Percent Non-Fibrous Material:</u> 85
<b>Lab No.:</b> 5855468 <b>Client No.:</b> 176-FP1-804	<b>Description:</b> Tan Insulation <b>Facility:</b>	<b>Location:</b> 3rd Flr Column Near Elevator
<u>Percent Asbestos:</u> <i>15 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 3 Cellulose	<u>Percent Non-Fibrous Material:</u> 82
<b>Lab No.:</b> 5855469 <b>Client No.:</b> 176-FP1-805	<b>Description:</b> Tan Insulation <b>Facility:</b>	<b>Location:</b> 4th Flr NE
<u>Percent Asbestos:</u> <i>15 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 85
<b>Lab No.:</b> 5855470 <b>Client No.:</b> 176-FP1-806	<b>Description:</b> Tan Insulation <b>Facility:</b>	<b>Location:</b> 5th Flr NW Column
<u>Percent Asbestos:</u> <i>10 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 90
<b>Lab No.:</b> 5855471 <b>Client No.:</b> 176-FP1-807	<b>Description:</b> Tan Insulation <b>Facility:</b>	<b>Location:</b> 6th Flr West Center Column
<u>Percent Asbestos:</u> <i>15 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 85
<b>Lab No.:</b> 5855472 <b>Client No.:</b> 176-FP1-808	<b>Description:</b> Tan Insulation <b>Facility:</b>	<b>Location:</b> 7th Flr West Center Column
<u>Percent Asbestos:</u> <i>15 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 85

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**Analyst:** Ellen Smith

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director



## CERTIFICATE OF ANALYSIS

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4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/17/2016  
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**Project:** 1st National-E. Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855473  
**Client No.:** 176-FP1-809

**Description:** Tan Insulation  
**Facility:**

**Location:** 8th Flr West Duct Shaft

Percent Asbestos:  
**10 Chrysotile**

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
90

**Lab No.:** 5855474  
**Client No.:** 176-FP1-810

**Description:** Tan Insulation  
**Facility:**

**Location:** 13th Flr S Center Column

Percent Asbestos:  
**15 Chrysotile**

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
85

**Lab No.:** 5855475  
**Client No.:** 176-FP1-811

**Description:** Tan Insulation  
**Facility:**

**Location:** 14th Flr S Center Column

Percent Asbestos:  
**15 Chrysotile**

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
85

**Lab No.:** 5855476  
**Client No.:** 176-FP1-812

**Description:** Tan Insulation  
**Facility:**

**Location:** 15th Flr Mech Rm AHU2

Percent Asbestos:  
**15 Chrysotile**

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
85

**Lab No.:** 5855477  
**Client No.:** 176-SCF-813

**Description:** Tan Insulation  
**Facility:**

**Location:** 5th Flr NW Column

Percent Asbestos:  
**15 Chrysotile**

Percent Non-Asbestos Fibrous Material:  
None Detected

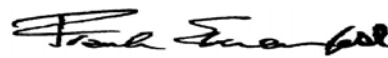
Percent Non-Fibrous Material:  
85

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**Date Analyzed:** 2/16/2016 1:14:00 PM

**Signature:**   
**Analyst:** Ellen Smith

**Approved By:**

  
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/17/2016  
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**Project:** 1st National-E. Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855478  
**Client No.:** 177-FP1-814

Percent Asbestos:  
*None Detected*

**Description:** Lt Grey Insulation  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
2 Fibrous Glass

**Location:** 1st Flr Feed The Children  
Percent Non-Fibrous Material:  
98

**Lab No.:** 5855479  
**Client No.:** 178-FP1-815

Percent Asbestos:  
*None Detected*

**Description:** White Insulation  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
70 Cellulose  
20 Fibrous Glass

**Location:** Basement West  
Percent Non-Fibrous Material:  
10

**Lab No.:** 5855480  
**Client No.:** 178-FP1-816

Percent Asbestos:  
*None Detected*

**Description:** White Insulation  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
70 Cellulose  
20 Fibrous Glass

**Location:** Basement NW  
Percent Non-Fibrous Material:  
10

**Lab No.:** 5855481  
**Client No.:** 178-FP1-817

Percent Asbestos:  
*None Detected*

**Description:** White Insulation  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
70 Cellulose  
20 Fibrous Glass

**Location:** Basement NE  
Percent Non-Fibrous Material:  
10

**Lab No.:** 5855482  
**Client No.:** 178-FP1-818

Percent Asbestos:  
*None Detected*

**Description:** White Insulation  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
70 Cellulose  
20 Fibrous Glass

**Location:** Basement Center  
Percent Non-Fibrous Material:  
10

**Lab No.:** 5855483  
**Client No.:** 178-FP1-819

Percent Asbestos:  
*None Detected*

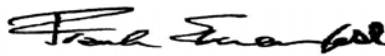
**Description:** White Insulation  
**Facility:**  
Percent Non-Asbestos Fibrous Material:  
70 Cellulose  
20 Fibrous Glass

**Location:** Basement SE  
Percent Non-Fibrous Material:  
10

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 8:18:32 AM

**Signature:**   
**Analyst:** Rachel McQuiggan

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

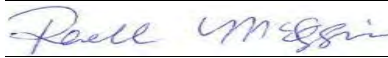
**Report Date:** 2/17/2016  
**Report No.:** 502832 - PLM  
**Project:** 1st National-E. Bldg  
**Project No.:** 03167033


**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855484 <b>Client No.:</b> 179-FP1-820 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Grey Insulation <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 80 Fibrous Glass	<b>Location:</b> 1st Flr Far East Suite <u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 5855485 <b>Client No.:</b> 179-FP1-821 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Grey Insulation <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 80 Fibrous Glass	<b>Location:</b> 3rd Flr E Wing At S Wall <u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 5855486 <b>Client No.:</b> 179-FP1-822 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Grey Insulation <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 80 Fibrous Glass	<b>Location:</b> 3rd Flr East Center <u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 5855487 <b>Client No.:</b> 179-FP1-823 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Grey Insulation <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 80 Fibrous Glass	<b>Location:</b> 3rd Flr East Wing West Side <u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 5855488 <b>Client No.:</b> 179-FP1-824 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Grey Insulation <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 80 Fibrous Glass	<b>Location:</b> 6th Flr <u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 5855489 <b>Client No.:</b> 179-FP1-825 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Grey Insulation <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 80 Fibrous Glass	<b>Location:</b> 6th Flr <u>Percent Non-Fibrous Material:</u> 20

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 8:18:32 AM  
**Signature:**   
**Analyst:** Rachel McQuiggan

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/17/2016  
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**Project:** 1st National-E. Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855490	<b>Description:</b> Grey Insulation	<b>Location:</b> 13th Flr Pipe Chase E Of Elevators
<b>Client No.:</b> 179-FP1-826	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	80 Fibrous Glass	20

<b>Lab No.:</b> 5855491	<b>Description:</b> Off-White Insulation	<b>Location:</b> 4th Flr Electrical Closet
<b>Client No.:</b> 180-FP1-827	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	25 Cellulose	75

This sample contains vermiculite mineral. It is not vermiculite attic insulation, but may be considered for possible future analysis by EPA 600-04-004.

<b>Lab No.:</b> 5855492	<b>Description:</b> Off-White Insulation	<b>Location:</b> 4th Flr NE
<b>Client No.:</b> 180-FP1-828	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	25 Cellulose	75

This sample contains vermiculite mineral. It is not vermiculite attic insulation, but may be considered for possible future analysis by EPA 600-04-004.

<b>Lab No.:</b> 5855493	<b>Description:</b> Off-White Insulation	<b>Location:</b> 4th Flr East Center
<b>Client No.:</b> 180-FP1-829	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	25 Cellulose	75

This sample contains vermiculite mineral. It is not vermiculite attic insulation, but may be considered for possible future analysis by EPA 600-04-004.

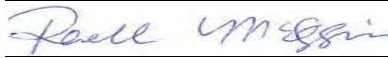
<b>Lab No.:</b> 5855494	<b>Description:</b> Off-White Insulation	<b>Location:</b> 4th Flr SW
<b>Client No.:</b> 180-FP1-830	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	25 Cellulose	75


This sample contains vermiculite mineral. It is not vermiculite attic insulation, but may be considered for possible future analysis by EPA 600-04-004.

<b>Lab No.:</b> 5855495	<b>Description:</b> Off-White Insulation	<b>Location:</b> 5th Flr NE
<b>Client No.:</b> 181-FP1-831	<b>Facility:</b>	
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	25 Cellulose	75

This sample contains vermiculite mineral. It is not vermiculite attic insulation, but may be considered for possible future analysis by EPA 600-04-004.

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**Signature:**   
**Analyst:** Rachel McQuiggan

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

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4701 N.Stiles Ave.  
Oklahoma City OK 73105

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**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 5855496	<b>Description:</b> Off-White Insulation	<b>Location:</b> 5th Flr E Center
<b>Client No.:</b> 181-FP1-832	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 25 Cellulose	<u>Percent Non-Fibrous Material:</u> 75

*This sample contains vermiculite mineral. It is not vermiculite attic insulation, but may be considered for possible future analysis by EPA 600-04-004.*

<b>Lab No.:</b> 5855497	<b>Description:</b> Off-White Insulation	<b>Location:</b> 5th Flr NW Corner
<b>Client No.:</b> 181-FP1-833	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 25 Cellulose	<u>Percent Non-Fibrous Material:</u> 75

*This sample contains vermiculite mineral. It is not vermiculite attic insulation, but may be considered for possible future analysis by EPA 600-04-004.*

<b>Lab No.:</b> 5855498	<b>Description:</b> Off-White Insulation	<b>Location:</b> 5th Flr SW
<b>Client No.:</b> 181-FP1-834	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 25 Cellulose	<u>Percent Non-Fibrous Material:</u> 75

*This sample contains vermiculite mineral. It is not vermiculite attic insulation, but may be considered for possible future analysis by EPA 600-04-004.*

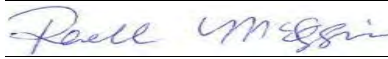
<b>Lab No.:</b> 5855499	<b>Description:</b> Off-White Insulation	<b>Location:</b> 5th Flr Center Kitchen
<b>Client No.:</b> 181-FP1-835	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 25 Cellulose	<u>Percent Non-Fibrous Material:</u> 75


*This sample contains vermiculite mineral. It is not vermiculite attic insulation, but may be considered for possible future analysis by EPA 600-04-004.*

<b>Lab No.:</b> 5855500	<b>Description:</b> Grey Insulation	<b>Location:</b> 6th Flr E Center
<b>Client No.:</b> 182-FP1-836	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 80 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 20

<b>Lab No.:</b> 5855501	<b>Description:</b> Grey Insulation	<b>Location:</b> 6th Flr W Center
<b>Client No.:</b> 182-FP1-837	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 80 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 20

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 8:18:32 AM  
**Signature:**   
**Analyst:** Rachel McQuiggan

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
4701 N.Stiles Ave.  
Oklahoma City OK 73105

**Report Date:** 2/17/2016  
**Report No.:** 502832 - PLM  
**Project:** 1st National-E. Bldg  
**Project No.:** 03167033

**Client:** TER845

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 5855502  
**Client No.:** 183-FP1-838

**Description:** Tan Insulation  
**Facility:**

**Location:** 7th Flr W Center

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
25 Cellulose

Percent Non-Fibrous Material:  
75

~~This sample contains vermiculite mineral. It is not vermiculite attic insulation, but may be considered for possible future analysis by EPA 600-04-004.~~

**Lab No.:** 5855503  
**Client No.:** 183-FP1-839

**Description:** Tan Insulation  
**Facility:**

**Location:** 7th Flr E Center

Percent Asbestos:  
*None Detected*

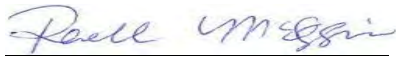
Percent Non-Asbestos Fibrous Material:  
25 Cellulose

Percent Non-Fibrous Material:  
75

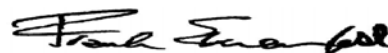
This sample contains vermiculite mineral. It is not vermiculite attic insulation, but may be considered for possible future analysis by EPA 600-04-004.

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 2/11/2016  
**Date Analyzed:** 2/16/2016 8:18:32 AM

**Signature:**   
**Analyst:** Rachel McQuiggan

**Approved By:**



Frank E. Ehrenfeld, III  
Laboratory Director



## Chain of Custody, Building Inspection Form

Project Site Name/Building Name: <u>1st National - E. Bldg.</u>				Project No.: <u>03167033</u>			
Date: <u>2/4/16</u>			Inspector(s): <u>Stacey Fowler</u>		send results to : <u>scfowler@terracon.com</u>		
HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>
159	TSI	Drywall - old	5855395	Basement - far east tent space	F	G	NPD
	TSI		5855396	2nd floor center	Cat I.	D	PD
	M		5855397	3rd floor center	Cat II.	SD	PSD
	S		5855398	4th floor center	F	G	NPD
	TSI		5855399	6th floor center	Cat I.	D	PD
	M		5855400	7th floor center	Cat II.	SD	PSD
	S		5855401	8th floor center	F	G	NPD
	TSI		5855402	13th floor electric closet	Cat I.	D	PD
	M		5855403	14th floor electric room	Cat II.	SD	PSD
	S		5855404	15th floor elevator room	F	G	NPD
160	TSI	Joint compound old	5855405	Basement - far east tent space	F	G	NPD
	TSI		5855406	2nd floor center	Cat I.	D	PD
	M		5855407	3rd floor center	Cat II.	SD	PSD
	S		5855408	4th floor center	F	G	NPD
	TSI		5855409	5th floor next to stairs in hall	Cat I.	D	PD
	M		5855410	6th floor center	Cat II.	SD	PSD
	S		5855411	7th floor center	F	G	NPD
	TSI		5855412	8th floor center	Cat I.	D	PD
	M		5855413	13th floor electric closet	Cat II.	SD	PSD
	S		5855414	14th floor electric room	F	G	NPD
88	TSI	Joint compound - circular stairs	5855415	11th floor new elevator stairs	F	G	NPD
	TSI		5855416	12th floor new circular stairs	Cat I.	D	PD
	M		5855417		Cat II.	SD	PSD

1. M = Miscellaneous; S = Surfacing; or TSI = Thermal Systems Insulation  
2. F = Friable; CAT I = Category I Nonfriable (packing, gaskets, resilient floor covering, and roofing products); or CAT II = Category II Nonfriable

3. G = Good (<1%); D = Damaged (<10%); or SD = Significantly Damaged (>10% overall or >25% localized)  
4. NPD = No Potential for Disturbance; PD = Potential for Disturbance; or PSD = Potential for Significant Disturbance

Turnaround Time: Rush _____ 24 Hr. <input checked="" type="checkbox"/> 72 Hr. _____ Standard (5 day)		Positive Stop: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Relinquished By: <u>Stacey Fowler</u> Date/Time: <u>2/10/16</u>	
Comments: <u>Reloc 2-17-16</u>		Received By: <u>109</u> Date/Time: <u>2/10/2016</u>		ATL - BY: <u>102</u> 2/15/16	



## Chain of Custody Building Inspection Form

Project Site Name/Building Name: <u>1st National - East Bldg</u>				Project No.: <u>03167033</u>			
Date: <u>2/4/16</u>			Inspector(s): <u>Stacey Fowler</u>			send results to : <u>scfowler@terracon.com</u>	
HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>
161	WB3-754	S	5855418	11th fl - NW	F	G	NPD
	755	TSI	5855419	11th fl. East	Cat I.	D	PD
	756	M	5855420	11th fl. - East	Cat II.	SD	PSD
162	WB3-757	S	5855421	6th fl. East	F	G	NPD
	758	TSI	5855422	6th fl. NW - East side	Cat I.	D	PD
	759	M	5855423	6th fl. S. middle	Cat II.	SD	PSD
163	WB3-760	S	5855424	1st floor - L73	F	G	NPD
	761	TSI	5855425	1st floor Far east suite	Cat I.	D	PD
	762	M	5855426	1st floor - Feed the Children	Cat II.	SD	PSD
	763	S	5855427	2nd floor North	F	G	NPD
	764	TSI	5855428	3rd floor	Cat I.	D	PD
	765	M	5855429	5th floor new electric rm	Cat II.	SD	PSD
	766	S	5855430	6th floor	F	G	NPD
	767	TSI	5855431	9th fl. N side E. wall	Cat I.	D	PD
	768	M	5855432	11th fl. NE	Cat II.	SD	PSD
	769	S	5855433	13th fl. Server room	F	G	NPD
		TSI			Cat I.	D	PD
		M			Cat II.	SD	PSD
164	WB3-770	S	5855434	1st floor - L73	F	G	NPD
	771	TSI	5855435	1st floor - Far east suite	Cat I.	D	PD
	772	M	5855436	1st floor Feed the Children	Cat II.	SD	PSD
	773	S	5855437	3rd floor	F	G	NPD
	774	TSI	5855438	5th floor New electric room	Cat I.	D	PD
	775	M	5855439	6th floor	Cat II.	SD	PSD
	776	S	5855440	9th floor N side E. wall	F	G	NPD
	777	TSI	5855441	13th floor Server room	Cat I.	D	PD
		M			Cat II.	SD	PSD

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4. NPD = No Potential for Disturbance; PD = Potential for Disturbance; or PSD = Potential for Significant Disturbance

Turnaround Time: Rush _____ 24 Hr. <u>X</u> 72 Hr. _____ Standard(5day)	Positive Stop: Yes _____ No <u>X</u>	Relinquished By: <u>Stacey Fowler</u>	Date/Time: <u>2/10/16</u>
Comments:		Received By:	Date/Time:



# Chain of Custody Building Inspection Form

4701 N. Stiles Ave.  
Oklahoma City, Oklahoma 73105  
(405) 525-0453 Office  
(405) 557-0549 Fax

Project Site Name/Building Name: <u>1st National - East</u>					Project No.: <u>03167033</u>			
Date: <u>2/14/16</u>			Inspector(s): <u>Stacey Fowler</u>		send results to : <u>scfowler@terracon.com</u>			
HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>	
<u>165</u>	<u>PL1-778</u>	<u>S</u>	<u>5855442</u>	<u>LT's</u>	<u>F</u>	<u>G</u>	<u>NPD</u>	
	<u>779</u>	<u>TSI</u>	<u>5855443</u>	<u>LT's</u>	<u>Cat I.</u>	<u>D</u>	<u>PD</u>	
	<u>780</u>	<u>M</u>	<u>5855444</u>	<u>Feed the children</u>	<u>Cat II.</u>	<u>SD</u>	<u>PSD</u>	
	<u>781</u>	<u>S</u>	<u>5855445</u>	<u>Feed the children</u>	<u>F</u>	<u>G</u>	<u>NPD</u>	
	<u>782</u>	<u>TSI</u>	<u>5855446</u>	<u>Feed the children</u>	<u>Cat I.</u>	<u>D</u>	<u>PD</u>	
	<u>783</u>	<u>M</u>	<u>5855447</u>	<u>Feed the children</u>	<u>Cat II.</u>	<u>SD</u>	<u>PSD</u>	
	<u>784</u>	<u>S</u>	<u>5855448</u>	<u>Vapor Mints</u>	<u>F</u>	<u>G</u>	<u>NPD</u>	
		<u>TSI</u>			<u>Cat I.</u>	<u>D</u>	<u>PD</u>	
		<u>M</u>			<u>Cat II.</u>	<u>SD</u>	<u>PSD</u>	
<u>166</u>	<u>PL1-785</u>	<u>S</u>	<u>5855449</u>	<u>Forecast suite</u>	<u>F</u>	<u>G</u>	<u>NPD</u>	
	<u>786</u>	<u>TSI</u>	<u>5855450</u>	<u>Forecast suite</u>	<u>Cat I.</u>	<u>D</u>	<u>PD</u>	
	<u>787</u>	<u>M</u>	<u>5855451</u>	<u>For east suite</u>	<u>Cat II.</u>	<u>SD</u>	<u>PSD</u>	
	<u>788</u>	<u>S</u>	<u>5855452</u>	<u>For east suite</u>	<u>F</u>	<u>G</u>	<u>NPD</u>	
	<u>789</u>	<u>TSI</u>	<u>5855453</u>	<u>For east suite</u>	<u>Cat I.</u>	<u>D</u>	<u>PD</u>	
		<u>M</u>			<u>Cat II.</u>	<u>SD</u>	<u>PSD</u>	
<u>167</u>	<u>LT3-790</u>	<u>S</u>	<u>5855454</u>	<u>9th floor</u>	<u>F</u>	<u>G</u>	<u>NPD</u>	
	<u>791</u>	<u>TSI</u>	<u>5855455</u>	<u>11th floor</u>	<u>Cat I.</u>	<u>D</u>	<u>PD</u>	
		<u>M</u>			<u>Cat II.</u>	<u>SD</u>	<u>PSD</u>	
<u>168</u>	<u>LT3-792</u>	<u>S</u>	<u>5855456</u>	<u>Basement hall at escalator</u>	<u>F</u>	<u>G</u>	<u>NPD</u>	
	<u>793</u>	<u>TSI</u>	<u>5855457</u>	<u>11th floor</u>	<u>Cat I.</u>	<u>D</u>	<u>PD</u>	
		<u>M</u>			<u>Cat II.</u>	<u>SD</u>	<u>PSD</u>	
<u>169</u>	<u>FD2-794</u>	<u>S</u>	<u>5855458</u>	<u>8th floor stairs</u>	<u>F</u>	<u>G</u>	<u>NPD</u>	
		<u>TSI</u>			<u>Cat I.</u>	<u>D</u>	<u>PD</u>	
		<u>M</u>			<u>Cat II.</u>	<u>SD</u>	<u>PSD</u>	
<u>170</u>	<u>MS1-795</u>	<u>S</u>	<u>5855459</u>	<u>11th fl. SW column</u>	<u>F</u>	<u>G</u>	<u>NPD</u>	
	<u>796</u>	<u>TSI</u>	<u>5855460</u>	<u>11th fl. SE column</u>	<u>Cat I.</u>	<u>D</u>	<u>PD</u>	
		<u>M</u>			<u>Cat II.</u>	<u>SD</u>	<u>PSD</u>	

1. M = Miscellaneous; S = Surfacing; or TSI = Thermal Systems Insulation  
2. F = Friable; CAT I = Category I Nonfriable (packing, gaskets, resilient floor covering, and roofing products); or CAT II = Category II Nonfriable

3. G = Good (<1%); D = Damaged (<10%); or SD = Significantly Damaged (>10% overall or >25% localized)  
4. NPD = No Potential for Disturbance; PD = Potential for Disturbance; or PSD = Potential for Significant Disturbance

Turnaround Time: ____ Rush ____ 24 Hr. <u>X</u> 72Hr. ____ Standard(5day)	Positive Stop: ____ Yes <u>X</u> No	Relinquished By: <u>Stacey Fowler</u>	Date/Time: <u>2/10/16</u>
Comments:		Received By:	Date/Time:



# Chain of Custody Building Inspection Form

4701 N. Stiles Ave.  
Oklahoma City, Oklahoma 73105  
(405) 525-0453 Office  
(405) 557-0549 Fax

Project Site Name/Building Name: <u>1st National - East Bldg.</u>					Project No.: <u>03167033</u>			
Date: <u>2/14/16</u>			Inspector(s): <u>Stacey Fowler</u>		send results to : <u>scfowler@terracon.com</u>			
HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>	
171	MSS-797	Plastic baffles	5855461	15th fl. mech. room	F	G	NPD	
					Cat I.	D	PD	
					Cat II.	SD	PSD	
172	MIB-798	Boiler Breach	5855462	14th floor boiler room	F	G	NPD	
					Cat I.	D	PD	
					Cat II.	SD	PSD	
173	FCS-799	Boiler room flooring	5855463	Boiler room 14th fl.	F	G	NPD	
					Cat I.	D	PD	
					Cat II.	SD	PSD	
174	PM2-800	Boiler gasket	5855464	14th floor Boiler	F	G	NPD	
					Cat I.	D	PD	
					Cat II.	SD	PSD	
175	FPI-801	Fire proofing	5855465	15th floor elevator room	F	G	NPD	
	802		5855466	15th floor elevator room	Cat I.	D	PD	
	803		5855467	15th floor elevator room	Cat II.	SD	PSD	
176	FPI-804	Fire proofing - old / perimeter columns	5855468	3rd floor column near elevator	F	G	NPD	
	805		5855469	4th floor NE	Cat I.	D	PD	
	806		5855470	5th floor NW column	Cat II.	SD	PSD	
	807		5855471	6th floor west center column	F	G	NPD	
	808		5855472	7th floor west center column	Cat I.	D	PD	
	809		5855473	8th floor west duct shaft	Cat II.	SD	PSD	
	810		5855474	13th floor S. center column	F	G	NPD	
	811		5855475	14th floor S. center column	Cat I.	D	PD	
	812		5855476	15th floor mech room AHU 2	Cat II.	SD	PSD	
177	FPI-813	Fire proofing	5855477	5th floor Feed the children	F	G	NPD	
					Cat I.	D	PD	
					Cat II.	SD	PSD	

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3. G= Good (<1%); D= Damaged (<10%); or SD= Significantly Damaged (>10% overall or >25% localized)  
4. NPD= No Potential for Disturbance; PD= Potential for Disturbance; or PSD= Potential for Significant Disturbance

Turnaround Time: Rush 24 Hr. <u>X</u> 72 Hr. Standard(5day)	Positive Stop: <u>Yes</u> <u>X</u> No	Relinquished By: <u>Stacey Fowler</u>	Date/Time: <u>2/10/16</u>
Comments:		Received By:	Date/Time:

## Chain of Custody, Building Inspection Form

Project Site Name/Building Name: <u>1st National Center - E. bldg</u>					Project No.: <u>03167033</u>			
Date: <u>2/4/16</u>			Inspector(s): <u>Stacey Fowler</u>		send results to : <u>scfowler@terracon.com</u>			
HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For. Disturb. <sup>4</sup>	
<u>177</u> <u>178</u>	<u>FPI-814</u> S TSI M	<u>Fireproofing - new?</u>	<u>5855478</u>	<u>5th floor - North corner</u> <u>1st floor feed the children</u>	F Cat I. Cat II.	G D SD	NPD PD PSD	
<u>178</u>	<u>FPI-815</u> <u>816</u> <u>817</u> S TSI M	<u>Fireproofing - fluffy</u> <u>(new) white</u>	<u>5855479</u> <u>5855480</u> <u>5855481</u>	<u>Basement west</u> <u>Basement NW</u> <u>Basement NE</u>	F Cat I. Cat II.	G D SD	NPD PD PSD	
	<u>818</u> <u>819</u> S TSI M		<u>5855482</u> <u>5855483</u>	<u>Basement center</u> <u>Basement SE</u>	F Cat I. Cat II.	G D SD	NPD PD PSD	
<u>179</u>	<u>FPI-820</u> <u>821</u> <u>822</u> S TSI M	<u>Fireproofing - new</u> <u>Rat tunnel</u>	<u>5855484</u> <u>5855485</u> <u>5855486</u>	<u>1st floor - Far east suite</u> <u>3rd floor - E wing at S. wall</u> <u>3rd floor - East center</u>	F Cat I. Cat II.	G D SD	NPD PD PSD	
	<u>823</u> <u>824</u> <u>825</u> S TSI M		<u>5855487</u> <u>5855488</u> <u>5855489</u>	<u>3rd floor - East wing west side</u> <u>6th floor</u> <u>6th floor</u>	F Cat I. Cat II.	G D SD	NPD PD PSD	
	<u>826</u> S TSI M		<u>5855490</u>	<u>13th floor - pre-chase E. of elevators</u>	F Cat I. Cat II.	G D SD	NPD PD PSD	
<u>180</u>	<u>FPI-827</u> <u>828</u> <u>829</u> S TSI M	<u>Fireproofing new</u>	<u>5855491</u> <u>5855492</u> <u>5855493</u>	<u>4th floor electrical closet</u> <u>4th fl NE</u> <u>4th fl East center</u>	F Cat I. Cat II.	G D SD	NPD PD PSD	
	<u>830</u> S TSI M		<u>5855494</u>	<u>4th fl SW</u>	F Cat I. Cat II.	G D SD	NPD PD PSD	
<u>181</u>	<u>FPI-831</u> <u>832</u> <u>833</u> S TSI M	<u>Fireproofing new</u>	<u>5855495</u> <u>5855496</u> <u>5855497</u>	<u>5th floor NE</u> <u>5th floor E. center</u> <u>5th floor NW corner</u>	F Cat I. Cat II.	G D SD	NPD PD PSD	

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2. F = Friable; CAT I = Category I Nonfriable (packing, gaskets, resilient floor covering, and roofing products); or CAT II = Category II Nonfriable

3. G = Good (<1%); D = Damaged (<10%); or SD = Significantly Damaged (>10% overall or >25% localized)  
4. NPD = No Potential for Disturbance; PD = Potential for Disturbance; or PSD = Potential for Significant Disturbance

Turnaround Time: ____ Rush ____ 24 Hr. <u>X</u> 72Hr. ____ Standard(5day)	Positive Stop: ____ Yes <u>X</u> No	Relinquished By: <u>Stacey Fowler</u>	Date/Time: <u>2/10/16</u>
Comments: <u>As per memo</u> <u>(R) dbr 2-17-16</u>		Received By:	Date/Time:



# Chain of Custody, Building Inspection Form

4701 N. Stiles Ave.  
Oklahoma City, Oklahoma 73105  
(405) 525-0453 Office  
(405) 557-0549 Fax

Project Site Name/Building Name: <u>1st National - East Bldg</u>					Project No.: <u>03102033</u>			
Date: <u>2/4/16</u>			Inspector(s): <u>Stacey Fowler</u>		send results to : <u>scfowler@terracon.com</u>			
HA No./ Sample No.	Mat. Class. <sup>1</sup>	Material Location/Description/Quantities	Quantity	Material Sample Location	Friability <sup>2</sup>	Phy. Cond. <sup>3</sup>	Pot. For Disturb. <sup>4</sup>	
<u>181</u>	<u>FPI - 834</u>	<u>Fireproofing - new</u>	<u>5855498</u>	<u>5th floor S.W.</u>	F	G	NPD	
	<u>835</u>		<u>5855499</u>		<u>5th floor center kitchen</u>	Cat I.	D	PD
					Cat II.	SD	PSD	
<u>182</u>	<u>FPI - 836</u>	<u>Fireproofing - new</u>	<u>5855500</u>	<u>6th floor E. center</u>	F	G	NPD	
	<u>837</u>		<u>5855501</u>		<u>6th floor W. center</u>	Cat I.	D	PD
					Cat II.	SD	PSD	
<u>183</u>	<u>FPI - 838</u>	<u>Fireproofing - new</u>	<u>5855502</u>	<u>7th floor W. center</u>	F	G	NPD	
	<u>839</u>		<u>5855503</u>		<u>7th floor E. center</u>	Cat I.	D	PD
					Cat II.	SD	PSD	
					F	G	NPD	
					Cat I.	D	PD	
					Cat II.	SD	PSD	
					F	G	NPD	
					Cat I.	D	PD	
					Cat II.	SD	PSD	
					F	G	NPD	
					Cat I.	D	PD	
					Cat II.	SD	PSD	
					F	G	NPD	
					Cat I.	D	PD	
					Cat II.	SD	PSD	

1. M= Miscellaneous; S = Surfacing; or TSI = Thermal Systems Insulation  
2. F = Friable; CAT I = Category I Nonfriable (packing, gaskets, resilient floor covering, and roofing products); or CAT II = Category II Nonfriable

3. G = Good (<1%); D = Damaged (<10%); or SD = Significantly Damaged (>10% overall or >25% localized)  
4. NPD = No Potential for Disturbance; PD = Potential for Disturbance; or PSD = Potential for Significant Disturbance

Turnaround Time: ____ Rush ____ 24 Hr. <u>X</u> 72Hr. ____ Standard(5day)	Positive Stop: ____ Yes <u>X</u> No	Relinquished By: <u>Stacey Fowler</u>	Date/Time: <u>2/10/16</u>
Comments:		Received By:	Date/Time:

## **APPENDIX D**

### **LICENSES AND CERTIFICATIONS**

Oklahoma Department of Labor certifies that:

**Stacey Fowler**

License Number **401515**  
is Licensed as

**Asbestos  
Management Planner**

Issued **08/03/2015** Expire **07/28/2016**



*Mark Costello*  
Mark Costello  
Commissioner of Labor

Weight **160**  
Height **5.6**  
Eyes **Brown**  
Hair **Brown**

*Not intended for identification purposes*



Oklahoma Department of Labor certifies that:

**Patrick Rice**

License Number **401226**  
is Licensed as

**Asbestos  
Inspector**

Issued **05/27/2015** Expire **05/27/2016**



*Mark Costello*  
Mark Costello  
Commissioner of Labor

Weight **175**  
Height **5.10**  
Eyes **Hazel**  
Hair **Brown**

*Not intended for identification purposes*

Oklahoma Department of Labor certifies that:

**Stuart Shumate**

License Number **401470**  
is Licensed as

**Asbestos  
Inspector**



Issued **05/22/2015** Expire **05/20/2016**

*Mark Costello*  
Mark Costello  
Commissioner of Labor

Weight **186**  
Height **5.9**  
Eyes **Blue**  
Hair **Blonde**

*Not intended for identification purposes*

## **APPENDIX E**

### **COST ESTIMATE FOR ABATEMENT**

## Terracon Engineering Estimate<sup>1</sup>

<u>Material</u>	<u>Quantity</u>	<u>Range</u>	<u>Total Range</u>	<u>Best Guess</u>
Fireproofing	480,000 SF	\$10 - \$20	\$4,800,000 - \$9,600,000	\$7,000,000
Acoustic Plaster	11,530 SF	\$8 - \$16	\$92,240 - \$184,480	\$100,000
Piping	45,000 LF	\$10 - \$20	\$450,000 - \$900,000	\$500,000
Thermal Plaster (Duct, Breech, Air Handler)	15,715 SF	\$8 - \$16	\$125,720 - \$252,440	\$150,000
Paper Tape/Fiberglass—29,000SF (Round and boxed Ducts)		\$5 - \$10	\$145,000 - \$290,000	\$150,000
Ceiling Tile (Most Ceiling Tile is below Fireproofing)	87,000 SF	\$1 - \$2	\$87,000 - \$174,000	\$125,000
Joint Compound (Associated and Quantified with Drywall)	330,000 SF	\$3 - \$6	\$990,000 - \$1,980,000	\$1,000,000
Floor Tile, Mastic (Generally under Carpet)	255,000 SF	\$2 - \$3.5	\$510,000 - \$892,000	\$650,000
Fire Doors	250 Doors	\$2 - \$4	\$500 - \$1,000	\$1,000
Transite	13,000 SF	\$3 - \$6	\$39,000 - \$78,000	\$50,000
Sheet Vinyl	1,300 SF	\$5 - \$10	\$6,500 - \$13,000	\$10,000
Adhesive (Ceiling Tiles and Mirrors)	57,000 SF	\$3 - \$6	\$171,000 - \$342,000	\$200,000
Caulks/Glaze (Windows and Doors)	1700 Windows	\$20 - \$40	\$34,000 - \$68,000	\$50,000
Roof (assumed)	21,000 SF	\$4 - \$8	\$84,000 - \$168,000	\$100,000
<b>Total</b>			<b>\$7,535,000 - \$15,033,000</b>	<b>\$10,085,000</b> <b>Contingency - \$500,000</b>

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<sup>1</sup> The Terracon Engineering estimate was calculated by Terracon's National Director for Asbestos Services and 30-year industry veteran.

### **Third Party Estimate<sup>2</sup>**

East Building	\$6,170,500.00
Center Building	\$610,000.00
West Building	\$2,160,000.00
Total	\$8,940,500.00

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<sup>2</sup> The third party estimate was provided by a Terracon preferred Oklahoma Licensed Asbestos Abatement Contractor.

## **APPENDIX F**

**TERRACON ASBESTOS SURVEY REPORT 03147033**

# Asbestos Survey

First National Center  
120 North Robinson Avenue  
Oklahoma City, Oklahoma

May 14, 2014

Terracon Project No. 03147033



**Prepared for:**

Pepper Development Services  
Highland, Illinois

**Prepared by:**

Terracon Consultants, Inc.  
Oklahoma City, OK

[terracon.com](http://terracon.com)

**Terracon**

Environmental



Facilities



Geotechnical



Materials



May 14, 2014

Pepper Development Services  
2013 Skyelar Court  
Highland, Illinois 60035



Attn: Michael Pepper  
P: (312) 927-0772  
E: michael.pepper@pepperdevelopment.com

Re: Asbestos Survey  
First National Center  
120 North Robinson Avenue  
Oklahoma City, Oklahoma 73102  
Terracon Project No. 03147033

Dear Mr. Pepper:

Terracon Consultants, Inc. (Terracon) is pleased to submit the attached report for the above referenced site to Pepper Development Services. The purpose of this report is to present the results of an asbestos survey performed in the month of April 2014. This survey was conducted in general accordance with our proposal dated February 28, 2014. We understand that this survey was requested due to the potential for renovation and/or demolition activities within the above referenced building.

Based on laboratory analyses asbestos containing materials were identified. Please see the attached report for details.

Terracon appreciates the opportunity to provide this service to Pepper Development Services. If you have any questions regarding this report please contact the undersigned at 405-525-0453.

Sincerely,  
**Terracon Consultants, Inc.**

A handwritten signature in blue ink, appearing to read 'Stacey Fowler', is positioned above the printed name.

Stacey Fowler  
Field Industrial Hygienist

A handwritten signature in blue ink, appearing to read 'Ben A. Baggett', is positioned above the printed name.

Ben A. Baggett  
Senior Project Manager

A handwritten signature in blue ink, appearing to read 'Mitch Reber', is positioned above the printed name.

Mitch Reber CIH, PG  
Senior Industrial Hygienist

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## **Asbestos Survey**

First National Center ■ Oklahoma City, Oklahoma

May 14, 2014 ■ Terracon Project No. 03147033



## **EXECUTIVE SUMMARY**

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of the building located at 120 North Robinson Avenue, Oklahoma City, Oklahoma. We understand this asbestos survey was requested due to the potential for renovation and/or demolition activities within the on-site building. The purpose of this survey was to sample and identify suspect asbestos-containing materials (ACM) and provide information regarding the identity, location, condition and approximate quantities of ACM in interior and exterior building components. The survey was performed in the month of April, 2014 by AHERA accredited and state of Oklahoma licensed asbestos inspectors in general accordance with our proposal dated February 28, 2014, and the sampling protocols established in United State Environmental Protection Agency (USEPA) 40 Code of Federal Regulations (CFR) Part 763 Subpart E 763, known as the Asbestos Hazard Emergency Response Act, (AHERA). Terracon collected 492 bulk samples from 210 homogeneous areas of suspect ACM.



**ASBESTOS SURVEY**  
**First National Center**  
**120 North Robinson Avenue, Oklahoma City, Oklahoma**  
**Terracon Project No. 03147033**  
**May 14, 2014**

## **1.0 INTRODUCTION**

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of the building located at 120 North Robinson Avenue, Oklahoma City, Oklahoma. The survey was conducted in the month of April, 2014 by AHERA accredited and state of Oklahoma licensed asbestos inspectors in general accordance with Terracon Proposal No. P03140150 dated February 28, 2014. The interior and exterior building components were surveyed, and homogeneous areas of suspect asbestos-containing materials (ACM) were visually identified and documented. Although reasonable effort was made to survey accessible suspect materials, additional suspect but unsampled materials could be located in walls, in voids or in other concealed areas. Suspect ACM samples were collected in general accordance with the sampling protocols outlined in United States Environmental Protection Agency (USEPA) 40 Code of Federal Regulations (CFR) Part 763 Subpart E 763, known as the Asbestos Hazard Emergency Response Act (AHERA). Samples were delivered to an accredited laboratory for analysis by Polarized Light Microscopy (PLM).

We understand this asbestos survey was requested due to the potential for renovation and/or demolition activities within the on-site building to satisfy requirements of the USEPA 40 CFR Part 61, Subpart M, the National Emission Standards for Hazardous Air Pollutants (NESHAP).

### **1.1 Reliance**

This report is for the exclusive use of Pepper Development Services for the project being discussed. Reliance by any other party on this report is prohibited without written authorization of Terracon and Pepper Development Services. Reliance on this report by Pepper Development Services and all authorized parties will be subject to the terms, conditions, and limitations stated in the proposal, this report and Terracon's Agreement for Services. The limitations of liability defined in Terracon's Agreement for Services is the aggregate limit of Terracon's liability to Pepper Development Services.

## **2.0 BUILDING DESCRIPTION**

The First National Center consists of three interconnected buildings, referred to as the West Building, Center Building and East Building. The West Building consists of thirty-three (33) floors comprising approximately 451,086 square feet reportedly constructed in 1931. The Center consists of fourteen (14) floors comprising approximately 201,915 square feet reportedly

## **Asbestos Survey**

First National Center ■ Oklahoma City, Oklahoma

May 14, 2014 ■ Terracon Project No. 03147033

constructed in 1956. The East Building consists of fifteen (15) floors comprising approximately 346,650 square feet reportedly constructed in 1974. At the time of the survey, the sub-basement and basements of the buildings consisted predominantly of equipment rooms and the former safe deposit vaults (West Building). The 1<sup>st</sup> or ground level floors consisted predominantly of retail shopping, service vendors and food service. The remaining floors consisted predominantly of lease office space.

## **3.0 FIELD ACTIVITIES**

The survey was conducted by Ben Baggett, David Tarver and Stacey Fowler, AHERA accredited and state of Oklahoma licensed asbestos inspectors. A copy of asbestos inspector licenses is attached as Appendix D. The survey was conducted in general accordance with the sample collection protocols established in USEPA 40 CFR Part 763 Subpart E 763.86, AHERA. A summary of survey activities is provided below.

### **3.1 Visual Assessment**

Survey activities were initiated with visual observation of the interior and exterior of the building to identify homogeneous areas of suspect ACM. A homogeneous area (HA) consists of building materials that appear similar throughout in terms of color and texture with consideration given to the date of application. Interior assessment was conducted in visually accessible areas of the building proposed for renovation and/or demolition activities.

The survey was limited to reasonably accessible area of the buildings. Tenant spaces to which keys were not readily available or access denied for security concerns are not included in the survey.

### **3.2 Physical Assessment**

A physical assessment of each homogeneous area (HA) of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the USEPA as a material which can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

### **3.3 Sample Collection**

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance with USEPA AHERA sampling protocols. Samples of suspect materials were collected from randomly selected locations in each homogeneous area. Bulk samples were collected using wet methods as applicable to reduce the potential for fiber release.



## **Asbestos Survey**

First National Center ■ Oklahoma City, Oklahoma

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Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker.

The selection of sample locations and frequency of sampling were based on Terracon's observations and the assumption that like materials in the same area are homogeneous in content. Intrusive procedures nor sample collection was performed in tenant-occupied areas of the buildings. Terracon collected 492 bulk samples from 210 homogeneous areas of suspect ACM. A summary of suspect ACM samples collected during the survey is included as Appendix B.

### **3.4 Sample Analysis**

Bulk samples were submitted under chain of custody to Quantem of Oklahoma City, OK for analysis by polarized light microscopy with dispersion staining techniques per USEPA methodology 600/R-93/116. The percentage of asbestos, where applicable, was determined by microscopic visual estimation. Quantem is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP) Accreditation No. 101959-0. The laboratory was instructed to analyze samples from each homogeneous area until the first sample containing asbestos was identified.

## **4.0 REGULATORY OVERVIEW**

The Oklahoma Department of Environmental Quality (ODEQ) adopted the NESHAP regulations (OAC 252:100, 41-15) for asbestos control in Oklahoma. The owner or operator must provide ODEQ with written notification at least 10 working days prior to the commencement of asbestos abatement activities that will disturb RACM in amounts greater than or equal to 160 square feet, 260 linear feet or 35 cubic feet.

The asbestos NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. The asbestos NESHAP regulation also requires the identification and classification of existing ACM according to friability prior to demolition or renovation activity. Friable ACM is a material containing more than 1% asbestos that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. All friable ACM is considered regulated asbestos containing material (RACM).

The asbestos NESHAP regulation classifies ACM as either RACM, Category I non-friable ACM or Category II non-friable ACM. RACM includes all friable ACM, along with Category I and Category II non-friable ACM that has become friable, will be or has been subjected to sanding, grinding, cutting or abrading, or ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder in the course of renovation or demolition activity. Category I non-friable ACM are exclusively asbestos-containing packings, gaskets, resilient



## Asbestos Survey

First National Center ■ Oklahoma City, Oklahoma

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floor coverings, resilient floor covering mastics and asphalt roofing products that contain more than 1% asbestos. Category II non-friable ACM are all other non-friable materials other than Category I non-friable ACM that contain more than 1% asbestos. Category II non-friable ACM generally includes but is not limited to cementitious material such as: cement pipes, cement siding, cement panels, glazing, mortar and grouts.

The Oklahoma Department of Labor (ODOL) under the Oklahoma Asbestos Control Act (OAC) Title 40 § 450-456 administer the United States Occupational Safety and Health Administration (USOSHA) asbestos standard for construction (29 CFR 1926.1101) that regulates workplace exposure to asbestos. The USOSHA standard requires that employee exposure to airborne asbestos fibers be maintained at or below 0.1 fibers per cubic centimeter of air (0.1 f/cc) as an eight hour time weighted average (TWA) and not exceed 1.0 fibers per cubic centimeter of air (1.0 f/cc) over a 30 minute time period known as an excursion limit (EL). The TWA and EL are known as OSHA's permissible exposure limits (PELs). The OSHA standard classifies construction and maintenance activities which could disturb ACM, and specifies work practices and precautions which employers must follow when engaging in each class of regulated work.

## 5.0 FINDINGS

Asbestos containing materials were identified to be present in the samples collected and analyzed or assumed present. The following summarizes the findings:

### West Building

■ Acoustical/fireproofing ceiling	Boiler room	Friable
■ Acoustical/fireproofing ceiling	Former safe deposit area,	Friable
■ Acoustical/fireproofing ceiling	4th floor, 31st and 32nd floor	Friable
■ Duct tape	Predominant on the 13th and 31st floor	Friable
■ Steam/cond lines & fittings	Throughout, predominant in mech rooms	Friable
■ Steam risers	Perimeter columns	Friable
■ Domestic water line & fittings	Predominant in mech rooms, chases, restrooms	Friable
■ Chilled water lines & fittings	Throughout, predominant in hi-rise mech rooms	Friable
■ Waste line & fittings	Throughout and in chases	Friable
■ Air Handler & duct insulation	Predominant in boiler room & hi-rise mech rooms	Friable
■ Tanks & vessels	Predominant in boiler room	Friable
■ Interior of boilers	Assumed	Friable
■ Floor tiles & associated mastics	Varied throughout tenant space	Non-friable
■ Asbestos cement board	16 <sup>th</sup> floor mech room	Non-friable
■ Ceiling tile mastics (glue dots)	Varied throughout tenant space	Non-friable
■ Fire doors	Assumed	Non-friable
■ Caulkings/glazings/mastics	Assumed	Non-friable
■ Roofing materials	Assumed	Non-friable



## Asbestos Survey

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### Center Building

■ Duct tape	Predominant on the 13th & 14th floor	Friable
■ Duct tape	Perimeter chased columns	Friable
■ Steam/cond lines & fittings	Throughout, predominant in mech rooms	Friable
■ Chilled water lines & fittings	Throughout, predominant in mech rooms	Friable
■ Secondary water fittings	Assumed, predominant in perimeter columns	Friable
■ Domestic water fittings	Predominant in mech rooms, chases, restrooms	Friable
■ Waste line & fittings	Throughout and in `chases	Friable
■ AH equipment insulation	Predominant in mech rooms	Friable
■ Interior of boilers	Assumed	Friable
■ Floor tiles & associated mastics	Varied throughout tenant space	Non-friable
■ Asbestos cement board	Ground floor driveway, 14 <sup>th</sup> floor mech room	Non-friable
■ Fire doors	Assumed	Non-friable
■ Caulkings/glazings/mastics	Assumed	Non-friable
■ Roofing materials	Assumed	Non-friable

### East Building

■ Fireproofing above susp ceiling	Floors SB, B, 9, 10, 11	Friable
■ Fireproofing, perimeter columns	Floors B through 15	Friable
■ Fireproofing on deck	14th and 15th floor mech rooms	Friable
■ Fireproofing in elevator shafts	6 Elevator shafts	Friable
■ Waste fittings	Throughout and in chases	Friable
■ Steam/cond lines & fittings	Predominant in mech rooms	Friable
■ Domestic water lines & fittings	Predominant in mech rooms, chases, restrooms	Friable
■ Interior of boilers	Assumed	Friable
■ Floor tiles & associated mastics	Varied throughout tenant space	Non-friable
■ Sheet vinyl flooring	9 <sup>th</sup> floor	Non-friable
■ Asbestos cement board	East perimeter wall	Non-friable
■ Joint compound	9 <sup>th</sup> , 11 <sup>th</sup> , 12 <sup>th</sup> floor	Non-friable
■ Fire doors	Assumed	Non-friable
■ Caulkings/glazings/mastics	Assumed	Non-friable
■ Roofing materials	Assumed	Non-friable

Lesser quantities of ACM materials may be present but not listed above. A summary of identified ACM, location and approximate quantity is presented in Appendix A.

It should be noted that suspect, assumed and laboratory-identified ACM (such as piping) were assumed to be located within areas which could not reasonably be accessed nor observed, such as chased columns, in walls, above plaster ceilings, within utility chases and above operating equipment. In those instances, efforts were made to extrapolate quantities from blueprints and drawing furnished by the facility management and interviews with facility



## **Asbestos Survey**

First National Center ■ Oklahoma City, Oklahoma  
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personnel. The accuracy of the drawings is unknown and may not represent actual materials and/or quantities at the site. A summary of identified ACM, location and approximate quantity is presented in Appendix A. Laboratory analytical reports are included as Appendix C.

### **FRIABLE ACMs**

#### **Fireproofing, Duct Tape, Pipe Insulations, Pipe Fittings, AHU, Duct and Vessel Insulation**

The fireproofing, duct tape, pipe insulations, fittings, AHU, duct and vessel insulation are considered RACM and must be removed by a qualified asbestos abatement contractor prior to demolition of the structure in accordance with a project design prepared by an Oklahoma licensed Project Designer.

### **NON-FRIABLE ACMs**

#### **Floor Tile and Mastics**

Floor tiles and mastics (Category I non-friable materials) were identified and/or assumed at the subject site and observed in good condition. According to the EPA, non-friable floor coverings, tar-impregnated roofing felts, asphalt tiles, asphalts and mastics that are non-friable and will remain non-friable during proposed demolition methods are exempt from NESHAP requirements and need not be removed prior to demolition.

This exemption assumes the demolition of the building does not include deliberate burning or activities that powder or otherwise damage and render the materials friable. Additionally, the building debris need not be disposed of as asbestos-containing waste material provided such Category I ACM remains non-friable. However, Terracon recommends the landfill operator be notified that construction debris contains non-friable asbestos-containing materials.

Removal prior to renovation may be performed by an Oklahoma licensed asbestos abatement contractor, or general contractor personnel who have received a minimum 8-hour training on Class II asbestos-containing materials. The removal of the material should also be observed and performed under the guidance of a 'competent person' as defined by the Occupational Safety and Health Administration (OSHA) in 29 Code of Federal Regulations (CFR) 1926.1101 Asbestos.

#### **Non-friable Sheet Vinyl Flooring**

Non-friable asbestos-containing sheet-vinyl flooring was identified in the East building on the 9<sup>th</sup> floor. According to the ODOL, sheet-vinyl flooring products that are non-friable, in good condition and will remain non-friable during proposed demolition methods need not be removed prior to demolition. However, prior to renovation the material must be removed by a qualified asbestos abatement contractor prior to demolition of the structure in accordance with a project design prepared by an Oklahoma licensed Project Designer.



## **Asbestos Survey**

First National Center ■ Oklahoma City, Oklahoma

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### **Asbestos Cement Board**

The asbestos cement board is considered a Category II non-friable ACM; however, the material is considered likely to become friable during the demolition operation and must be removed prior to demolition of the structure. Removal may be performed by an Oklahoma licensed asbestos abatement contractor, or general contractor personnel who have received a minimum 8-hour training on Class II asbestos-containing materials. The removal of the material should also be observed and performed under the guidance of a 'competent person' as defined by the Occupational Safety and Health Administration (OSHA) in 29 Code of Federal Regulations (CFR) 1926.1101 Asbestos.

### **Joint Compound**

The asbestos-containing joint compound is a Category II non-friable ACM in its present state; however, has a high probability of becoming friable during demolition. Therefore, according to Oklahoma Department of Labor (ODOL) regulations, the joint compound must be removed by a qualified asbestos abatement contractor prior to demolition of the structure in accordance with a project design prepared by an Oklahoma licensed Project Designer.

### **Boilers**

Prior to removal or demolition, the interior of the equipment should be inspected. Further, removal and dismantling of the equipment should be observed and performed under the guidance of a 'competent person' as defined by the Occupational Safety and Health Administration (OSHA) in 29 Code of Federal Regulations (CFR) 1926.1101 Asbestos.

### **Fire Doors**

Fire doors were assumed to contain asbestos. Removal prior to renovation may be performed by an Oklahoma licensed asbestos abatement contractor, or general contractor personnel who have received a minimum 8-hour training on Class II asbestos-containing materials. The removal of the material should also be observed and performed under the guidance of a 'competent person' as defined by the Occupational Safety and Health Administration (OSHA) in 29 Code of Federal Regulations (CFR) 1926.1101 Asbestos.

### **Asphaltic Roofing Materials**

Asbestos-containing asphaltic roofing materials (Category I non-friable materials) were assumed at the subject site. According to the Environmental Protection Agency (EPA), tar-impregnated roofing felts, asphalt tiles, asphalts and mastics that are non-friable and will remain non-friable during proposed demolition methods are exempt from requirements under the National Emission Standard for Hazardous Air Pollutants (NESHAP) and need not be removed prior to demolition. As with floor tile and mastics, this exemption assumes the demolition of the roof system does not include deliberate burning or activities that powder or otherwise damage and render the materials friable. Additionally, the debris need not be disposed of as asbestos-containing waste material provided such Category I ACM remains non-friable. However,

## **Asbestos Survey**

First National Center ■ Oklahoma City, Oklahoma

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Terracon recommends the landfill operator be notified that construction debris contains non-friable asbestos-containing materials.

## **6.0 LIMITATIONS/GENERAL COMMENTS**

Terracon did not perform sampling which required demolition or destructive activities such as knocking holes in walls, dismantling of equipment or removal of protective coverings. Reasonable efforts to access suspect materials within known areas of restricted access (e.g., crawl spaces) were made; however, confined spaces or areas which may pose a health or safety risk to Terracon personnel were not sampled. Sampling did not include suspect materials which could not be safely reached with available ladders/man-lifts.

This asbestos survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the building. The information contained in this report is relevant to the date on which this survey was performed, and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by Pepper Development Services for specific application to their project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.



**APPENDIX A-East Building  
First National Center  
120 North Robinson Avenue, Oklahoma City Oklahoma**

HA #.	SAMPLE #	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	SAMPLE LOCATIONS	LAB RESULTS
11	E 11A	12"x12" White/ grey speckle floor tile with and black mastic	5,600 SF	8 <sup>th</sup> floor, west quadrant, east side, by the door	Yellow mastic-not detected
					Floor tile- not detected
					Black mastic-5% Chrysotile
	E 11B		600 SF	11 <sup>th</sup> floor, southwest quadrant, southwest corner	Yellow mastic-not detected
					Floor tile- not detected
					Black mastic-6% Chrysotile
	150 SF	9 <sup>th</sup> floor	Assumed -Rep sample		
12	E 12A	Black mastic	5,400 SF	8th floor, east quadrant, west side	6% Chrysotile
14	E 14A	12"x12" Grey/ brown streaks floor tile with beige mastic, sheet flooring below		9 <sup>h</sup> floor, north quadrant, south side	Floor tile-not detected
				Yellow mastic- not detected	
			300 SF	9th floor, north quadrant, south side	Sheet vinyl- 25% Chrysotile
			900 SF	9th floor, north quadrant, south side	
18	E 18A	12"x12" Grey floor tile with beige streaks	200 SF	11th floor, center rooms, north side	Floor tile-6% Chrysotile
					Black mastic-3% Chrysotile
19	E 19A	12"x12" Grey/brown swirl floor tile with yellow mastic	350 SF	11th floor, center rooms, southeast side	Floor tile-3% Chrysotile
					Yellow mastic-not detected
20	E 20A	12"x12" Beige/brown streaks floor tile with black mastic	850 SF	12th floor, east quadrant, south side	Floor tile-3% Chrysotile
					Black mastic-4% Chrysotile
23	E 23A	Waste line fittings	25 EA	14th floor, east quadrant, center	<1% Chrysotile 2% Amosite

## APPENDIX A-East Building

HA #.	SAMPLE #	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	SAMPLE LOCATIONS	LAB RESULTS
27	E 27A	Fireproofing-perimeter columns	3,000 SF	12th floor, north quadrant, southeast side	6% Chrysotile <1% Actinolite/Tremolite
	E 27B		3,000 SF	11th floor, north quadrant, southeast side	PS
	E 27C		3,000 SF	10th floor, north quadrant, east side	PS
	E 27D		3,000 SF	8th floor, north quadrant, northeast wall	PS
	E 27E		3,000 SF	9th floor, north quadrant, south side	PS
			3,000 SF	14th floor	Assumed -Rep sample
			3,000 SF	13th floor	Assumed -Rep sample
			3,000 SF	7th floor	Assumed -Rep sample
			3,000 SF	6th floor	Assumed -Rep sample
			3,000 SF	5th floor	Assumed -Rep sample
			3,000 SF	4th floor	Assumed -Rep sample
			3,000 SF	3rd floor	Assumed -Rep sample
			3,000 SF	2nd floor	Assumed -Rep sample
			3,000 SF	1st floor	Assumed -Rep sample
			3,000 SF	Basement	Assumed -Rep sample
31	E 31A	Fireproofing- ceiling (old work)	72,000 SF	11th floor, north quadrant, south corner	6% Chrysotile
	E 31B			11th floor, north quadrant, northwest side	PS
	E 31C			11th floor, north quadrant, east side	PS
	E 31D			11th floor, east quadrant, north center	PS
	E 31E			11th floor, east quadrant, north center	PS
	E 31F			11th floor, east quadrant, south side	PS
	E 31G			11th floor, south quadrant, south side	PS
33	E 33A	Fireproofing-ceiling (old work)	72,000 SF	10th floor	6% Chry <1% Actinolite/Tremolite
35		Asb cement board (Transite®)	3900 SF	Perimeter walls	Assumed

## APPENDIX A-East Building

HA #.	SAMPLE #	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	SAMPLE LOCATIONS	LAB RESULTS
39	E 39A	Fireproofing ceiling (old work)	70,700 SF	Basement	6% Chrysotile
	E 39B			Basement	PS
	E 39C			Basement	PS
	E 39D			Basement	PS
	E 39E			Basement	PS
	E 39F			Basement	PS
	E 39G			Basement	PS
40	E 40A	2'x2' Ceiling tile vertical worm with pink back	Unknown	10 <sup>th</sup> floor	Not detected
	E 40B			10 <sup>th</sup> floor	2% Chrysotile
41	E 41A	Steam line	50 LF	14th floor, boiler room east boiler	75% Chrysotile
45		Unknown use fitting	50 EA	14th floor, ceiling boiler room	Assumed
46	E 46A	Fireproofing ceiling (old work)	11,900 SF	14th floor, boiler room	7% Chrysotile <1% Actinolite/Tremolite
	E 46B			14th floor, boiler room	PS
	E 46C			14th floor, boiler room	PS
	E 46D			14th floor, boiler room	PS
	E 46E			14th floor, boiler room	PS
	E 46F			14th floor, boiler room	PS
	E 46G			14th floor, boiler room	PS
48	E 48A	Hot water line (block)	50 LF	14th floor, near heat exchange	30% Amosite
49	E 49A	Victaulic fitting	100 LF	14th floor, boiler room- above north chiller	Assumed
51	E 51A	Chiller pump house Insulation	5 SF	Chiller pump housing	Tan insulation-not detected Lt. grey insulation-80% Chrysotile Green insulation-not detected
52	E 52A	Steam line/ fitting	200 LF	15th floor	15% Amosite
88	E 88A	Joint compound- old work	500 SF	12th floor circular stair (old)	1.5% Chrysotile (PC)
	E 88B			11th floor column (old)	PS
	E 88C			9th floor	PS
		Steam line	300 LF	14th floor mechanical room	Assumed
	ref 31	Fireproofing ceiling (old work)	72,000 SF	8th floor	Assumed -Rep sample
	ref 33				
	ref 39				
	ref 46				



## APPENDIX A-East Building

HA #.	SAMPLE #	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	SAMPLE LOCATIONS	LAB RESULTS
	ref 31	Fireproofing ceiling (old work)	72,000 SF	9th floor	Assumed -Rep sample
	ref 33				
	ref 39				
	ref 46				
	ref 31	Fireproofing ceiling (old work)	72,000 SF	15th floor	Assumed -Rep sample
	ref 33				
	ref 39				
	ref 46				
	ref 31	Fireproofing ceiling (old work)	68,000 SF	Sub-basement	Assumed -Rep sample
	ref 33				
	ref 39				
	ref 46				
	ref 27	Fireproofing (old work)	18,000 SF	Six elevator shafts	Assumed -Rep sample
	ref 41	ST/CO/DW Piping	650 LF	Sub-basement	Assumed -Rep sample
	ref 48	ST/CO/DW Piping	650 LF	Basement	Assumed -Rep sample
		ST/CO/DW Piping	650 LF	1st floor	Assumed -Rep sample
		ST/CO/DW Piping	650 LF	2nd floor	Assumed -Rep sample
		ST/CO/DW Piping	450 LF	4th floor	Assumed -Rep sample
		ST/CO/DW Piping	450 LF	5th floor	Assumed -Rep sample
		ST/CO/DW Piping	450 LF	6th floor	Assumed -Rep sample
		ST/CO/DW Piping	450 LF	7th floor	Assumed -Rep sample
		ST/CO/DW Piping	450 LF	9th floor	Assumed -Rep sample
		ST/CO/DW Piping	450 LF	10h floor	Assumed -Rep sample
		ST/CO/DW Piping	450 LF	11th floor	Assumed -Rep sample
		ST/CO/DW Piping	450 LF	12th floor	Assumed -Rep sample
		ST/CO/DW Piping	800 LF	13th floor	Assumed -Rep sample
		ST/CO/DW Piping	2,500 LF	14th floor	Assumed -Rep sample
		ST/CO/DW Piping	1250 LF	Penthouse	Assumed -Rep sample
		Interior of boilers	-	-	Assumed -No access
		Fire doors	-	-	Assumed
		Caulkings/glazings/mastics			Assumed
		Roofing materials	-	-	Assumed

**APPENDIX A- Central Building  
First National Center  
120 North Robinson Avenue, Oklahoma City Oklahoma**

HA #.	SAMPLE #	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	SAMPLE LOCATIONS	LAB RESULTS
17	C 17A	Black mastic under carpet	1,300 SF	14 <sup>th</sup> floor, east quadrant, in hallway by the elevators	Black mastic- 6% Chrysotile
	C 17B		75 SF	3 <sup>rd</sup> Floor, west quadrant, room by the elevators	PS
18	C 18A	9"x9" Pink floor tile with black mastic	400 SF	14th floor, north quadrant, Northeast corner room	Floor tile- 4% Chrysotile Black mastic- 6% Chrysotile
21	C 21A	9"x9" Brown floor tile/beige streaks with black mastic and black vinyl sheeting	7,500 SF	13th floor, northeast quadrant, in large open area	Floor tile- 6% Chrysotile Black mastic- 5% Chrysotile
22	C 22A	9"x9" Brown swirl floor tile with yellow mastic	NA	12 <sup>th</sup> floor, southwest quadrant, in the hallway	Not detected
	C 22B			12 <sup>th</sup> floor, southwest quadrant, in the hallway	Not detected
23	C 23A	9"x9" Brown floor tile/large beige speckles and black mastic	2,200 SF	12th floor, northwest quadrant, in the hallway by open area	Tile-2% Chrysotile
					Mastic-2% Chrysotile
24	C 24A	12"x12" Grey floor tile/beige speckles and black mastic	6,000 SF	11th floor, north quadrant, open area, center	Floor tile- 6% Chrysotile
					Black mastic- 3% Chrysotile
26	C 26A	9"x9" Grey floor tile/black speckles and black mastic	400 SF	10th floor, north quadrant, center, by the hallway	Yellow mastic- Not detected
					Floor tile- 3% Chrysotile
26	C 26A	9"x9" Grey floor tile/black speckles and black mastic	400 SF	10th floor, north quadrant, center, by the hallway	Black mastic- 5% Chrysotile
					Yellow mastic- Not detected
26	C 26A	9"x9" Grey floor tile/black speckles and black mastic	400 SF	10th floor, north quadrant, center, by the hallway	Floor tile- 5% Chrysotile
					Black mastic- 4% Chrysotile

## APPENDIX A-Central Building

HA #.	SAMPLE #	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	SAMPLE LOCATIONS	LAB RESULTS
28	C 28A	9"x9" Slate floor tile with black mastic	50 SF	10th floor, southwest quadrant, in hallway next to bathroom	Yellow Mastic- Not detected
					Floor tile- 5% Chrysotile
					Black mastic- 5% Chrysotile
29	C 29A	12"x12" White floor tile/large grey & blue specks and black mastic	16,700 SF	9th floor, west quadrant, hallway by the bathrooms	Yellow Mastic- Not detected
					Floor tile- 6% Chrysotile
					Black mastic- 5% Chrysotile
30	C 30A	12"x12" Brown floor tile/dark grey streaks and black mastic	600 SF	7th floor, northwest quadrant, southwest corner in open area	Yellow Mastic- Not detected
					Floor tile- 6% Chrysotile
31	C 31A	Black mastic	50 SF	6th floor, southwest quadrant, in closet next to bathrooms	2% Chrysotile
32	C 32A	12"x12" Multi-color floor tile with black mastic	1,400 SF	6th floor, southwest quadrant, break room	Floor tile- Not detected
					Black mastic- 4% Chrysotile
33	C 33A	12"x12" Beige floor tile with brown streaks	200 SF	5th floor, southeast quadrant, by the double doors	Yellow mastic- Not detected
					Floor tile- 3% Chrysotile
34	C 34A	9"x9" White floor tile/brown specks and black mastic	8,600 SF	6th floor, north quadrant, by South wall	Yellow Mastic- Not detected
					Floor tile- 3% Chrysotile
					Black mastic- 3% Chrysotile
35	C 35A	Duct tape	3,300 SF	14th floor, south quadrant, maintenance chase	Duct tape- 75% Chrysotile
	C 35B			14th floor, southeast quadrant, corner room	PS
36	C 36A	Domestic water fittings	25 EA 150 LF	14th floor, southeast quadrant, maintenance chase	4% Chrysotile 30% Amosite
37	C 37A	Steam line (yellow)	250 LF	14th floor, south quadrant, pump room	5% Chrysotile 20% Amosite
38	C 38A	Chilled water line	400 LF	14th floor, south quadrant, pump room	Not detected
	C 38B			14th floor, south quadrant, pump room	80% Chrysotile
39	C 39A	Chilled water fitting	Included in quantity C-38	14th floor, south quadrant, pump room	Not detected

## APPENDIX A-Central Building

HA #.	SAMPLE #	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	SAMPLE LOCATIONS	LAB RESULTS
	C 39B			14th floor, south quadrant, pump room	80% Chrysotile
40	C 40A	Chilled water line (millboard)	Included in quantity C-38	14th floor, south quadrant, pump room	Light gray- 70% Chrysotile Tan/gray- <1% Chrysotile
43	C 43A	Chill water line (butt joints)	600 LF	14th floor, south stairwell	3% Chrysotile 30% Amosite
45	C 45A	Duct tape	600 SF	11th floor, west quadrant, air handler unit pipe chase	Duct tape- 75% Chrysotile
			6,000 SF	Risers-all floors	Insulation- Not detected
57	C 57A	Sewer line	50 lf	12th floor carpenter shop	10% Chrysotile
59	C 59A	Chilled water fitting	200 EA	5th floor mech. room	Not detected
	C 59B		50 EA	11th floor mech. room	4% Amosite
62	C 62A	Chilled water hangers	100 EA	5th floor mech. room	2 %Chrysotile 8% Amosite
63	C 63A	Steam line	200 LF	5th floor mech. room	<1% Chrysotile 15% Amosite 2% Crocidolite
65	C 65A	Chilled water fittings	200 SF	13- AHU room	15% Chrysotile 10% Amosite
66	C 66A	Sewer fittings-( from lines near ceiling)	50 EA	13th floor AHU room	8% Chrysotile 15% Amosite 3% Crocidolite
69	C 69A	Fan housing	100 SF	13th floor AHU room	<1% Chrysotile
70	C 70A	Domestic water fitting	25 EA	13th floor janitor closet across from AHU room	2% Chrysotile 15% Amosite 2% Crocidolite
71	C 71A	Chilled water exchanger	100 SF	14th floor mech. room	40% Chrysotile
		Roof drain line	500 SF	14th floor mech. room	Assumed
	ref 36	Bathroom chase fittings	250 EA		Assumed -Rep sample
	ref 70				
	ref 56	Sewer fittings	5000 EA		Assumed -Rep sample
	ref 66				
		Transite® peg board	-	14th floor mech. room bathroom	Assumed
		Asb cement board (Transite®)	800 SF	Ground floor driveway	Assumed
		Piping	1,600 LF	1st floor	Assumed
		Piping	1,600 LF	2nd floor	Assumed

## APPENDIX A-Central Building

HA #.	SAMPLE #	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	SAMPLE LOCATIONS	LAB RESULTS
		Piping	3,800 LF	3rd floor	Assumed
		Piping	3,100 LF	4th floor	Assumed
		Piping	3,600 LF	5th floor	Assumed
		Piping	1,800 LF	6th floor	Assumed
		Piping	1,500 LF	7th floor	Assumed
		Piping	1,400 LF	8th floor	Assumed
		Piping	1,400 LF	9th floor	Assumed
		Piping	1,400 LF	10th floor	Assumed
		Piping	1,400 LF	11th floor	Assumed
		Piping	1,400 LF	12th floor	Assumed
		Piping	1,400 LF	13th floor	Assumed
		Piping	2,700 LF	14th floor	Assumed
		Interior of boilers	-	-	Assumed -No access
		Fire doors	-	-	Assumed
		Caulkings/glazings/mastics			Assumed
		Roofing materials	-	-	Assumed

**APPENDIX A-West Building  
First National Center  
120 North Robinson Avenue, Oklahoma City Oklahoma**

HA #.	SAMPLE #	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	SAMPLE LOCATIONS	LAB RESULTS
01	W 01A	Boiler room ceiling	3,800 SF	Basement	15% Chrysotile
	W 01B			Basement	PS
	W 01C			Basement	PS
	W 01D			Basement	PS
	W 01E			Basement	PS
02	W 02A	Safe deposit area ceiling (acoustical)	4,100 SF (including center building)	Safe deposit area	4% Chrysotile
	W 02B			Safe deposit area	PS
	W 02C			Safe deposit area	PS
	W 02D			Safe deposit area	PS
	W 02E			Safe deposit area	PS
	W 02F			Safe deposit area	PS
	W 02G			Safe deposit area	PS
09	W 09A	Acoustical ceiling	50 SF	4 <sup>th</sup> floor (south quadrant)	4% Chrysotile
	W 09B			4 <sup>th</sup> floor (south quadrant)	PS
	W 09C			4 <sup>th</sup> floor (south quadrant)	PS



## APPENDIX A-West Building

HA #.	SAMPLE #	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	SAMPLE LOCATIONS	LAB RESULTS
11	W 11A	Glue dots	300 SF	3 <sup>rd</sup> floor	Not detected
	W 11B		3,600 SF	4 <sup>th</sup> floor	3% Chrysotile
	W 11C		3,300 SF	5 <sup>th</sup> floor	PS
	W 11D		3,600 SF	7 <sup>th</sup> floor	PS
	W 11E		4,600 SF	8 <sup>th</sup> floor	PS
	W 11F		1,800 SF	13 <sup>th</sup> floor	PS
			5,800 SF	2 <sup>nd</sup> floor	Assumed -Rep sample
			1,900 SF	12 <sup>th</sup> floor	Assumed -Rep sample
			700 SF	15 <sup>th</sup> floor	Assumed -Rep sample
			100 SF	16 <sup>th</sup> floor	Assumed -Rep sample
			2,100 SF	18 <sup>th</sup> floor	Assumed -Rep sample
			3,000 SF	19 <sup>th</sup> floor	Assumed -Rep sample
			2,500 SF	21 <sup>st</sup> floor	Assumed -Rep sample
			5,700 SF	25 <sup>th</sup> floor	Assumed -Rep sample
			1,200 SF	26 <sup>th</sup> floor	Assumed -Rep sample
			800 SF	29 <sup>th</sup> floor	Assumed -Rep sample
			3,700 SFf	30 <sup>th</sup> floor	Assumed -Rep sample
			8,000 SF	31 <sup>st</sup> floor	Assumed -Rep sample
			2,700 SF	32 <sup>nd</sup> floor	Assumed -Rep sample
18	W 18A	Duct tape	6,800 SF	13 <sup>th</sup> floor	60 % Chrysotile
			1,500 SF	31 <sup>st</sup> floor	
			2,500 SF	31 <sup>st</sup> attic	
20	W 20A	Steam/condensate/magnesia line	2,100 LF	Boiler room	10% Chrysotile
					5% Amosite
21	W 21A	12"x12" tan floor tile and mastic	5,700 SF	Room north of bank vault	Tile- 3#% Chrysotile
					Mastic- 4% Chrysotile
26	W 26A	Tar waste fitting	Included in estimates below	4 <sup>th</sup> floor	20% Chrysotile
27	W 27A	Domestic cold water line	Included in estimates below	4 <sup>th</sup> floor	70% Chrysotile



## APPENDIX A-West Building

HA #.	SAMPLE #	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	SAMPLE LOCATIONS	LAB RESULTS
35	W 35A	12"x12" grey floor tile with mastic	700 SF	14 <sup>th</sup> floor room 1408	Tile- 4% Chrysotile
					Mastic- 2% Chrysotile
38	W 38A	12"x12" White with brown streaks floor tile and mastic	4,000 SF	15 <sup>th</sup> floor	Tile- Not detected
					Mastic- 2% Chrysotile
39	W 39A	Transite®	150 SF	16 <sup>th</sup> floor back of mechanical room doors	40% Chrysotile
40	W 40A	Insulation on drinking water tank	75 SF	17 <sup>th</sup> floor mechanical room	80% Chrysotile
48	W 48A	12x12 white w/grey tile & mastic	100 SF	23 <sup>rd</sup> floor	Tile- Not detected
					Mastic- 2% Chrysotile
64	W 64A	Acoustical ceiling	9,600 SF	31 <sup>st</sup> floor	12% Chrysotile
67	W 67A	Acoustical ceiling above tile	4,500 SF	32 <sup>nd</sup> floor	20% Chrysotile
68	W 68A	Chilled water line	125 LF	21 <sup>st</sup> floor	12% Chrysotile
			125 LF	14	Assumed
			125 LF	15	Assumed
			125 LF	16	Assumed
			125 LF	17	Assumed
			125 LF	18	Assumed
			125 LF	19	Assumed
			125 LF	20	Assumed
			125 LF	22	Assumed
			125 LF	23	Assumed
			125 LF	24	Assumed
			125 LF	25	Assumed
			125 LF	26	Assumed
			125 LF	27	Assumed

## APPENDIX A-West Building

HA #.	SAMPLE #	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	SAMPLE LOCATIONS	LAB RESULTS
69	W 69A	AHU duct insulation	200 SF	21 <sup>st</sup> floor	20% Chrysotile
			200 SF	14	Assumed -Rep sample
			200 SF	15	Assumed -Rep sample
			200 SF	16	Assumed -Rep sample
			200 SF	17	Assumed -Rep sample
			200 SF	18	Assumed -Rep sample
			200 SF	19	Assumed -Rep sample
			200 SF	20	Assumed -Rep sample
			200 SF	22	Assumed -Rep sample
			200 SF	23	Assumed -Rep sample
			200 SF	24	Assumed -Rep sample
			200 SF	25	Assumed -Rep sample
			200 SF	26	Assumed -Rep sample
			200 SF	27	Assumed -Rep sample
			200 SF	31 <sup>st</sup> floor attic	Assumed -Rep sample
70	W 70A	HW tanks (3)	600 SF	Boiler room	50 %Chrysotile
71	W 71A	DA Tank	175 SF	Boiler room	30% Chrysotile
72	W 72A	Sand filler tank	150 SF	Boiler room	20% Chrysotile
73	W 73A	Pump tank	175 SF	Boiler room	55% Chrysotile
74	W 74A	Chilled water line	570 LF	14 <sup>th</sup> floor pump room	Not Detected
	W 74B			14 <sup>th</sup> floor pump room	3% Chrysotile
	W 74C			14 <sup>th</sup> floor pump room	PS
75	W 75A	Steam line	350 LF	Pump room 14	20 % Chrysotile
	W 75B			Pump room 14	15% Amosite
76	W 76A	Gasket	Varied	Pump room 14	50% Chrysotile
79	W 79A	Chillers	200 SF	Pump room 14 <sup>th</sup> floor	20% Chrysotile
	ref 69	Boiler duct	7,400 SF	Basement boiler room	Assumed -Rep sample
	ref 21	Floor tile and mastic	7,700 SF	2 <sup>nd</sup> floor	Assumed -Rep sample
	ref 35				Assumed -Rep sample
	ref 38	Black mastic	2,000 SF		Assumed -Rep sample
	ref 41				

## APPENDIX A-West Building

HA #.	SAMPLE #	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	SAMPLE LOCATIONS	LAB RESULTS
		Floor tile and mastic	5,000 SF	3 <sup>rd</sup> floor	Assumed -Rep sample
		Floor tile and mastic	6,500 SF	4 <sup>th</sup> floor	Assumed -Rep sample
		Black mastic	15,700 SF		Assumed -Rep sample
		Floor tile and mastic	3,900 SF	5 <sup>th</sup> floor	Assumed -Rep sample
		Black mastic	8,500 SF		Assumed -Rep sample
		Floor tile and mastic	7,800 SF	7 <sup>th</sup> floor	Assumed -Rep sample
		Black mastic	9,000 SF		Assumed -Rep sample
	ref 21	Floor tile and mastic	4,900 SF	8 <sup>th</sup> floor	Assumed -Rep sample
	ref 35				
	ref 38	Floor tile and mastic	4,300 SF	9 <sup>th</sup> floor	Assumed -Rep sample
	ref 41				Assumed -Rep sample
		Black mastic	3,800 SF	11 <sup>th</sup> floor	Assumed -Rep sample
		Floor tile and mastic	3,100 SF		Assumed -Rep sample
		Black mastic	7,000 SF	12 <sup>th</sup> floor	Assumed -Rep sample
		Floor tile and mastic	6,300 SF		Assumed -Rep sample
		Black mastic	8,200 SF	13 <sup>th</sup> floor	Assumed -Rep sample
		Floor tile and mastic	7,900 SF		Assumed -Rep sample
		Black mastic	6,450 SF	14 <sup>th</sup> floor	Assumed -Rep sample
		Floor tile and mastic	700 SF		Assumed -Rep sample
		Black mastic	400 SF	15 <sup>th</sup> floor	Assumed -Rep sample
		Floor tile and mastic	4,000 SF		Assumed -Rep sample
		Black mastic	3,200 SF		Assumed -Rep sample

## APPENDIX A-West Building

HA #.	SAMPLE #	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	SAMPLE LOCATIONS	LAB RESULTS
		Floor tile and mastic	300 SF	16 <sup>th</sup> floor	Assumed -Rep sample
		Black mastic	6,800 SF		Assumed -Rep sample
		Floor tile and mastic	2,700 SF	18 <sup>th</sup> floor	Assumed -Rep sample
		Black mastic	4,500 SF		Assumed -Rep sample
		Black mastic	8,800 SF	19 <sup>th</sup> floor	Assumed -Rep sample
		Floor tile and mastic	1,900 SF	20 <sup>th</sup> floor	Assumed -Rep sample
		Black mastic	3,400 SF		Assumed -Rep sample
		Floor tile and mastic	3,100 SF	25 <sup>th</sup> floor	Assumed -Rep sample
		Black mastic	6,500 SF		Assumed -Rep sample
		Black mastic	600 SF	27 <sup>th</sup> floor	Assumed -Rep sample
		Black mastic	2,900 SF	28 <sup>th</sup> floor	Assumed -Rep sample
	ref 21	Floor tile and mastic	900 SF	29 <sup>th</sup> floor	Assumed -Rep sample
	ref 35				
	ref 38				
	ref 41	Black mastic per floor	100 SF	30 <sup>th</sup> floor	Assumed -Rep sample
		Floor tile and mastic	2,400 SF	31 <sup>st</sup> floor	Assumed -Rep sample
		Black mastic	500 SF		Assumed -Rep sample
		Floor tile and mastic	2,500 SF	32 <sup>nd</sup> floor	Assumed -Rep sample
	ref 20	Piping	3,800 LF	Basement	Assumed -Rep sample
	ref 26	Piping	3,500 LF	1 <sup>st</sup> floor	Assumed -Rep sample
	ref 27	Piping	2,500 LF	2 <sup>nd</sup> floor	Assumed -Rep sample
	ref 68	Piping	3,500 LF	3 <sup>rd</sup> floor	Assumed -Rep sample
		Piping	8,400 LF	4 <sup>th</sup> floor	Assumed -Rep sample
		Piping	5,600 LF	5 <sup>th</sup> floor	Assumed -Rep sample
		Piping	5,600 LF	6 <sup>th</sup> floor	Assumed -Rep sample
		Piping	5,600 LF	7 <sup>th</sup> floor	Assumed -Rep sample
		Piping	5,600 LF	8 <sup>th</sup> floor	Assumed -Rep sample
		Piping	5,600 LF	9 <sup>th</sup> floor	Assumed -Rep sample
		Piping	5,600 LF	10 <sup>th</sup> floor	Assumed -Rep sample

## APPENDIX A-West Building

HA #.	SAMPLE #	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	SAMPLE LOCATIONS	LAB RESULTS
		Piping	5,600 LF	11 <sup>th</sup> floor	Assumed -Rep sample
		Piping	5,600 LF	12 <sup>th</sup> floor	Assumed -Rep sample
		Piping	7,000 LF	13 <sup>th</sup> floor	Assumed -Rep sample
		Piping	750 LF	14 <sup>th</sup> floor	Assumed -Rep sample
		Piping	750 LF	15 <sup>th</sup> floor	Assumed -Rep sample
		Piping	750 LF	16 <sup>th</sup> floor	Assumed -Rep sample
		Piping	750 LF	17 <sup>th</sup> floor	Assumed -Rep sample
		Piping	750 LF	18 <sup>th</sup> floor	Assumed -Rep sample
		Piping	750 LF	19 <sup>th</sup> floor	Assumed -Rep sample
		Piping	750 LF	20 <sup>th</sup> floor	Assumed -Rep sample
		Piping	750 LF	21 <sup>st</sup> floor	Assumed -Rep sample
		Piping	750 LF	22 <sup>nd</sup> floor	Assumed -Rep sample
		Piping	750 LF	23 <sup>rd</sup> floor	Assumed -Rep sample
		Piping	750 LF	24 <sup>th</sup> floor	Assumed -Rep sample
	ref 20	Piping	750 LF	25 <sup>th</sup> floor	Assumed -Rep sample
	ref 26	Piping	750 LF	26 <sup>th</sup> floor	Assumed -Rep sample
	ref 27	Piping	750 LF	27 <sup>th</sup> floor	Assumed -Rep sample
	ref 68	Piping	750 LF	28 <sup>th</sup> floor	Assumed -Rep sample
		Piping	900 LF	29 <sup>th</sup> floor	Assumed -Rep sample
		Piping	900 LF	30 <sup>th</sup> floor	Assumed -Rep sample
		Piping	900 LF	31 <sup>st</sup> floor	Assumed -Rep sample
		Piping	400 LF	32 <sup>nd</sup> floor	Assumed -Rep sample
		Piping	50 LF	33 <sup>rd</sup> floor	Assumed -Rep sample
	ref 40	Drinking water tank	100 SF	33 <sup>rd</sup> floor	Assumed -Rep sample
		Interior of boilers			Assumed -No access
		Fire doors			Assumed
		Caulkings/glazings/mastics	-	-	Assumed
		Roofing materials	-	-	Assumed