



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71972110
Analysis ID: 71972110_PLM
Date Received: 8/10/2021
Date Reported: 8/17/2021

Project: PP0E00521 - Basement 8/6/21

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
G-3-7	Gaskets from process systems	None Detected	70% Cellulose	30% Other	Gray Fibrous Homogeneous
71972110PLM_7					Ashed
G-3-8	Gaskets from process systems	50% Chrysotile		50% Other	Black Fibrous Homogeneous
71972110PLM_8					Ashed
G-3-9	Gaskets from process systems	Not Analyzed			
71972110PLM_9					
FT-4-10 - A	12x12 Cream streaked FT (Rms 12-15, Sp1-2 layers in all but rm 13)	3% Chrysotile		97% Other	Cream Non Fibrous Homogeneous
71972110PLM_10	tile				Dissolved
FT-4-10 - B	12x12 Cream streaked FT (Rms 12-15, Sp1-2 layers in all but rm 13)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71972110PLM_75	mastic				Dissolved
FT-4-11 - A	12x12 Cream streaked FT (Rms 12-15, Sp1-2 layers in all but rm 13)	3% Chrysotile		97% Other	Cream Non Fibrous Homogeneous
71972110PLM_11	tile				Dissolved
FT-4-11 - B	12x12 Cream streaked FT (Rms 12-15, Sp1-2 layers in all but rm 13)	5% Chrysotile		95% Other	Black, Yellow Non Fibrous Homogeneous
71972110PLM_76	mastic				Dissolved
FT-4-12	12x12 Cream streaked FT (Rms 12-15, Sp1-2 layers in all but rm 13)	Not Analyzed			
71972110PLM_12					

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Charmel Dozier (99)

Analyst

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FT-5-13 - A	12x12 Mustard yellow FT (Rm13-Sp1) (Bottom layer)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71972110PLM_13	tile				Dissolved
FT-5-13 - B	12x12 Mustard yellow FT (Rm13-Sp1) (Bottom layer)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71972110PLM_77	mastic				Dissolved
FT-5-14 - A	12x12 Mustard yellow FT (Rm13-Sp1) (Bottom layer)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71972110PLM_14	tile				Dissolved
FT-5-14 - B	12x12 Mustard yellow FT (Rm13-Sp1) (Bottom layer)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71972110PLM_78	mastic				Dissolved
FT-5-15	12x12 Mustard yellow FT (Rm13-Sp1) (Bottom layer)	Not Analyzed			
71972110PLM_15	TEM				
BBI-6-16	Pink black batt insulation (Sp1 -Rms 14&15, Sp2-Rm 13)	None Detected	65% Cellulose	35% Other	Black Fibrous Homogeneous
71972110PLM_16					Ashed
BBI-6-17	Pink black batt insulation (Sp1 -Rms 14&15, Sp2-Rm 13)	None Detected	65% Cellulose	35% Other	Black Fibrous Homogeneous
71972110PLM_17					Ashed
BBI-6-18	Pink black batt insulation (Sp1 -Rms 14&15, Sp2-Rm 13)	Not Analyzed			
71972110PLM_18	TEM				

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WG-7-19	Window glaze (Sp1-Rm12)	None Detected		100% Other	White Non Fibrous Homogeneous
71972110PLM_19					Dissolved
WG-7-20	Window glaze (Sp1-Rm12)	None Detected		100% Other	White Non Fibrous Homogeneous
71972110PLM_20					Dissolved
WG-7-21	Window glaze (Sp1-Rm12)	Not Analyzed			
71972110PLM_21	TEM				
CT-8-22	2'x2' Smooth dense CT (Sp1, Rm8)	None Detected	15% Cellulose	85% Other	White, Tan Fibrous Homogeneous
71972110PLM_22					Crushed
CT-8-23	2'x2' Smooth dense CT (Sp1, Rm8)	None Detected	15% Cellulose	85% Other	White, Tan Fibrous Homogeneous
71972110PLM_23					Crushed
CT-8-24	2'x2' Smooth dense CT (Sp1, Rm8)	None Detected	15% Cellulose	85% Other	White, Tan Fibrous Homogeneous
71972110PLM_24					Crushed
M-9-25 - A	Behind ceramic wall tiles (Sp1 -Rm8) only bottom 3' of walls surfacing & mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71972110PLM_25	mastic				Dissolved
M-9-25 - B	Behind ceramic wall tiles (Sp1 -Rm8) only bottom 3' of walls surfacing & mastic	None Detected	3% Fiber Glass	97% Other	Gray Non Fibrous Homogeneous
71972110PLM_79	surfacing				Crushed

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M-9-26 - A	Behind ceramic wall tiles (Sp1 -Rm8) only bottom 3' of walls surfacing & mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71972110PLM_26	mastic				Dissolved
M-9-26 - B	Behind ceramic wall tiles (Sp1 -Rm8) only bottom 3' of walls surfacing & mastic	None Detected	3% Fiber Glass	97% Other	Gray Non Fibrous Homogeneous
71972110PLM_80	surfacing				Crushed
M-9-27 - A	Behind ceramic wall tiles (Sp1 -Rm8) only bottom 3' of walls surfacing & mastic	Not Analyzed			
71972110PLM_27	mastic-TEM				
M-9-27 - B	Behind ceramic wall tiles (Sp1 -Rm8) only bottom 3' of walls surfacing & mastic	None Detected	3% Fiber Glass	97% Other	Gray Non Fibrous Homogeneous
71972110PLM_81	surfacing				Crushed
CT-10-28	2'x4' Wormhole CT (Sp1-Rm9)	None Detected	35% Cellulose 35% Mineral Wool	30% Other	Tan Fibrous Homogeneous
71972110PLM_28					Teased
CT-10-29	2'x4' Wormhole CT (Sp1-Rm9)	None Detected	35% Cellulose 35% Mineral Wool	30% Other	Tan Fibrous Homogeneous
71972110PLM_29					Teased
CT-10-30	2'x4' Wormhole CT (Sp1-Rm9)	None Detected	35% Cellulose 35% Mineral Wool	30% Other	Tan Fibrous Homogeneous
71972110PLM_30					Teased
FT-11-31 - A	12x12 Red FT (Sp1-Rm9 bottom layer)	3% Chrysotile		97% Other	Red Non Fibrous Homogeneous
71972110PLM_31	tile				Dissolved

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FT-11-31 - B	12x12 Red FT (Sp1-Rm9 bottom layer)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71972110PLM_82	mastic				Dissolved
FT-11-32 - A	12x12 Red FT (Sp1-Rm9 bottom layer)	3% Chrysotile		97% Other	Red Non Fibrous Homogeneous
71972110PLM_32	tile				Dissolved
FT-11-32 - B	12x12 Red FT (Sp1-Rm9 bottom layer)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71972110PLM_83	mastic				Dissolved
FT-11-33	12x12 Red FT (Sp1-Rm9 bottom layer)	Not Analyzed			
71972110PLM_33	TEM				
DW-12-34	Drywall (Sp1,Rm8)	None Detected	10% Cellulose	90% Other	White, Tan Fibrous Homogeneous
71972110PLM_34					Crushed
DW-12-35	Drywall (Sp1,Rm8)	None Detected	10% Cellulose	90% Other	White, Tan Fibrous Homogeneous
71972110PLM_35					Crushed
DW-12-36	Drywall (Sp1,Rm8)	None Detected	10% Cellulose	90% Other	White, Tan Fibrous Homogeneous
71972110PLM_36					Crushed
FT-13-37 - A	9x9 Black FT (Sp2,Rm3 & part of rm 15)	5% Chrysotile		95% Other	Black Non Fibrous Homogeneous
71972110PLM_37	tile				Dissolved

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FT-13-37 - B	9x9 Black FT (Sp2,Rm3 & part of rm 15)	5% Chrysotile		95% Other	Black Non Fibrous Homogeneous
71972110PLM_84	mastic				Dissolved
FT-13-38 - A	9x9 Black FT (Sp2,Rm3 & part of rm 15)	5% Chrysotile		95% Other	Black Non Fibrous Homogeneous
71972110PLM_38	tile				Dissolved
FT-13-38 - B	9x9 Black FT (Sp2,Rm3 & part of rm 15)	5% Chrysotile		95% Other	Black Non Fibrous Homogeneous
71972110PLM_85	mastic				Dissolved
FT-13-39	9x9 Black FT (Sp2,Rm3 & part of rm 15)	Not Analyzed			
71972110PLM_39					
VF-14-40 - A	Faux brick vinyl flooring (Sp2, Rm5)	5% Chrysotile		95% Other	Red Non Fibrous Homogeneous
71972110PLM_40	tile				Dissolved
VF-14-40 - B	Faux brick vinyl flooring (Sp2, Rm5)	None Detected		100% Other	Black Non Fibrous Homogeneous
71972110PLM_86	mastic				Dissolved
VF-14-41 - A	Faux brick vinyl flooring (Sp2, Rm5)	5% Chrysotile		95% Other	Red Non Fibrous Homogeneous
71972110PLM_41	tile				Dissolved
VF-14-41 - B	Faux brick vinyl flooring (Sp2, Rm5)	3% Chrysotile		97% Other	Black Non Fibrous Homogeneous
71972110PLM_87	mastic				Dissolved

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VF-14-42	Faux brick vinyl flooring (Sp2, Rm5)	Not Analyzed			
71972110PLM_42					
VF-15-43	Faux terazzo vinyl flooring (Sp2, Rm1)	35% Chrysotile		65% Other	Beige Fibrous Homogeneous
71972110PLM_43					Teased, Dissolved
VF-15-44	Faux terazzo vinyl flooring (Sp2, Rm1)	35% Chrysotile		65% Other	Beige Fibrous Homogeneous
71972110PLM_44					Teased, Dissolved
VF-15-45	Faux terazzo vinyl flooring (Sp2, Rm1)	Not Analyzed			
71972110PLM_45					
TB-16-46 - A	4" Brown toeboard (Sp2,Rm1)	None Detected		100% Other	Brown Non Fibrous Homogeneous
71972110PLM_46	toeboard				Dissolved
TB-16-46 - B	4" Brown toeboard (Sp2,Rm1)	None Detected		100% Other	Brown Non Fibrous Homogeneous
71972110PLM_88	mastic				Dissolved
TB-16-47 - A	4" Brown toeboard (Sp2,Rm1)	None Detected		100% Other	Brown Non Fibrous Homogeneous
71972110PLM_47	toeboard				Dissolved
TB-16-47 - B	4" Brown toeboard (Sp2,Rm1)	None Detected		100% Other	Brown Non Fibrous Homogeneous
71972110PLM_89	mastic				Dissolved

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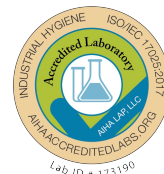
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TB-16-48	4" Brown toeboard (Sp2,Rm1)	Not Analyzed			
71972110PLM_48	TEM				
DW-17-49	Canvas wrap & TSI on HVAC ducts (Sp2-Rms 1,3,4,6,8,9,10,14)	45% Chrysotile	15% Cellulose	40% Other	Gray, White Fibrous Homogeneous
71972110PLM_49	unable to separate wrap				Teased
DW-17-50	Canvas wrap & TSI on HVAC ducts (Sp2-Rms 1,3,4,6,8,9,10,14)	45% Chrysotile	15% Cellulose	40% Other	Gray, White Fibrous Homogeneous
71972110PLM_50	unable to separate wrap				Teased
DW-17-51	Canvas wrap & TSI on HVAC ducts (Sp2-Rms 1,3,4,6,8,9,10,14)	45% Chrysotile	15% Cellulose	40% Other	Gray, White Fibrous Homogeneous
71972110PLM_51	unable to separate wrap				Teased
TSI-18-52 - A	Thermal system insulation, med dia pipe, hard joints	55% Chrysotile	10% Cellulose	35% Other	Gray Fibrous Homogeneous
71972110PLM_52	insulation 1-unable to separate wrap				Teased
TSI-18-52 - B	Thermal system insulation, med dia pipe, hard joints	15% Amosite 5% Chrysotile		80% Other	White Fibrous Homogeneous
71972110PLM_90	insulation 2				Teased
TSI-18-53 - A	Thermal system insulation, med dia pipe, hard joints	55% Chrysotile	10% Cellulose	35% Other	Gray Fibrous Homogeneous
71972110PLM_53	insulation 1-unable to separate wrap				Teased
TSI-18-53 - B	Thermal system insulation, med dia pipe, hard joints	15% Amosite 5% Chrysotile		80% Other	White Fibrous Homogeneous
71972110PLM_91	insulation 2				Teased

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TSI-18-54 - A	Thermal system insulation, med dia pipe, hard joints	None Detected	25% Fiber Glass	75% Other	White Fibrous Homogeneous
71972110PLM_54	wrap				Dissolved
TSI-18-54 - B	Thermal system insulation, med dia pipe, hard joints	None Detected		100% Other	Tan Non Fibrous Homogeneous
71972110PLM_92	insulation 1				Crushed
TSI-18-54 - C	Thermal system insulation, med dia pipe, hard joints	None Detected	20% Mineral Wool	80% Other	Gray Fibrous Homogeneous
71972110PLM_93	insulation 2				Teased
TSI-19-55 - A	Thermal system insulation, small dia pipe, hard joints	55% Chrysotile	10% Cellulose	35% Other	Gray Fibrous Homogeneous
71972110PLM_55	insulation 1-unable to separate wrap				Teased
TSI-19-55 - B	Thermal system insulation, small dia pipe, hard joints	10% Chrysotile	65% Mineral Wool	25% Other	Gray Fibrous Homogeneous
71972110PLM_94	insulation 2				Teased
TSI-19-56 - A	Thermal system insulation, small dia pipe, hard joints	10% Chrysotile	65% Mineral Wool	25% Other	Gray Fibrous Homogeneous
71972110PLM_56	insulation 1-unable to separate wrap				Teased
TSI-19-56 - B	Thermal system insulation, small dia pipe, hard joints	10% Chrysotile	65% Mineral Wool	25% Other	Gray Fibrous Homogeneous
71972110PLM_95	insulation 2				Teased
TSI-19-57 - A	Thermal system insulation, small dia pipe, hard joints	55% Chrysotile	10% Cellulose	35% Other	Gray Fibrous Homogeneous
71972110PLM_57	insulation 1-unable to separate wrap				Teased

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TSI-19-57 - B	Thermal system insulation, small dia pipe, hard joints	10% Chrysotile	65% Mineral Wool	25% Other	Gray Fibrous Homogeneous
71972110PLM_96	insulation 2				Teased
TSI-20-58	Thermal system insulation, small dia pipe, straight runs	25% Amosite 5% Chrysotile	10% Cellulose	60% Other	White Fibrous Homogeneous
71972110PLM_58	unable to separate wrap				Teased
TSI-20-59	Thermal system insulation, small dia pipe, straight runs	25% Amosite 5% Chrysotile	10% Cellulose	60% Other	White Fibrous Homogeneous
71972110PLM_59	unable to separate wrap				Teased
TSI-20-60	Thermal system insulation, small dia pipe, straight runs	25% Amosite 5% Chrysotile	10% Cellulose	60% Other	White Fibrous Homogeneous
71972110PLM_60	unable to separate wrap				Teased
TSI-21-61	Thermal system insulation, med dia pipe, straight runs	25% Amosite 5% Chrysotile	10% Cellulose	60% Other	White Fibrous Homogeneous
71972110PLM_61	unable to separate wrap				Teased
TSI-21-62	Thermal system insulation, med dia pipe, straight runs	25% Amosite 5% Chrysotile	10% Cellulose	60% Other	White Fibrous Homogeneous
71972110PLM_62	unable to separate wrap				Teased
TSI-21-63	Thermal system insulation, med dia pipe, straight runs	25% Amosite 5% Chrysotile	10% Cellulose	60% Other	White Fibrous Homogeneous
71972110PLM_63	unable to separate wrap				Teased
TSI-22-64	Thermal system insulation, straight runs (Sp2-Rms 3,4,14)	30% Chrysotile	50% Cellulose	20% Other	Tan, Black Fibrous Homogeneous
71972110PLM_64	unable to separate layer				Teased

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Charmel Dozier (99)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71972110
Analysis ID: 71972110_PLM
Date Received: 8/10/2021
Date Reported: 8/17/2021

Project: PP0E00521 - Basement 8/6/21

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TSI-22-65	Thermal system insulation, straight runs (Sp2-Rms 3,4,14)	30% Chrysotile	50% Cellulose	20% Other	Tan, Black Fibrous Homogeneous
71972110PLM_65					Teased
TSI-22-66	Thermal system insulation, straight runs (Sp2-Rms 3,4,14)	30% Chrysotile	50% Cellulose	20% Other	Tan, Black Fibrous Homogeneous
71972110PLM_66					Teased
BBI-23-67	Brown kraft paper around yellow fiberglass around HVAC duct (Sp2-Rms 1&14)	None Detected	70% Cellulose	30% Other	Tan, Black Fibrous Homogeneous
71972110PLM_67					Teased, Dissolved
BBI-23-68	Brown kraft paper around yellow fiberglass around HVAC duct (Sp2-Rms 1&14)	None Detected	70% Cellulose	30% Other	Tan, Black Fibrous Homogeneous
71972110PLM_68					Teased, Dissolved
BBI-23-69	Brown kraft paper around yellow fiberglass around HVAC duct (Sp2-Rms 1&14)	Not Analyzed			
71972110PLM_69	TEM				
TSI-24-70 - A	Thermal system insulation hard joints (Sp2-Rms 3,4,14)	15% Chrysotile	30% Mineral Wool	55% Other	Tan Fibrous Homogeneous
71972110PLM_70	insulation 1				Teased
TSI-24-70 - B	Thermal system insulation hard joints (Sp2-Rms 3,4,14)	55% Chrysotile		45% Other	Gray Fibrous Homogeneous
71972110PLM_97	insulation 2				Teased
TSI-24-71 - A	Thermal system insulation hard joints (Sp2-Rms 3,4,14)	15% Chrysotile	30% Mineral Wool	55% Other	Tan Fibrous Homogeneous
71972110PLM_71	insulation 1				Teased

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Charmel Dozier (99)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71972110
Analysis ID: 71972110_PLM
Date Received: 8/10/2021
Date Reported: 8/17/2021

Project: PP0E00521 - Basement 8/6/21

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TSI-24-71 - B	Thermal system insulation hard joints (Sp2-Rms 3,4,14)	55% Chrysotile		45% Other	Gray Fibrous Homogeneous
71972110PLM_98	insulation 2				Teased
TSI-24-72 - A	Thermal system insulation hard joints (Sp2-Rms 3,4,14)	15% Chrysotile	30% Mineral Wool	55% Other	Tan Fibrous Homogeneous
71972110PLM_72	insulation 1				Teased
TSI-24-72 - B	Thermal system insulation hard joints (Sp2-Rms 3,4,14)	55% Chrysotile		45% Other	Gray Fibrous Homogeneous
71972110PLM_99	insulation 2				Teased

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Charmel Dozier (99)

Analyst


Approved Signatory



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Phone: 336.292.3888 Fax: 336.292.3313
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Lab Use Only
Lab Order ID: 71972110
Client Code: _____

Company Contact Information	
Company: GEL Engineering, LLC	Contact: Ron Sharpe/Sarah Browning
Address: 2040 Savage Road	Phone <input type="checkbox"/> : 843/769-7378
Charleston, SC 29407	Fax <input type="checkbox"/> : 843/769-7397
	Email <input checked="" type="checkbox"/> : ronald.sharpe@gel.com
	sarah.browning@gel.com
Billing/Invoice Information	
Company:	90 Min. <input type="checkbox"/> 48 Hours <input type="checkbox"/>
Contact: Same	3 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>
Address: AS	6 Hours <input type="checkbox"/> 96 Hours <input type="checkbox"/>
Above	12 Hours <input type="checkbox"/> 120 Hours <input checked="" type="checkbox"/>
	24 Hours <input type="checkbox"/> 144+ Hours <input type="checkbox"/>

Asbestos Test Types	
PLM EPA 600/R-93/116 (PLM)	<input checked="" type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/> TWA (PTA) <input type="checkbox"/>	
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input checked="" type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other:	<input type="checkbox"/>

PO Number: _____
Project Name/Number: PPOE00521 ~ Basement 8/6/21

✓ = TEM * Run PLM+TEM simultaneously *

Sample ID #	Description/Location	Volume/Area	Comments
I-1-1	Insulation on caustic room door	25 Lf	Analyze bituminous coating only
I-1-2	(SPI, Rm1)		
I-1-3			
C-2-4	Caulk on caustic room door	1 Door Observed	Analyze all layers
C-2-5	(SPI, Rm1)		
C-2-6			
G-3-7	Gaskets from process systems	All gaskets on process system flanges	Analyze gasket only
G-3-8			
G-3-9		2750	
FT-4-10	12x12 Cream Streaked FT (Rms 12-15,	850 SF	Analyze tile & mastic
FT-4-11	SPI - 2 layers in all but rm13)		
FT-4-12			
			Total # of Samples 72
Relinquished by	Date/Time	Received by	Date/Time
_____	8/9/21 @ 1200	_____	8/10
			10:30am

Accepted ☒

Rejected ☐

Page 1 of 3
A-F-017 EXP: 2/4/2021



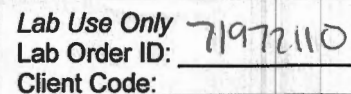
Scientific Analytical Institute
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 Phone: 336.292.3888 Fax: 336.292.3313
 www.sailab.com lab@sailab.com

Lab Use Only
 Lab Order ID: 71972110
 Client Code: _____

✓ = TEM

* Run PLM+TEM simultaneously *

Sample ID #	Specific Location	Volume/Area	Comments
FT-5-13	12x12 Mustard Yellow FT (Rm13-Sp1)	144 SF	Analyze tile and mastic
FT-5-14	(Bottom layer)	↓	↓
✓ FT-5-15	↓	↓	↓
BBI-6-16	Pink black batt insulation (Sp1-Rms 14 & 15, Sp2-Rm 13)	6800 SF	Analyze black batt only
✓ BBI-6-17	↓	↓	↓
✓ BBI-6-18	↓	↓	↓
WG-7-19	Window glaze (Sp1-Rm 12)	2 Windows	Analyze glaze only
WG-7-20	↓	↓	↓
WG-7-21	↓	↓	↓
CT-8-22	2x2' Smooth dense CT (Sp1, Rm 8)	360 SF	Analyze ceiling tile only
CT-8-23	↓	↓	↓
CT-8-24	↓	↓	↓
M-9-25	Behind Ceramic Wall Tiles (Sp1-Rm 8)	190 SF	Analyze mastic & surfacing
✓ M-9-26	only bottom 3' of walls Surfacing & mastic	↓	(TEM Mastic only)
✓ M-9-27	↓	↓	↓
CT-10-28	2'x4' Wormhole CT (Sp1-Rm 9)	2900 SF	Analyze ceiling tile only
CT-10-29	↓	↓	↓
CT-10-30	↓	↓	↓
FT-11-31	12x2 Red FT (Sp1-Rm 9 bottom layer)	225 SF	Analyze tile & mastic
FT-11-32	↓	↓	↓
✓ FT-11-33	↓	↓	↓
DW-12-34	Drywall (Sp1, Rm 8)	644 SF	Analyze drywall only
DW-12-35	↓	↓	↓
DW-12-36	↓	↓	↓
FT-13-37	9x9 Black FT (Sp2, Rm 3 & part of Rm 15)	575 SF	Analyze tile & mastic
✓ FT-13-38	↓	↓	↓
✓ FT-13-39	↓	↓	↓
VF-14-40	Faux brick Vinyl flooring (Sp2, Rm 5)	200 SF	Analyze vinyl & mastic
VF-14-41	↓	↓	↓
✓ VF-14-42	↓	↓	↓
VF-15-43	Faux Terazzo vinyl flooring (Sp2, Rm 1)	1080 SF	↓
✓ VF-15-44	↓	↓	↓
✓ VF-15-45	↓	↓	↓
TB-16-46	4" Brown Toeboard (Sp2, Rm 1)	140 LF	Analyze toeboard & mastic
✓ TB-16-47	↓	↓	↓
✓ TB-16-48	↓	↓	↓
DW-17-49	Canvas wrap & TST on HVAC ducts (Sp2-Rms 1, 3, 4, 6, 8, 9, 10, 14)	2220 SF	Analyze all layer minus insulation
DW-17-50	↓	↓	↓
DW-17-51	↓	↓	↓





Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Sarah Browning
Ron Sharpe

Lab Order ID: 71971373

Analysis ID: 71971373_TB

Date Received: 7/29/2021

Date Reported: 8/5/2021

Project: PP0E00521 Warehouse 4 7/26/21

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
Lab Sample ID	Lab Notes	(Wt. %)	(Wt. %)	(Wt. %)	(Wt. %)
C-1-3	White caulk in Men's Bathroom by Office 1	29%	-	None Detected	
71971373TBS_1					
TB-4-12-a	4" Toeboard - brownish /gray w/assoc. mastic in Office 4	57%	-	None Detected	
71971373TBS_2	toeboard				
TB-4-12-b	4" Toeboard - brownish /gray w/assoc. mastic in Office 4	31%	-	None Detected	
71971373TBS_20	mastic				
FT-5-15-a	Rust colored dirty floor tile 12"x12" w/assoc mastic in Office 4	19%	79%	None Detected	
71971373TBS_3	tile				
FT-5-15-b	Rust colored dirty floor tile 12"x12" w/assoc mastic in Office 4	37%	-	None Detected	
71971373TBS_21	mastic				
FT-6-18-a	Blue/gray dirt covered floor 12"x12" tile & associated black mastic in Offices 2 & 3	26%	57%	None Detected	
71971373TBS_4	tile				

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Daniel Schwartz (28)

Analyst

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Approved Signatory



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

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Ron Sharpe

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Analysis ID: 71971373_TB

Date Received: 7/29/2021

Date Reported: 8/5/2021

Project: PP0E00521 Warehouse 4 7/26/21

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
Lab Sample ID	Lab Notes	(Wt. %)	(Wt. %)	(Wt. %)	(Wt. %)
FT-6-18-b	Blue/gray dirt covered floor 12"x12" tile & associated black mastic in Offices 2 & 3	50.0%	-	None Detected	
71971373TBS_22	mastic				
BBI-7-21	Tan black batt insulation w/yellow fiberglass insulation in walls of Office 1	90.0%	-	None Detected	
71971373TBS_5					
BBI-9-27	Pink black batt insulation #1 on walls of canteen	87%	-	None Detected	
71971373TBS_6					
BBI-12-36	Black batt insulation w/yellow fiberglass; above ceiling in Room 7 of second floor	81%	-	None Detected	
71971373TBS_7					
FT-13-39-a	Brown streaked floor tile 12"x12" middle office second floor (top layer) - all rms except Rm 7	23%	77%	None Detected	
71971373TBS_8	tile				
FT-13-39-b	Brown streaked floor tile 12"x12" middle office second floor (top layer) - all rms except Rm 7	82%	-	None Detected	
71971373TBS_23	mastic				

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Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Sarah Browning
Ron Sharpe

Lab Order ID: 71971373

Analysis ID: 71971373_TB

Date Received: 7/29/2021

Date Reported: 8/5/2021

Project: PP0E00521 Warehouse 4 7/26/21

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes			(Wt. %)		(Wt. %)
M-14-42	Red non-slip stairs mastic; stairs to upper level middle offices	65%	-	0.35 %	Chrysotile	0.32% - 0.39%
71971373TBS_9	mastic only					
BBI-15-45	Silver black batt insulation; middle offices second floor walls behind wood paneling except Rm 7	78%	-	None Detected		
71971373TBS_10						
FT-16-48-a	9"x9" Brown floor tile & associated black mastic; middle offices second floor-all rms except bathroom (btm layer)	22%	14%	38 %	Chrysotile	34% - 42%
71971373TBS_11	tile					
FT-16-48-b	9"x9" Brown floor tile & associated black mastic; middle offices second floor-all rms except bathroom (btm layer)	72%	-	17 %	Chrysotile	15% - 18%
71971373TBS_24	mastic					
FT-18-54-a	9"x9" Rust colored floor tile & associated black mastic; middle offices 1st floor (top layer)	23%	33%	8.8 %	Chrysotile	7.9% - 9.7%
71971373TBS_25	tile					
FT-18-54-b	9"x9" Rust colored floor tile & associated black mastic; middle offices 1st floor (top layer)	51%	-	9.8 %	Chrysotile	8.8% - 11%
71971373TBS_12	mastic					

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Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
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Ron Sharpe

Lab Order ID: 71971373

Analysis ID: 71971373_TB

Date Received: 7/29/2021

Date Reported: 8/5/2021

Project: PP0E00521 Warehouse 4 7/26/21

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes			(Wt. %)		(Wt. %)
FT-19-57-a	12"x12" Tan w/brown streak floor tile & associated yellow mastic; middle offices 1st floor (top layer)	26%	72%	None Detected		
71971373TBS_13	tile					
FT-19-57-b	12"x12" Tan w/brown streak floor tile & associated yellow mastic; middle offices 1st floor (top layer)	49%	-	None Detected		
71971373TBS_26	mastic					
BBI-20-60	Black batt insulation w/pink Hall Rm 2 & 3 fiberglass #2, middle offices first floor walls behind wood paneling	88%	-	0.24 %	Chrysotile	0.21% - 0.26%
71971373TBS_14						
G-21-63	Rust colored gaskets on various size flanges	29%	-	21 %	Chrysotile	19% - 24%
71971373TBS_15						
FL-29-87	Black flashing on East exterior of building leftover residual - no overhangs present	88%	-	1.2 %	Chrysotile	1.1% - 1.4%
71971373TBS_16						
EJ-30-90	Gray expansion joint compound on East exterior of building	63%	-	None Detected		
71971373TBS_17						

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Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Sarah Browning
Ron Sharpe

Lab Order ID: 71971373

Analysis ID: 71971373_TB

Date Received: 7/29/2021

Date Reported: 8/5/2021

Project: PP0E00521 Warehouse 4 7/26/21

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
Lab Sample ID	Lab Notes	(Wt. %)	(Wt. %)	(Wt. %)	(Wt. %)
FT-32-96-a	Dark gray 12'x12' floor tile & associated mastic space 3 Rm 1	16%	83%	None Detected	
71971373TBS_18	tile				
FT-32-96-b	Dark gray 12'x12' floor tile & associated mastic space 3 Rm 1	23%	-	None Detected	
71971373TBS_27	mastic				
TB-33-99-b	Grayish blue toeboard & associated mastic space 3 Rm 1	30.0%	-	None Detected	
71971373TBS_28	mastic				
TB-33-99-a	Grayish blue toeboard & associated mastic space 3 Rm 1	41%	-	None Detected	
71971373TBS_19	toeboard				

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Phone: 336.292.3888 - Fax: 336.292.3313
www.sailab.com lab@sailab.com

Lab Use Only
Lab Order ID: 71971373
Client Code: _____

Company Contact Information	
Company: GEL Engineering, LLC	Contact: Ronald Sharpe / Sarah Browning
Address: 7040 Sycamore Road Charlotte, NC 281407	Phone: 843/769-7375 Fax: 843/769-7397 Email: <input checked="" type="checkbox"/> ronald.sharpe@gel.com sarah.browning@gel.com
Billing/Invoice Information	
Company:	90 Min. <input type="checkbox"/> 48 Hours <input type="checkbox"/>
Contact: Same	3 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>
Address: 119 Horse	6 Hours <input type="checkbox"/> 96 Hours <input type="checkbox"/>
	12 Hours <input type="checkbox"/> 120 Hours <input checked="" type="checkbox"/>
	24 Hours <input type="checkbox"/> 144*Hours <input type="checkbox"/>

Asbestos Test Types	
PLM EPA 600/R-93/116 (PLM)	<input checked="" type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/> TWA (PTA) <input type="checkbox"/>	
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input checked="" type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>

PO Number: _____
Project Name/Number: PPOE 00521 Warehouse 4 (7/26/21)

✓ = TEM * Run PLM + TEM simultaneously *

Sample ID #	Description/Location	Volume/Area	Comments
C-1-1	White Caulk in Men's	~10 LF	Analyze caulk only
C-1-2	Bathroom by Office 1	↓	↓
C-1-3	↓	↓	↓
C-2-4	Ceiling tile - smooth, dense	~144 SF	Analyze ceiling tile only
C-2-5	in Men's Bathroom by Office 1	↓	↓
C-2-6	↓	↓	↓
C-3-7	Canvas wrap, big box duct (metal)	~360 SF	Analyze canvas wrap
C-3-8	bagged material on main	↓	only
C-3-9	warehouse ↓ floor near Middle Offices	↓	↓
TR-2-10	4 Teckboard - brownish gray w/	~100 LF	Analyze tht + mastic
TR-4-11	mastic in Office 4	↓	only
TR-4-12		↓	

Total # of Samples _____

Relinquished by	Date/Time	Received by	Date/Time
Kennedy	7/26/21	7/26/21	7/26/21

Accepted ☒

Rejected ☐



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 Phone: 336.292.3888 Fax: 336.292.3313
 www.sailab.com lab@sailab.com

Lab Use Only
 Lab Order ID: **71971373**
 Client Code: _____

Warehouse 4

Sample ID #	Specific Location	Volume/Area	Comments
FT-5-13	rust colored dirty floor tile 12"x12"	~400 SF	Analyze FT + Mastic
FT-5-14	w/assoc mastic in Office 4	↓	(if present)
FT-5-15	↓	↓	↓
FT-6-16	blue/gray dirt covered floor tile 12"x12"	~360 SF	Analyze FT + Mastic
FT-6-17	associated black mastic in offices	↓	(if present)
FT-6-18	↓ 2 and 3	↓	↓
BBI-7-19	Tan black batt insulation w/	~288 SF	Analyze black batt
BBI-7-20	yellow fiberglass insulation	↓	only
BBI-7-21	in walls of Office 1	↓ 37,000	↓
FB-8-22	yellowish brick	~1,000 SF	Analyze brick only
FB-8-23	(first layer) in all - walls cream	↓	↓
FB-8-24	↓	↓ 320'	↓
BBI-9-25	pink black batt insulation	~1,000 SF	Analyze black batt
BBI-9-26	all on walls of canteen	↓	only
BBI-9-27	↓	↓	↓
CB-10-28	white/cream cement board panels	1,000 SF	Analyze cementboard
CB-10-29	on mezzanine level	↓	only
CB-10-30	↓	↓	↓
CT-11-31	white ceiling tile (plaster),	~3,000 SF	Analyze ceiling tile only
CT-11-32	2x2 wormhole	↓	↓
CT-11-33	in canteen, office 2, office 3, & Entirety of Middle Offices	↓ 180	↓
BBI-12-34	black batt insulation w/ yellow fiberglass; middle offices	~1,000 SF	Analyze black batt only
BBI-12-35	fiberglass; middle offices	↓	↓
BBI-12-36	Above ceiling in Room 7 of Second Floor; Middle Offices	↓	↓
FT-13-37	brown streaked floor tile 12"x12"	~1,000 SF	Analyze FT and Mastic
FT-13-38	end of middle office Second Floor	↓	(if present)
FT-13-39	(top layer) - all rms except Rm 7	↓	↓
M-14-40	red non-slip stairs mastic; stairs	~60 SF	* Analyze mastic
M-14-41	to upper level middle offices	↓	only *
M-14-42	↓	↓	↓
BBI-15-43	silver black batt insulation -	~1,400 SF	Analyze black batt
BBI-15-44	middle offices black Second Floor	↓	only
BBI-15-45	Walls behind wood paneling Rm 7	↓ 1,200	↓
FT-16-46	brown floor tile + associated	~1,000 SF	↓
FT-16-47	black mastic; middle offices	↓	Analyze FT + Mastic
FT-16-48	upper level Second Floor - all rms except bathroom (btm layer)	↓	(if present)



* Run PLM + TEM Simultaneously *

Scientific Analytical Institute

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Lab Use Only

Lab Order ID:

Client Code:

71971373

Warehouse 4

Sample ID #	Specific Location	Volume/Area	Comments
D-17-49	White plaster w/ gray outer coating	~1,000 SF	* Analyze plaster
D-17-50	Middle offices (skim base)	↓	only * both layers
P-17-51	First & Second Floor Walk coats)	↓	↓
FT-18-52	rust colored floor	~1,320 SF	Analyze FT + Mastic
FT-18-53	tile & associated black mastic;	↓	(if present)
✓ FT-18-54	Middle offices 1st floor (bottom layer)	↓	↓
ET-19-55	tile w/ brown break floor tile	~1,320 SF	↓
ET-19-56	tile & associated yellow mastic; middle	↓	↓
✓ ET-19-57	offices floor (top layer)	↓	↓
302-20-58	black batt insulation w/ pink fiberglass	~1,000 SF	Analyze black batt
302-20-59	Fiberglass middle offices First	↓	only
✓ 302-20-60	floor walls behind wood paneling	↓	↓
G-21-61	rust colored gaskets on various	All gaskets on	Analyze gasket only
G-21-62	size flanges	process system	↓
✓ G-21-63	↓	flanges	↓
TSI-22-64	thermal system insulation small	Process System	Analyze TSi only
TSI-22-65	diameter; straight run	Lines	↓
TSI-22-66	↓	↓	↓
TSI-23-67	thermal system insulation medium	↓	↓
TSI-23-68	diameter; straight run	↓	↓
TSI-23-69	↓	↓	↓
TSI-24-70	thermal system insulation large	↓	↓
TSI-24-71	diameter; straight run	↓	↓
TSI-24-72	↓	↓	↓
HS-25-73	white hard joint, small diameter	Process System	Analyze TSi + Wrap
HS-25-74	↓	Lines	only
HS-25-75	↓	↓	↓
HS-26-76	white & gray hard joint, medium	↓	↓
HS-26-77	diameter	↓	↓
HS-26-78	↓	↓	↓
HS-27-79	white & dark gray hard joint,	↓	↓
HS-27-80	large diameter	↓	↓
HS-27-81	↓	↓ 37,000	↓
FB-28-82	red brick located behind	~8,700 SF	Analyze brick only
FB-28-83	cream brick	↓	↓
FB-28-84	↓	↓	↓

MAP



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Project: PP0E00521 Warehouse 4 7/26/21

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
C-1-1	White caulk in Men's Bathroom by Office 1	None Detected		100% Other	White Non Fibrous Homogeneous
71971372PLM_1					Dissolved
C-1-2	White caulk in Men's Bathroom by Office 1	None Detected		100% Other	White Non Fibrous Homogeneous
71971372PLM_2					Dissolved
C-1-3	White caulk in Men's Bathroom by Office 1	Not Analyzed			
71971372PLM_3	TEM				
CT-2-4	Ceiling tile - smooth, dense in Men's Bathroom by Office 1	None Detected	10% Cellulose 2% Fiber Glass	88% Other	White, Tan Fibrous Homogeneous
71971372PLM_4					Crushed
CT-2-5	Ceiling tile - smooth, dense in Men's Bathroom by Office 1	None Detected	10% Cellulose 2% Fiber Glass	88% Other	White, Tan Fibrous Homogeneous
71971372PLM_5					Crushed
CT-2-6	Ceiling tile - smooth, dense in Men's Bathroom by Office 1	None Detected	10% Cellulose 2% Fiber Glass	88% Other	White, Tan Fibrous Homogeneous
71971372PLM_6					Crushed
CW-3-7	Canvas wrap, big box duct (metal) beige/on Main Warehouse floor near middle	None Detected	90% Cellulose	10% Other	White Fibrous Homogeneous
71971372PLM_7					Ashed
CW-3-8	Canvas wrap, big box duct (metal) beige/on Main Warehouse floor near middle	None Detected	90% Cellulose	10% Other	White Fibrous Homogeneous
71971372PLM_8					Ashed

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Lab Sample ID	Lab Notes				Treatment
CW-3-9	Canvas wrap, big box duct (metal) beige/on Main Warehouse floor near middle	None Detected	90% Cellulose	10% Other	White Fibrous Homogeneous
71971372PLM_9					Ashed
TB-4-10 - A	4" Toeboard - brownish/gray w/assoc. mastic in Office 4	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971372PLM_10	toeboard				Dissolved
TB-4-10 - B	4" Toeboard - brownish/gray w/assoc. mastic in Office 4	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971372PLM_103	mastic				Dissolved
TB-4-11 - A	4" Toeboard - brownish/gray w/assoc. mastic in Office 4	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971372PLM_11	toeboard				Dissolved
TB-4-11 - B	4" Toeboard - brownish/gray w/assoc. mastic in Office 4	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971372PLM_104	mastic				Dissolved
TB-4-12	4" Toeboard - brownish/gray w/assoc. mastic in Office 4	Not Analyzed			
71971372PLM_12	TEM				
FT-5-13 - A	Rust colored dirty floor tile 12"x12" w/assoc mastic on Office 4	None Detected		100% Other	White Non Fibrous Homogeneous
71971372PLM_13	tile				Dissolved
FT-5-13 - B	Rust colored dirty floor tile 12"x12" w/assoc mastic on Office 4	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971372PLM_105	mastic				Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-5-14 - A	Rust colored dirty floor tile 12"x12" w/assoc mastic on Office 4	None Detected		100% Other	White Non Fibrous Homogeneous
71971372PLM_14	tile				Dissolved
FT-5-14 - B	Rust colored dirty floor tile 12"x12" w/assoc mastic on Office 4	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971372PLM_106	mastic				Dissolved
FT-5-15	Rust colored dirty floor tile 12"x12" w/assoc mastic on Office 4	Not Analyzed			
71971372PLM_15	TEM				
FT-6-16 - A	Blue/gray dirt covered floor 12"x12" tile & associated black mastic in Offices 2 and	None Detected		100% Other	Tan Non Fibrous Homogeneous
71971372PLM_16	tile				Dissolved
FT-6-16 - B	Blue/gray dirt covered floor 12"x12" tile & associated black mastic in Offices 2 and	2% Chrysotile		98% Other	Black Non Fibrous Homogeneous
71971372PLM_107	mastic				Dissolved
FT-6-17 - A	Blue/gray dirt covered floor 12"x12" tile & associated black mastic in Offices 2 and	None Detected		100% Other	Tan Non Fibrous Homogeneous
71971372PLM_17	tile				Dissolved
FT-6-17 - B	Blue/gray dirt covered floor 12"x12" tile & associated black mastic in Offices 2 and	2% Chrysotile		98% Other	Tan Non Fibrous Homogeneous
71971372PLM_108	mastic				Dissolved
FT-6-18	Blue/gray dirt covered floor 12"x12" tile & associated black mastic in Offices 2 and	Not Analyzed			
71971372PLM_18	TEM				

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
BBI-7-19	Tan black batt insulation w/yellow fiberglass insulation in walls of Fiice 1	None Detected	70% Cellulose	30% Other	Tan, Black Fibrous Homogeneous
71971372PLM_19					Dissolved
BBI-7-20	Tan black batt insulation w/yellow fiberglass insulation in walls of Fiice 1	None Detected	70% Cellulose	30% Other	Tan, Black Fibrous Homogeneous
71971372PLM_20					Dissolved
BBI-7-21	Tan black batt insulation w/yellow fiberglass insulation in walls of Fiice 1	Not Analyzed			
71971372PLM_21	TEM				
FB-8-22	Brick (first layer) N.W.S walls cream	None Detected		100% Other	Cream Non Fibrous Homogeneous
71971372PLM_22					Crushed
FB-8-23	Brick (first layer) N.W.S walls cream	None Detected		100% Other	Cream Non Fibrous Homogeneous
71971372PLM_23					Crushed
FB-8-24	Brick (first layer) N.W.S walls cream	None Detected		100% Other	Cream Non Fibrous Homogeneous
71971372PLM_24					Crushed
BBI-9-25	Pink black batt insulation #1 on walls of canteen	None Detected		100% Other	Black Non Fibrous Homogeneous
71971372PLM_25					Dissolved
BBI-9-26	Pink black batt insulation #1 on walls of canteen	None Detected		100% Other	Black Non Fibrous Homogeneous
71971372PLM_26					Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
BBI-9-27	Pink black batt insulation #1 on walls of canteen	Not Analyzed			
71971372PLM_27	TEM				
CB-10-28	White/cream cement board panels on mezzanine level	15% Chrysotile		85% Other	Gray Fibrous Homogeneous
71971372PLM_28					Crushed
CB-10-29	White/cream cement board panels on mezzanine level	15% Chrysotile		85% Other	Gray Fibrous Homogeneous
71971372PLM_29					Crushed
CB-10-30	White/cream cement board panels on mezzanine level	15% Chrysotile		85% Other	Gray Fibrous Homogeneous
71971372PLM_30					Crushed
CT-11-31	White ceiling tile (wormhole) in canteen, Office 2, Office 3, & entirety of middle offices	None Detected	35% Cellulose 35% Fiber Glass	30% Other	Tan Fibrous Homogeneous
71971372PLM_31					Teased
CT-11-32	White ceiling tile (wormhole) in canteen, Office 2, Office 3, & entirety of middle offices	None Detected	35% Cellulose 35% Fiber Glass	30% Other	Tan Fibrous Homogeneous
71971372PLM_32					Teased
CT-11-33	White ceiling tile (wormhole) in canteen, Office 2, Office 3, & entirety of middle offices	None Detected	35% Cellulose 35% Fiber Glass	30% Other	Gray Fibrous Homogeneous
71971372PLM_33					Teased
BBI-12-34	Black batt insulation w/yellow fiberglass; above ceiling in Room 7 of second floor	None Detected		100% Other	Black Non Fibrous Homogeneous
71971372PLM_34					Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
BBI-12-35	Black batt insulation w/yellow fiberglass; above ceiling in Room 7 of second floor	None Detected		100% Other	Black Non Fibrous Homogeneous
71971372PLM_35					Dissolved
BBI-12-36	Black batt insulation w/yellow fiberglass; above ceiling in Room 7 of second floor	Not Analyzed			
71971372PLM_36	TEM				
FT-13-37 - A	Brown streaked floor tile 12"x12" middle office second floor	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971372PLM_37	tile				Dissolved
FT-13-37 - B	Brown streaked floor tile 12"x12" middle office second floor	None Detected		100% Other	Black Non Fibrous Homogeneous
71971372PLM_109	mastic				Dissolved
FT-13-38 - A	Brown streaked floor tile 12"x12" middle office second floor	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971372PLM_38	tile				Dissolved
FT-13-38 - B	Brown streaked floor tile 12"x12" middle office second floor	None Detected		100% Other	Black Non Fibrous Homogeneous
71971372PLM_110	mastic				Dissolved
FT-13-39	Brown streaked floor tile 12"x12" middle office second floor	Not Analyzed			
71971372PLM_39	TEM				
M-14-40	Red non-slip stairs mastic; stairs to upper level middle offices	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971372PLM_40	small sample				Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
M-14-41	Red non-slip stairs mastic; stairs to upper level middle offices	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971372PLM_41	small sample				Dissolved
M-14-42	Red non-slip stairs mastic; stairs to upper level middle offices	Not Analyzed			
71971372PLM_42	TEM				
BBI-15-43	Silver black batt insulation; middle offices second floor walls behind wood paneling e	None Detected		100% Other	Black Non Fibrous Homogeneous
71971372PLM_43					Dissolved
BBI-15-44	Silver black batt insulation; middle offices second floor walls behind wood paneling e	None Detected		100% Other	Black Non Fibrous Homogeneous
71971372PLM_44					Dissolved
BBI-15-45	Silver black batt insulation; middle offices second floor walls behind wood paneling e	Not Analyzed			
71971372PLM_45	TEM				
FT-16-46 - A	9"x9" Brown floor tile & associated black mastic; middle offices second floor-all	5% Chrysotile		95% Other	Gray Non Fibrous Homogeneous
71971372PLM_46	tile				Dissolved
FT-16-46 - B	9"x9" Brown floor tile & associated black mastic; middle offices second floor-all	5% Chrysotile		95% Other	Black Non Fibrous Homogeneous
71971372PLM_111	mastic				Dissolved
FT-16-47 - A	9"x9" Brown floor tile & associated black mastic; middle offices second floor-all	5% Chrysotile		95% Other	Gray Non Fibrous Homogeneous
71971372PLM_47	tile				Dissolved

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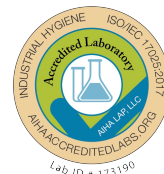
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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-16-47 - B	9"x9" Brown floor tile & associated black mastic; middle offices second floor-all	5% Chrysotile		95% Other	Black Non Fibrous Homogeneous
71971372PLM_112	mastic				Dissolved
FT-16-48	9"x9" Brown floor tile & associated black mastic; middle offices second floor-all	Not Analyzed			
71971372PLM_48					
P-17-49 - A	White plaster w/gray outer coting middle offices (skim & base coats) first & second floo	None Detected		100% Other	White Non Fibrous Homogeneous
71971372PLM_49	finish				Crushed
P-17-49 - B	White plaster w/gray outer coting middle offices (skim & base coats) first & second floo	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971372PLM_113	base				Crushed
P-17-50 - A	White plaster w/gray outer coting middle offices (skim & base coats) first & second floo	None Detected		100% Other	White Non Fibrous Homogeneous
71971372PLM_50	finish				Crushed
P-17-50 - B	White plaster w/gray outer coting middle offices (skim & base coats) first & second floo	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971372PLM_114	base				Crushed
P-17-51 - A	White plaster w/gray outer coting middle offices (skim & base coats) first & second floo	None Detected		100% Other	White Non Fibrous Homogeneous
71971372PLM_51	finish				Crushed
P-17-51 - B	White plaster w/gray outer coting middle offices (skim & base coats) first & second floo	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971372PLM_115	base				Crushed

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Charmel Dozier (135)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Sarah Browning
Ron Sharpe

Lab Order ID: 71971372
Analysis ID: 71971372_PLM
Date Received: 7/29/2021
Date Reported: 8/5/2021

Project: PP0E00521 Warehouse 4 7/26/21

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-18-52 - A	9"x9" Rust colored floor tile & associated black mastic; middle offices 1st floor (btm 1)	5% Chrysotile		95% Other	Brown Non Fibrous Homogeneous
71971372PLM_52	tile				Dissolved
FT-18-52 - B	9"x9" Rust colored floor tile & associated black mastic; middle offices 1st floor (btm 1)	None Detected		100% Other	Black Non Fibrous Homogeneous
71971372PLM_116	mastic				Dissolved
FT-18-53 - A	9"x9" Rust colored floor tile & associated black mastic; middle offices 1st floor (btm 1)	5% Chrysotile		95% Other	Brown Non Fibrous Homogeneous
71971372PLM_53	tile				Dissolved
FT-18-53 - B	9"x9" Rust colored floor tile & associated black mastic; middle offices 1st floor (btm 1)	None Detected		100% Other	Black Non Fibrous Homogeneous
71971372PLM_117					Dissolved
FT-18-54	9"x9" Rust colored floor tile & associated black mastic; middle offices 1st floor (btm 1)	Not Analyzed			
71971372PLM_54	TEM				
FT-19-55 - A	12"x12" Tan w/brown streak floor tile & associated yellow mastic; middle offices 1st floor	3% Chrysotile		97% Other	Tan Non Fibrous Homogeneous
71971372PLM_55	tile				Dissolved
FT-19-55 - B	12"x12" Tan w/brown streak floor tile & associated yellow mastic; middle offices 1st floor	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971372PLM_118	mastic				Dissolved
FT-19-56 - A	12"x12" Tan w/brown streak floor tile & associated yellow mastic; middle offices 1st floor	3% Chrysotile		97% Other	Tan Non Fibrous Homogeneous
71971372PLM_56	tile				Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-19-56 - B	12"x12" Tan w/brown streak floor tile & associated yellow mastic; middle offices 1st floor	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971372PLM_119	mastic				Dissolved
FT-19-57	12"x12" Tan w/brown streak floor tile & associated yellow mastic; middle offices 1st floor	Not Analyzed			
71971372PLM_57	TEM				
BBI-20-58	Black batt insulation w/pink Hall Rm 2 & 3 fiberglass #2, middle offices first floor walls	None Detected		100% Other	Black Non Fibrous Homogeneous
71971372PLM_58					Dissolved
BBI-20-59	Black batt insulation w/pink Hall Rm 2 & 3 fiberglass #2, middle offices first floor walls	None Detected		100% Other	Black Non Fibrous Homogeneous
71971372PLM_59					Dissolved
BBI-20-60	Black batt insulation w/pink Hall Rm 2 & 3 fiberglass #2, middle offices first floor walls	Not Analyzed			
71971372PLM_60	TEM				
G-21-61	Rust colored gaskets on various size flanges	70% Chrysotile		30% Other	Gray Fibrous Homogeneous
71971372PLM_61					Teased
G-21-62	Rust colored gaskets on various size flanges	70% Chrysotile		30% Other	Gray Fibrous Homogeneous
71971372PLM_62					Teased
G-21-63	Rust colored gaskets on various size flanges	Not Analyzed			
71971372PLM_63					

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TSI-22-64	Thermal system insulation small diameter; straight run	15% Amosite 5% Chrysotile		80% Other	White Fibrous Homogeneous
71971372PLM_64					Teased
TSI-22-65	Thermal system insulation small diameter; straight run	None Detected	15% Cellulose	85% Other	White Fibrous Homogeneous
71971372PLM_65					Teased
TSI-22-66	Thermal system insulation small diameter; straight run	None Detected	5% Synthetic Fibers	95% Other	White Fibrous Homogeneous
71971372PLM_66					Teased
TSI-23-67	Thermal system insulation medium diameter; straight run	None Detected		100% Other	White Non Fibrous Homogeneous
71971372PLM_67					Crushed
TSI-23-68	Thermal system insulation medium diameter; straight run	15% Amosite 5% Chrysotile		80% Other	White Fibrous Homogeneous
71971372PLM_68					Teased
TSI-23-69	Thermal system insulation medium diameter; straight run	None Detected	5% Synthetic Fibers	95% Other	White Fibrous Homogeneous
71971372PLM_69					Teased
TSI-24-70	Thermal system insulation large diameter; straight run	15% Amosite 5% Chrysotile		80% Other	White Fibrous Homogeneous
71971372PLM_70					Teased
TSI-24-71	Thermal system insulation large diameter; straight run	None Detected	10% Synthetic Fibers	90% Other	White Fibrous Homogeneous
71971372PLM_71					Teased

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TSI-24-72	Thermal system insulation large diameter; straight run	15% Amosite 5% Chrysotile		80% Other	White Fibrous Homogeneous
71971372PLM_72					Teased
HJ-25-73 - A	White hard joint, small diameter	10% Chrysotile	30% Fiber Glass	60% Other	Gray Fibrous Homogeneous
71971372PLM_73	wrap				Dissolved
HJ-25-73 - B	White hard joint, small diameter	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971372PLM_120	insulation				Crushed
HJ-25-74 - A	White hard joint, small diameter	10% Chrysotile	30% Fiber Glass	60% Other	Gray Fibrous Homogeneous
71971372PLM_74	wrap				Dissolved
HJ-25-74 - B	White hard joint, small diameter	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971372PLM_121	insulation				Crushed
HJ-25-75 - A	White hard joint, small diameter	10% Chrysotile	60% Cellulose	30% Other	Gray Fibrous Homogeneous
71971372PLM_75	wrap				Dissolved
HJ-25-75 - B	White hard joint, small diameter	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971372PLM_122	insulation				Crushed
HJ-26-76 - A	White & gray hard joint, medium diameter	10% Chrysotile	30% Fiber Glass	60% Other	Gray Fibrous Homogeneous
71971372PLM_76	wrap				Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
HJ-26-76 - B	White & gray hard joint, medium diameter	None Detected	10% Synthetic Fibers	90% Other	White Fibrous Homogeneous
71971372PLM_123	insulation 1				Teased
HJ-26-76 - C	White & gray hard joint, medium diameter	None Detected	20% Fiber Glass	80% Other	Gray Non Fibrous Homogeneous
71971372PLM_124	insulation 2				Crushed
HJ-26-77 - A	White & gray hard joint, medium diameter	3% Chrysotile	30% Fiber Glass	67% Other	Gray Fibrous Homogeneous
71971372PLM_77	wrap				Dissolved
HJ-26-77 - B	White & gray hard joint, medium diameter	25% Chrysotile		75% Other	White Fibrous Homogeneous
71971372PLM_125	insulation 1				Teased
HJ-26-77 - C	White & gray hard joint, medium diameter	None Detected	20% Fiber Glass	80% Other	Gray Non Fibrous Homogeneous
71971372PLM_126	insulation 2				Crushed
HJ-26-78 - A	White & gray hard joint, medium diameter	30% Chrysotile		70% Other	Gray Fibrous Homogeneous
71971372PLM_78	insulation 1				Teased
HJ-26-78 - B	White & gray hard joint, medium diameter	25% Chrysotile		75% Other	White Fibrous Homogeneous
71971372PLM_127	insulation 2				Teased
HJ-27-79 - A	White & dark gray hard joint, large diameter	5% Chrysotile	90% Cellulose	5% Other	Gray Fibrous Homogeneous
71971372PLM_79	wrap				Teased

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
HJ-27-79 - B	White & dark gray hard joint, large diameter	30% Chrysotile		70% Other	Gray Fibrous Homogeneous
71971372PLM_128	insulation 1				Teased
HJ-27-79 - C	White & dark gray hard joint, large diameter	25% Chrysotile		75% Other	White Fibrous Homogeneous
71971372PLM_135	insulation 2				Teased
HJ-27-80 - A	White & dark gray hard joint, large diameter	3% Chrysotile	82% Cellulose	15% Other	Gray Fibrous Homogeneous
71971372PLM_80	wrap				Teased
HJ-27-80 - B	White & dark gray hard joint, large diameter	30% Chrysotile		70% Other	Gray Fibrous Homogeneous
71971372PLM_129	insulation 1				Teased
HJ-27-80 - C	White & dark gray hard joint, large diameter	20% Amosite 5% Chrysotile		75% Other	White Fibrous Homogeneous
71971372PLM_130	insulation 2				Teased
HJ-27-81	White & dark gray hard joint, large diameter	20% Amosite 5% Chrysotile		75% Other	White Fibrous Homogeneous
71971372PLM_81					Teased
FB-28-82	Red brick located behind cream brick	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971372PLM_82					Crushed
FB-28-83	Red brick located behind cream brick	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971372PLM_83					Crushed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FB-28-84	Red brick located behind cream brick	None Detected		100% Other	Red Non Fibrous Homogeneous
71971372PLM_84					Crushed
FL-29-85	Black flashing on East exterior of building leftover residual - no overhangs present	10% Chrysotile	30% Cellulose	60% Other	Black Fibrous Homogeneous
71971372PLM_85					Dissolved
FL-29-86	Black flashing on East exterior of building leftover residual - no overhangs present	10% Chrysotile	30% Cellulose	60% Other	Black Fibrous Homogeneous
71971372PLM_86					Dissolved
FL-29-87	Black flashing on East exterior of building leftover residual - no overhangs present	Not Analyzed			
71971372PLM_87					
EJ-30-88	Gray expansion joint compound on East exterior of building	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971372PLM_88					Dissolved
EJ-30-89	Gray expansion joint compound on East exterior of building	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971372PLM_89					Dissolved
EJ-30-90	Gray expansion joint compound on East exterior of building	Not Analyzed			
71971372PLM_90	TEM				
CT-31-91	Birds ft ceiling tile 2'x2' space 3 Rm 1	None Detected	35% Cellulose 35% Fiber Glass	30% Other	Tan Fibrous Homogeneous
71971372PLM_91					Teased

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Lab Sample ID	Lab Notes				Treatment
CT-31-92	Birds ft ceiling tile 2'x2' space 3 Rm 1	None Detected	35% Cellulose 35% Fiber Glass	30% Other	Tan Fibrous Homogeneous
71971372PLM_92					Teased
CT-31-93	Birds ft ceiling tile 2'x2' space 3 Rm 1	None Detected	35% Cellulose 35% Fiber Glass	30% Other	Tan Fibrous Homogeneous
71971372PLM_93					Teased
FT-32-94 - A	Dark gray 12'x12' floor tile & associated mastic space 3 Rm 1	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971372PLM_94	tile				Dissolved
FT-32-94 - B	Dark gray 12'x12' floor tile & associated mastic space 3 Rm 1	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971372PLM_131	mastic				Dissolved
FT-32-95 - A	Dark gray 12'x12' floor tile & associated mastic space 3 Rm 1	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971372PLM_95	tile				Dissolved
FT-32-95 - B	Dark gray 12'x12' floor tile & associated mastic space 3 Rm 1	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971372PLM_132	mastic				Dissolved
FT-32-96	Dark gray 12'x12' floor tile & associated mastic space 3 Rm 1	Not Analyzed			
71971372PLM_96	TEM				
TB-33-97 - A	Graying blue toeboard & associated mastic space 3 Rm 1	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971372PLM_97	toeboard				Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TB-33-97 - B	Grayish blue toeboard & associated mastic space 3 Rm 1	None Detected		100% Other	Yellow, Green Non Fibrous Homogeneous
71971372PLM_133	mastic				Dissolved
TB-33-98 - A	Grayish blue toeboard & associated mastic space 3 Rm 1	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971372PLM_98	toeboard				Dissolved
TB-33-98 - B	Grayish blue toeboard & associated mastic space 3 Rm 1	None Detected		100% Other	Yellow, Green Non Fibrous Homogeneous
71971372PLM_134	mastic				Dissolved
TB-33-99	Grayish blue toeboard & associated mastic space 3 Rm 1	Not Analyzed			
71971372PLM_99	TEM				
FH-34-100	Fire hose canvas wrap; fire hoses throughout warehouse 4	None Detected	98% Synthetic Fibers	2% Other	Beige Fibrous Homogeneous
71971372PLM_100					Teased
FH-34-101	Fire hose canvas wrap; fire hoses throughout warehouse 4	None Detected	98% Synthetic Fibers	2% Other	Beige Fibrous Homogeneous
71971372PLM_101					Teased
FH-34-102	Fire hose canvas wrap; fire hoses throughout warehouse 4	None Detected	98% Synthetic Fibers	2% Other	Beige Fibrous Homogeneous
71971372PLM_102					Teased

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 www.sailab.com lab@sailab.com

Lab Use Only 71971372
 Lab Order ID: _____
 Client Code: _____

Company Contact Information	
Company: <u>GEL Engineering, LLC</u>	Contact: <u>Ron Sharpe/Sarah Browning</u>
Address: <u>2040 Savage Road</u>	Phone <input type="checkbox"/> : <u>843/769-7378</u>
<u>Charleston, SC 29407</u>	Fax <input type="checkbox"/> : <u>843/769-7397</u>
	Email <input checked="" type="checkbox"/> : <u>ronald.sharpe@gel.com</u>
	<u>sarah.browning@gel.com</u>
Billing/Invoice Information	
Company:	90 Min. <input type="checkbox"/> 48 Hours <input type="checkbox"/>
Contact: <u>Same</u>	3 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>
Address: <u>HS</u>	6 Hours <input type="checkbox"/> 96 Hours <input type="checkbox"/>
<u>Above</u>	12 Hours <input type="checkbox"/> 120 Hours <input checked="" type="checkbox"/>
	24 Hours <input type="checkbox"/> 144* Hours <input type="checkbox"/>

Asbestos Test Types	
PLM EPA 600/R-93/116 (PLM)	<input checked="" type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/> TWA (PTA) <input type="checkbox"/>	
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input checked="" type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>

PO Number: _____
 Project Name/Number: PPOE 00521 Warehouse 4 7/26/21

✓ = TEM * Run PLM + TEM simultaneously *

Sample ID #	Description/Location	Volume/Area	Comments
C-1-1	White caulk in Men's	~10 LF	Analyze caulk only
C-1-2	Bathroom by Office 1	↓	↓
C-1-3	↓	↓	↓
CT-2-4	ceiling tile - smooth, dense	~144 SF	Analyze ceiling tile only
CT-2-5	in Men's ceiling Bathroom by Office 1	↓	↓
CT-2-6	↓	↓	↓
CW-3-7	Canvas wrap, big box duct (metal)	~360 SF	Analyze canvas wrap
CW-3-8	beige light brown on main	↓	only
CW-3-9	warehouse ↓ floor near Middle Offices	↓	↓
TB-4-10	4" Tackboard - brownish/gray w/	~100 LF	Analyze tack mastic
1/TB-4-11	assoc. mastic in Office 4	↓	only
✓ TB-4-12		↓	

Total # of Samples _____

Relinquished by	Date/Time	Received by	Date/Time
<u>[Signature]</u>	<u>7/28/21 1100</u>	<u>[Signature]</u>	<u>7/29/21 10:30A</u>

Accepted ☒

Rejected ☐



✓ = TEM

* Run PLM + TEM simultaneously *

Scientific Analytical Institute
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Lab Use Only
Lab Order ID: 71971372
Client Code: _____

Warehouse 4

Sample ID #	Specific Location	Volume/Area	Comments
FT-5-13	rust colored dirty floor tile 12"x12"	~400 SF	Analyze FT + Mastic
FT-5-14	w/assoc. mastic in Office 4	↓	(if present)
✓ FT-5-15	↓	↓	↓
FT-6-16	blue/gray dirt covered floor tile 12"x12"	~360 SF	Analyze FT + Mastic
FT-6-17	associated black mastic in offices	↓	(if present)
✓ FT-6-18	↓ 2 and 3	↓	↓
BBI-7-19	Tan black batt insulation w/	~288 SF	Analyze black batt
BBI-7-20	yellow fiberglass insulation	↓	only
✓ BBI-7-21	in Walls of ↓ Office 1	↓ 37,000	↓
Map → FB-8-22	yellow brick brick	~1,000 SF	Analyze brick only
FB-8-23	(first layer) N.W.S walls cream	↓	↓
FB-8-24	↓	↓ 320'	↓
BBI-9-25	pink black batt insulation	~1,000 SF	Analyze black batt
BBI-9-26	#1 on walls of canteen	↓	only
✓ BBI-9-27	↓	↓	↓
CB-10-28	White/Cream cement board panels	1,680 SF	Analyze cementboard
CB-10-29	on mezzanine level	↓	only
CB-10-30	↓	↓	↓
CT-11-31	White ceiling tile (perforated);	~3,800 SF	Analyze ceiling tile only
CT-11-32	12" x 12" perforated wormhole	↓	↓
CT-11-33	in canteen, office 2, office 3, & Entirety of Middle Offices	↓ 180	↓
Map → BBI-12-34	black batt insulation w/ yellow	~1,000 SF	Analyze black batt only
BBI-12-35	fiberglass; middle office ceiling	↓	↓
✓ BBI-12-36	Above ceiling in ↓ Room 7 of Second Floor Middle Offices	↓	↓
FT-13-37	brown streaked floor tile 12"x12"	~1,000 SF	Analyze FT and Mastic
FT-13-38	bottom of middle office Second Floor	↓	(if present)
✓ FT-13-39	(top layer) - all rms except Rm 7	↓	↓
M-14-40	red non-slip stairs mastic; stairs	~60 SF	* Analyze mastic
M-14-41	to upper level middle offices	↓	only *
✓ M-14-42	↓	↓	↓
BBI-15-43	silver black batt insulation;	~1,400 SF	Analyze black batt
BBI-15-44	middle offices 2nd Second Floor	↓	only
✓ BBI-15-45	Walls behind ↓ wood paneling except Rm 7	↓ ~1,200	↓
FT-16-46	brown floor tile & associated	~1,000 SF	↓
FT-16-47	black mastic; middle offices	↓	Analyze FT + Mastic
✓ FT-16-48	upper level Second Floor - all rms except bathroom (btm layer)	↓	(if present)



✓ = TEM

* Run PLM + TEM Simultaneously *

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Lab Order ID:

Client Code:

71971372

Warehouse 4

Sample ID #	Specific Location	Volume/Area	Comments
P-17-49	White plaster w/ gray over coating	~1,000 SF	* Analyze plaster
P-17-50	Middle offices brick (skim + base)	↓	only * both layers
P-17-51	First + Second Floors Walls (coats)	↓	↓
FT-18-52	rust colored gray floor	~1,320 SF	Analyze FT + Mastic
FT-18-53	tile & associated black mastic;	↓	(if present)
✓ FT-18-54	middle offices 1st floor (bim layer)	↓	↓
FT-19-55	tan w/ brown streak floor tile	~1,320 SF	↓
FT-19-56	+ associated red yellow mastic; middle	↓	↓
✓ FT-19-57	offices 1st floor (top layer)	↓	↓
BBI-20-58	black batt insulation w/ pink rock ^{Hall}	~1,000 SF	Analyze black batt
BBI-20-59	fiberglass #2 middle offices First	↓	only
✓ BBI-20-60	floor walls behind wood paneling	↓	↓
G-21-61	rust colored gaskets on various	All gaskets on	Analyze gasket only
G-21-62	↓ size flanges	process system	↓
✓ G-21-63	↓	flanges	↓
TSI-22-64	thermal system insulation small	Process System	Analyze TSI only
TSI-22-65	diameter; straight run	Lines	↓
TSI-23-66	↓	↓	↓
TSI-23-67	thermal system insulation medium	↓	↓
TSI-23-68	diameter; straight run	↓	↓
TSI-23-69	↓	↓	↓
TSI-24-70	thermal system insulation large	↓	↓
TSI-24-71	diameter; straight run	↓	↓
TSI-24-72	↓	↓	↓
HJ-25-73	white hard joint, small diameter	Process System	Analyze TSI + Wrap
HJ-25-74	↓	Lines	only
HJ-25-75	↓	↓	↓
HJ-26-76	white & gray hard joint, medium	↓	↓
HJ-26-77	diameter	↓	↓
HJ-26-78	↓	↓	↓
HJ-27-79	white & dark gray hard joint,	↓	↓
HJ-27-80	large diameter	↓	↓
HJ-27-81	↓	↓ 37,000	↓
FB-28-82	red brick located behind	~8,100 SF	Analyze brick only
FB-28-83	cream brick	↓	↓
FB-28-84	cream	↓	↓

→ map



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971447

Analysis ID: 71971447_TB

Date Received: 7/30/2021

Date Reported: 8/6/2021

Project: PPOE00521 Warehouse 9

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
Lab Sample ID	Lab Notes	(Wt. %)	(Wt. %)	(Wt. %)	(Wt. %)
M-1-3	Stair mastic - on stairs in space	51%	-	None Detected	
71971447TBS_1					
FT-2-6-a	12x12 Dark striped floor tile, space 1 2nd floor	46%	45%	None Detected	
71971447TBS_2	self stick tile				
CM-3-9	Carpet mastic under dark brown carpet space1, 1st fl rm 3	48%	-	None Detected	
71971447TBS_3					
FT-4-12-a	Beige w/ dark speckled 12x12 floor tile space 1, 1st floor, minus bathrooms	28%	47%	None Detected	
71971447TBS_4	tile				
FT-4-12-b	Beige w/ dark speckled 12x12 floor tile space 1, 1st floor, minus bathrooms	44%	-	None Detected	
71971447TBS_15	mastic				
BBI-6-18	Black batt insulation w/ pink fiberglass entirety of space 1 walls & ceilings	92%	-	None Detected	
71971447TBS_5					

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Russell Shelton (19)

Analyst

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

Approved Signatory



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971447

Analysis ID: 71971447_TB

Date Received: 7/30/2021

Date Reported: 8/6/2021

Project: PPOE00521 Warehouse 9

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes			(Wt. %)		(Wt. %)
FT-15-45-a	9x9 Black floor tile space 3 (lab 1&2, rms 1, 2, 3, 4)	31%	49%	12 %	Chrysotile	11% - 13%
71971447TBS_6	tile					
FT-15-45-b	9x9 Black floor tile space 3 (lab 1&2, rms 1, 2, 3, 4)	92%	-	0.25 %	Chrysotile	0.22% - 0.27%
71971447TBS_16	mastic					
BBI-16-48	Tan black batt insulation above ceiling space 3 (lab 1&2, rms 1, 2 3&4)	90.0%	-	None Detected		
71971447TBS_7						
FT-18-53-a	12x12 Cream floor tile & mastic rms 5, 6, 7, 8, 9, 10, 11, 12, 13, (space 3) hall	25%	54%	4.2 %	Chrysotile	3.8% - 4.6%
71971447TBS_8	tile					
FT-18-53-b	12x12 Cream floor tile & mastic rms 5, 6, 7, 8, 9, 10, 11, 12, 13, (space 3) hall	66%	-	None Detected		
71971447TBS_17	mastic					
M-21-63	White mastic on HVAC ductwork o/s of conference rm	35%	-	None Detected		
71971447TBS_9						

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Approved Signatory



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971447

Analysis ID: 71971447_TB

Date Received: 7/30/2021

Date Reported: 8/6/2021

Project: PPOE00521 Warehouse 9

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
Lab Sample ID	Lab Notes	(Wt. %)	(Wt. %)	(Wt. %)	(Wt. %)
FT-22-66-a	12x12 Brown mottled floor tile & associated mastic, space 3 conference rm	33%	56%	None Detected	
71971447TBS_10	tile				
FT-22-66-b	12x12 Brown mottled floor tile & associated mastic, space 3 conference rm	42%	-	None Detected	
71971447TBS_18	mastic				
M-23-69	Brown mastic i/s of HVAC unit adjacent to conference rm	47%	-	None Detected	
71971447TBS_11					
FT-26-78-a	Beige floor tile 12x12 space 4 & associated mastic	28%	62%	None Detected	
71971447TBS_12	tile				
FT-26-78-b	Beige floor tile 12x12 space 4 & associated mastic	37%	-	None Detected	
71971447TBS_19	mastic				
C-27-81	Silver caulk around 3 blower fans on northern wall space 2	81%	-	None Detected	
71971447TBS_13					

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Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971447

Analysis ID: 71971447_TB

Date Received: 7/30/2021

Date Reported: 8/6/2021

Project: PPOE00521 Warehouse 9

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
<i>Lab Sample ID</i>	<i>Lab Notes</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>
FL-30-90	Black flashing on HVAC exterior shed adjacent to space 1	65%	-	None Detected	
71971447TBS_14					

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Lab Use Only

Lab Order ID:

Client Code:

11971447

Company Contact Information	
Company: GEL Engineering, LLC	Contact: Ron Sharpe/Sarah Browning
Address: 2040 Savage Road	Phone <input type="checkbox"/> : 843/769-7376
Charleston, SC 29407	Fax <input type="checkbox"/> : 843/769-7397
	Email <input checked="" type="checkbox"/> : ron.sharpe@gel.com
	sarah.browning@gel.com
Billing/Invoice Information	
Company:	90 Min. <input type="checkbox"/> 48 Hours <input type="checkbox"/>
Contact: Same	3 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>
Address: AS	6 Hours <input type="checkbox"/> 96 Hours <input type="checkbox"/>
Above	12 Hours <input type="checkbox"/> 120 Hours <input checked="" type="checkbox"/>
	24 Hours <input type="checkbox"/> 144+ Hours <input type="checkbox"/>

Asbestos Test Types	
PLM EPA 600/R-93/116 (PLM)	<input checked="" type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/> TWA (PTA) <input type="checkbox"/>	
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input checked="" type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other:	<input type="checkbox"/>

PO Number:

Project Name/Number: PPOE00521

Warehouse 9 (7/28/21)

✓ = TEM

* Run PLM+TEM simultaneously *

Sample ID #	Description/Location	Volume/Area	Comments
M-1-1	stair mastic - on stairs in space	~ 45 SF	Analyze mastic
M-1-2	1	↓	only ↓
✓ M-1-3	↓	↓	↓
FT-2-4	12x12 dark striped floor	~ 600 SF	Analyze floor tile
FT-2-5	tile, space 1 2nd floor	↓	+ mastic (if present)
✓ FT-2-6	↓	↓	↓
CM-3-7	carpet mastic under dark brown	~ 144 SF	Analyze mastic
CM-3-8	carpet space 1, 1st fl rm 3	↓	only ↓
✓ CM-3-9	↓	↓	↓
FT-4-10	12x12 beige w/ dark speckled floor tile	~ 760 SF	Analyze floor tile
FT-4-11	space 1, 1st floor, minus bathrooms	↓	+ mastic (if present)
✓ FT-4-12	↓	↓	Total # of Samples _____

Relinquished by	Date/Time	Received by	Date/Time
2222 ndw	7/29/21 1200	B. Bully	7/30 1030A



* Run PLM+ TEM simultaneously *

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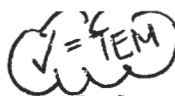
Lab Use Only

Lab Order ID:

Client Code:

110711441

Sample ID #	Specific Location	Volume/Area	Comments
S-5-13	white surfacing behind ceramic tile	~400 SF	Analyze surfacing only
S-5-14	walls in space 1 bathrooms	↓	↓
S-5-15	↓	↓	↓
BBI-6-16	black batt insulation w/ pink fiberglass ^{entirety of} space 1 walls + ceilings	~2,300 SF	Analyze black batt only
BBI-6-17	↓	↓	↓
BBI-6-18	↓	↓	↓
CT-7-19	2x4 wormhole ceiling tile	~340 SF	Analyze ceiling tile only
CT-7-20	space 1, 1st fl, rm 3+4 only	↓	↓
CT-7-21	↓	↓	↓
HJ-8-22	TSI hard joint small diameter	All process system lines	Analyze all TSI materials on process system lines
HJ-8-23	↓	↓	↓
HJ-8-24	↓	↓	↓
CW-9-25	beige canvas wrap thermal system insulation medium diameter	Majority of process system lines	↓
CW-9-26	straight line ↓	↓	↓
CW-9-27	↓	↓	↓
TSI-10-28	thermal system insulation large diameter straight line along west wall	~120 LF	↓
TSI-10-29	↓	↓	↓
TSI-10-30	↓	↓	↓
HJ-11-31	TSI hard joint large diameter in NW corner	One hard joint observed	↓
HJ-11-32	↓	↓	↓
HJ-11-33	↓	↓	↓
CW-12-34	canvas wrap small diameter straight line + thermal system insul.	Majority of process system lines	↓
CW-12-35	↓	↓	↓
CW-12-36	↓	↓	↓
HJ-13-37	hard joint TSI medium diameter	All process system lines	↓
HJ-13-38	↓	↓	↓
HJ-13-39	↓	↓	↓
FH-14-40	canvas wrap fire hose	Fire hoses	Analyze fire hose only
FH-14-41	↓	↓	↓
FH-14-42	↓	↓	↓
FT-15-43	9x9 black floor tile space 3 (lab 1+2, Rms 1, 2, 3, 4)	~1,900 SF	Analyze floor tile + mastic
FT-15-44	↓	↓	↓
FT-15-45	↓	↓	↓
BBI-16-46	tan black batt insulation above ceiling space 3 (lab 1+2, Rms 1, 2, 3+4)	~1,900 SF	Analyze black batt only
BBI-16-47	↓	↓	↓
BBI-16-48	↓	↓	↓



* Run PLM+TEM simultaneously *

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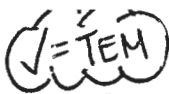
Lab Use Only

Lab Order ID:

Client Code:

11911447

Sample ID #	Specific Location	Volume/Area	Comments
LC-17-49	black lab countertops - one Lab 1	Four counters	Analyze countertop
LC-17-50	two in Lab 2 & one outside RM 4 by HVAC		only
LC-17-51	4 counters	↓	↓
FT-18-52	12x12 Cream floor tile & mastic	~1,900 SF	Analyze tile &
FT-18-53	Rms 5, 6, 7, 8, 9, 10, 11, 12, 13, (space 3)	↓	mastic (if present)
✓ FT-18-54	space 3 Hall	↓	↓
CT-19-55	1x1 wormhole ceiling tile	~530 SF	Analyze ceiling tile
CT-19-56	space 3 Rm 5	↓	only ↓
CT-19-57	↓	↓	↓
VD-20-58	light brown vibration dampener	1 unit	Analyze dampener
VD-20-59	space 3 second floor	↓	only
VD-20-60	↓	↓	↓
M-21-61	white mastic on HVAC ductwork	~5 SF	Analyze mastic
✓ M-21-62	ols of conference rm	↓	only ↓
✓ M-21-63	↓	↓	↓
FT-22-64	12x12 brown matted floor tile &	~360 SF	Analyze tile &
FT-22-65	associated mastic, space 3	↓	mastic (if present)
✓ FT-22-66	conference rm	↓	↓
M-23-67	brown mastic i/s of HVAC Unit	~20 SF	Analyze mastic
M-23-68	adjacent to conference rm	↓	only ↓
✓ M-23-69	↓	↓	↓
I-24-70	beige canvas wrap & insulation	~160 SF	Analyze all TSI present
I-24-71	around HVAC ductwork ols	↓	↓
I-24-72	of labs in ↓ space 2	↓	↓
VD-25-73	black vibration dampener	1 unit	Analyze dampener
VD-25-74	around ductwork in area space 2	↓	only
VD-25-75	adjacent to lab	↓	↓
FT-26-76	beige floor tile 12x12 space 4	~121 SF	Analyze floor tile
FT-26-77	& associated mastic	↓	& mastic (if present)
✓ FT-26-78	↓	↓	↓
C-27-79	silver caulk around 3 blower	~40 LF	Analyze caulk
C-27-80	fans on northern wall space 2	↓	only ↓
✓ C-27-81	plot loading areas	↓	↓
DW-28-82	drywall & joint compound	~400 SF	Analyze DW+JC only
DW-28-83	space 1, 1 st fl; bathrooms &	↓	↓
DW-28-84	rm 3 & 4	↓	↓
FB-29-85	cream brick space 2	~14,500 SF	Analyze brick only
FB-29-86	N, E, W walls	↓	↓
FB-29-87			



Scientific Analytical Institute

lab@sailab.com

Client Code: _____

1197144-

Page 4 of 4



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971437
Analysis ID: 71971437_PLM
Date Received: 7/30/2021
Date Reported: 8/6/2021

Project: PPOE00521 Warehouse 9

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
M-1-1	Stair mastic - on stairs in space	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971437PLM_1					Dissolved
M-1-2	Stair mastic - on stairs in space	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971437PLM_2					Dissolved
M-1-3	Stair mastic - on stairs in space	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971437PLM_3					Dissolved
FT-2-4 - A	12x12 Dark striped floor tile, space 1 2nd floor	None Detected		100% Other	Beige Non Fibrous Homogeneous
71971437PLM_4	tile				Dissolved
FT-2-4 - B	12x12 Dark striped floor tile, space 1 2nd floor	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971437PLM_91	mastic				Dissolved
FT-2-5 - A	12x12 Dark striped floor tile, space 1 2nd floor	None Detected		100% Other	Beige Non Fibrous Homogeneous
71971437PLM_5	tile				Dissolved
FT-2-5 - B	12x12 Dark striped floor tile, space 1 2nd floor	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971437PLM_92	mastic				Dissolved
FT-2-6	12x12 Dark striped floor tile, space 1 2nd floor	Not Analyzed			
71971437PLM_6	TEM				

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Charmel Dozier (118)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971437
Analysis ID: 71971437_PLM
Date Received: 7/30/2021
Date Reported: 8/6/2021

Project: PPOE00521 Warehouse 9

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CM-3-7	Carpet mastic under dark brown carpet space 1, 1st fl rm 3	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971437PLM_7					Dissolved
CM-3-8	Carpet mastic under dark brown carpet space 1, 1st fl rm 3	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971437PLM_8					Dissolved
CM-3-9	Carpet mastic under dark brown carpet space 1, 1st fl rm 3	Not Analyzed			
71971437PLM_9					
FT-4-10 - A	Beige w dark speckled 12x12 floor tile space 1, 1st floor, minus bathrooms	3% Chrysotile		97% Other	Beige Non Fibrous Homogeneous
71971437PLM_10	tile				Dissolved
FT-4-10 - B	Beige w dark speckled 12x12 floor tile space 1, 1st floor, minus bathrooms	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971437PLM_93	mastic				Dissolved
FT-4-11 - A	Beige w dark speckled 12x12 floor tile space 1, 1st floor, minus bathrooms	3% Chrysotile		97% Other	Beige Non Fibrous Homogeneous
71971437PLM_11	tile				Dissolved
FT-4-11 - B	Beige w dark speckled 12x12 floor tile space 1, 1st floor, minus bathrooms	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971437PLM_94	mastic				Dissolved
FT-4-12	Beige w dark speckled 12x12 floor tile space 1, 1st floor, minus bathrooms	Not Analyzed			
71971437PLM_12	TEM				

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
S-5-13	White surfacing behind ceramic tile walls in space 1 bathrooms	None Detected		100% Other	White Non Fibrous Heterogeneous
71971437PLM_13					Crushed
S-5-14	White surfacing behind ceramic tile walls in space 1 bathrooms	None Detected		100% Other	White Non Fibrous Homogeneous
71971437PLM_14					Crushed
S-5-15	White surfacing behind ceramic tile walls in space 1 bathrooms	None Detected		100% Other	White Non Fibrous Homogeneous
71971437PLM_15					Crushed
BBI-6-16	Black batt insulation w/ pink fiberglass entirety of space 1 walls & ceilings	None Detected		100% Other	Black Non Fibrous Homogeneous
71971437PLM_16					Dissolved
BBI-6-17	Black batt insulation w/ pink fiberglass entirety of space 1 walls & ceilings	None Detected		100% Other	Black Non Fibrous Homogeneous
71971437PLM_17					Dissolved
BBI-6-18	Black batt insulation w/ pink fiberglass entirety of space 1 walls & ceilings	Not Analyzed			
71971437PLM_18	TEM				
CT-7-19	2x4 Wormhole ceiling tile space 1, 1st fl, rm 3&4 only	None Detected	50% Cellulose 20% Fiber Glass	30% Other	Tan Fibrous Homogeneous
71971437PLM_19					Teased
CT-7-20	2x4 Wormhole ceiling tile space 1, 1st fl, rm 3&4 only	None Detected	50% Cellulose 20% Fiber Glass	30% Other	Tan Fibrous Homogeneous
71971437PLM_20					Teased

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CT-7-21	2x4 Wormhole ceiling tile space 1, 1st fl, rm 3&4 only	None Detected	50% Cellulose 20% Fiber Glass	30% Other	Tan Fibrous Homogeneous
71971437PLM_21					Teased
HJ-8-22	TSI hard joint small diameter	10% Chrysotile	25% Fiber Glass 10% Cellulose	55% Other	Gray Fibrous Homogeneous
71971437PLM_22	unable to separate wrap				Teased
HJ-8-23	TSI hard joint small diameter	10% Chrysotile	25% Fiber Glass 10% Cellulose	55% Other	Gray Fibrous Homogeneous
71971437PLM_23	unable to separate wrap				Teased
HJ-8-24 - A	TSI hard joint small diameter	None Detected	80% Cellulose	20% Other	Gray Fibrous Homogeneous
71971437PLM_24	wrap				Ashed
HJ-8-24 - B	TSI hard joint small diameter	None Detected	25% Fiber Glass	75% Other	Gray Fibrous Homogeneous
71971437PLM_95	insulation				Teased
CW-9-25 - A	Beige canvas wrap & termal system insallation medium diameter straight line	None Detected	80% Cellulose	20% Other	Beige Fibrous Homogeneous
71971437PLM_25	wrap				Ashed
CW-9-25 - B	Beige canvas wrap & termal system insallation medium diameter straight line	None Detected	25% Cellulose	75% Other	Gray Fibrous Homogeneous
71971437PLM_96	insulation				Teased
CW-9-26 - A	Beige canvas wrap & termal system insallation medium diameter straight line	None Detected	80% Cellulose	20% Other	Beige Fibrous Homogeneous
71971437PLM_26	wrap				Ashed

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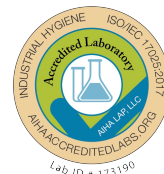
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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CW-9-26 - B	Beige canvas wrap & termal system insallation medium diameter straight line	None Detected	25% Cellulose	75% Other	Gray Fibrous Homogeneous
71971437PLM_97	insulation				Teased
CW-9-27 - A	Beige canvas wrap & termal system insallation medium diameter straight line	None Detected	80% Cellulose	20% Other	Beige Fibrous Homogeneous
71971437PLM_27	wrap				Ashed
CW-9-27 - B	Beige canvas wrap & termal system insallation medium diameter straight line	None Detected	25% Cellulose	75% Other	Gray Fibrous Homogeneous
71971437PLM_98	insulation				Teased
TSI-10-28 - A	Thermal system insallation large diameter straight line along west wall	None Detected	90% Cellulose	10% Other	Beige Fibrous Homogeneous
71971437PLM_28	wrap				Ashed
TSI-10-28 - B	Thermal system insallation large diameter straight line along west wall	None Detected	10% Synthetic Fibers	90% Other	Gray Fibrous Homogeneous
71971437PLM_99	insulation				Teased
TSI-10-29 - A	Thermal system insallation large diameter straight line along west wall	None Detected	90% Cellulose	10% Other	Beige Fibrous Homogeneous
71971437PLM_29	wrap				Ashed
TSI-10-29 - B	Thermal system insallation large diameter straight line along west wall	None Detected	10% Synthetic Fibers	90% Other	Gray Fibrous Homogeneous
71971437PLM_100	insulation				Teased
TSI-10-30	Thermal system insallation large diameter straight line along west wall	15% Amosite 10% Chrysotile	20% Cellulose	55% Other	Gray Fibrous Homogeneous
71971437PLM_30	unable to separate wrap				Teased

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
HJ-11-31	TSI hard joint large diameter in NW corner	15% Amosite 3% Crocidolite 2% Chrysotile	10% Cellulose	70% Other	Gray Fibrous Homogeneous
71971437PLM_31	unable to separate wrap				Teased
HJ-11-32 - A	TSI hard joint large diameter in NW corner	17% Amosite 3% Crocidolite	15% Cellulose	65% Other	Gray Fibrous Homogeneous
71971437PLM_32	insulation 1; unable to separate wrap				Teased
HJ-11-32 - B	TSI hard joint large diameter in NW corner	35% Chrysotile		65% Other	Tan Fibrous Homogeneous
71971437PLM_101	insulation 2				Teased
HJ-11-33 - A	TSI hard joint large diameter in NW corner	20% Amosite 3% Crocidolite 2% Chrysotile	10% Cellulose	65% Other	Gray Fibrous Homogeneous
71971437PLM_33	insulation 1; unable to separate wrap				Teased
HJ-11-33 - B	TSI hard joint large diameter in NW corner	35% Chrysotile		65% Other	Gray Fibrous Homogeneous
71971437PLM_102	insulation 2				Teased
CW-12-34 - A	Canvas wrap small diameter straight line & thermal system insul	None Detected	90% Cellulose	10% Other	Gray Fibrous Homogeneous
71971437PLM_34	wrap				Teased
CW-12-34 - B	Canvas wrap small diameter straight line & thermal system insul	None Detected	20% Cellulose	80% Other	Gray Fibrous Homogeneous
71971437PLM_103	insulation				Teased
CW-12-35 - A	Canvas wrap small diameter straight line & thermal system insul	None Detected	90% Cellulose	10% Other	Gray Fibrous Homogeneous
71971437PLM_35	wrap				Teased

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CW-12-35 - B	Canvas wrap small diameter straight line & thermal system insul	None Detected	25% Cellulose	75% Other	Gray Fibrous Homogeneous
71971437PLM_104	insulation				Teased
CW-12-36 - A	Canvas wrap small diameter straight line & thermal system insul	None Detected	90% Cellulose	10% Other	Gray Fibrous Homogeneous
71971437PLM_36					Teased
CW-12-36 - B	Canvas wrap small diameter straight line & thermal system insul	None Detected	25% Cellulose	75% Other	Gray Fibrous Homogeneous
71971437PLM_105					Teased
HJ-13-37	Hard joint TSI medium diameter	10% Chrysotile	20% Fiber Glass 15% Cellulose	55% Other	Gray Fibrous Homogeneous
71971437PLM_37	unable to separate wrap				Teased
HJ-13-38	Hard joint TSI medium diameter	10% Chrysotile	20% Fiber Glass 15% Cellulose	55% Other	Gray Fibrous Homogeneous
71971437PLM_38	unable to separate wrap				Teased
HJ-13-39 - A	Hard joint TSI medium diameter	None Detected	90% Cellulose	10% Other	Gray Fibrous Homogeneous
71971437PLM_39	wrap				Teased
HJ-13-39 - B	Hard joint TSI medium diameter	None Detected	25% Fiber Glass	75% Other	Gray Fibrous Homogeneous
71971437PLM_106	insulation				Crushed
FH-14-40	Canvas wrap fire hose	None Detected	98% Synthetic Fibers	2% Other	White Fibrous Homogeneous
71971437PLM_40					Ashed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FH-14-41	Canvas wrap fire hose	None Detected	98% Synthetic Fibers	2% Other	White Fibrous Homogeneous
71971437PLM_41					Ashed
FH-14-42	Canvas wrap fire hose	None Detected	98% Synthetic Fibers	2% Other	White Fibrous Homogeneous
71971437PLM_42					Ashed
FT-15-43 - A	9x9 Black floor tile space 3 (lab 1&2, rms 1, 2, 3, 4)	5% Chrysotile		95% Other	Black Non Fibrous Homogeneous
71971437PLM_43	tile				Dissolved
FT-15-43 - B	9x9 Black floor tile space 3 (lab 1&2, rms 1, 2, 3, 4)	None Detected		100% Other	Black Non Fibrous Homogeneous
71971437PLM_107	mastic				Dissolved
FT-15-44 - A	9x9 Black floor tile space 3 (lab 1&2, rms 1, 2, 3, 4)	5% Chrysotile		95% Other	Black Non Fibrous Homogeneous
71971437PLM_44	tile				Dissolved
FT-15-44 - B	9x9 Black floor tile space 3 (lab 1&2, rms 1, 2, 3, 4)	None Detected		100% Other	Black Non Fibrous Homogeneous
71971437PLM_108	mastic				Dissolved
FT-15-45	9x9 Black floor tile space 3 (lab 1&2, rms 1, 2, 3, 4)	Not Analyzed			
71971437PLM_45	TEM				
BBI-16-46	Tan black batt insulation above ceiling space 3 (lab 1&2, rms 1, 2, 3&4)	None Detected		100% Other	Black Non Fibrous Homogeneous
71971437PLM_46					Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
BBI-16-47	Tan black batt insulation above ceiling space 3 (lab 1&2, rms 1, 2, 3&4)	None Detected		100% Other	Black Non Fibrous Homogeneous
71971437PLM_47					Dissolved
BBI-16-48	Tan black batt insulation above ceiling space 3 (lab 1&2, rms 1, 2, 3&4)	None Detected		100% Other	Black Non Fibrous Homogeneous
71971437PLM_48					Dissolved
LC-17-49	Black lab countertops - one lab 1 two in lab 2 & one outside rm 4 by HVAC 4 coun	None Detected		100% Other	Black Non Fibrous Homogeneous
71971437PLM_49					Crushed
LC-17-50	Black lab countertops - one lab 1 two in lab 2 & one outside rm 4 by HVAC 4 coun	None Detected		100% Other	Black Non Fibrous Homogeneous
71971437PLM_50					Crushed
LC-17-51	Black lab countertops - one lab 1 two in lab 2 & one outside rm 4 by HVAC 4 coun	None Detected		100% Other	Black Non Fibrous Homogeneous
71971437PLM_51					Crushed
FT-18-52	12x12 Cream floor tile & mastic rms 5, 6, 7, 8, 9, 10, 11, 12, 13, (space 3) hall	4% Chrysotile		96% Other	Cream Non Fibrous Homogeneous
71971437PLM_52	tile only				Dissolved
FT-18-53	12x12 Cream floor tile & mastic rms 5, 6, 7, 8, 9, 10, 11, 12, 13, (space 3) hall	4% Chrysotile		96% Other	Cream Non Fibrous Homogeneous
71971437PLM_53	tile only				Dissolved
FT-18-54	12x12 Cream floor tile & mastic rms 5, 6, 7, 8, 9, 10, 11, 12, 13, (space 3) hall	Not Analyzed			
71971437PLM_54	TEM				

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CT-19-55	1x1 Wormhole ceiling tile space 3 rm 5	None Detected	35% Cellulose 35% Fiber Glass	30% Other	Tan Fibrous Homogeneous
71971437PLM_55					Teased
CT-19-56	1x1 Wormhole ceiling tile space 3 rm 5	None Detected	35% Cellulose 35% Fiber Glass	30% Other	Tan Fibrous Homogeneous
71971437PLM_56					Teased
CT-19-57	1x1 Wormhole ceiling tile space 3 rm 5	None Detected	35% Cellulose 35% Fiber Glass	30% Other	Tan Fibrous Homogeneous
71971437PLM_57					Teased
VD-20-58	Light brown vibration dampener space 3 second floor	None Detected	80% Fiber Glass	20% Other	Tan Fibrous Homogeneous
71971437PLM_58					Ashed
VD-20-59	Light brown vibration dampener space 3 second floor	None Detected	80% Fiber Glass	20% Other	Tan Fibrous Homogeneous
71971437PLM_59					Ashed
VD-20-60	Light brown vibration dampener space 3 second floor	None Detected	80% Fiber Glass	20% Other	Tan Fibrous Homogeneous
71971437PLM_60					Ashed
M-21-61	White mastic on HVAC ductwork o/s of conference rm	None Detected		100% Other	White Non Fibrous Homogeneous
71971437PLM_61					Dissolved
M-21-62	White mastic on HVAC ductwork o/s of conference rm	None Detected		100% Other	White Non Fibrous Homogeneous
71971437PLM_62					Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
M-21-63	White mastic on HVAC ductwork o/s of conference rm	Not Analyzed			
71971437PLM_63	TEM				
FT-22-64 - A	12x12 Brown mottled floor tile & associated mastic, space 3 conference rm	5% Chrysotile		95% Other	Brown Non Fibrous Homogeneous
71971437PLM_64	tile				Dissolved
FT-22-64 - B	12x12 Brown mottled floor tile & associated mastic, space 3 conference rm	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971437PLM_109	mastic				Dissolved
FT-22-65 - A	12x12 Brown mottled floor tile & associated mastic, space 3 conference rm	5% Chrysotile		95% Other	Brown Non Fibrous Homogeneous
71971437PLM_65	tile				Dissolved
FT-22-65 - B	12x12 Brown mottled floor tile & associated mastic, space 3 conference rm	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971437PLM_110	mastic				Dissolved
FT-22-66	12x12 Brown mottled floor tile & associated mastic, space 3 conference rm	Not Analyzed			
71971437PLM_66	TEM				
M-23-67	Brown mastic i/s of HVAC unit adjacent to conference rm	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971437PLM_67					Dissolved
M-23-68	Brown mastic i/s of HVAC unit adjacent to conference rm	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971437PLM_68					Dissolved

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Charmel Dozier (118)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971437
Analysis ID: 71971437_PLM
Date Received: 7/30/2021
Date Reported: 8/6/2021

Project: PPOE00521 Warehouse 9

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
M-23-69	Brown mastic i/s of HVAC unit adjacent to conference rm	Not Analyzed			
71971437PLM_69	TEM				
I-24-70 - A	Beige canvas wrap & insulation around HVAC ductwork o/s of labs in space 2	None Detected	90% Cellulose	10% Other	Gray Fibrous Homogeneous
71971437PLM_70	wrap				Teased
I-24-70 - B	Beige canvas wrap & insulation around HVAC ductwork o/s of labs in space 2	None Detected	25% Fiber Glass	75% Other	Gray Fibrous Homogeneous
71971437PLM_111	insulation				Teased
I-24-71 - A	Beige canvas wrap & insulation around HVAC ductwork o/s of labs in space 2	None Detected	90% Cellulose	10% Other	Gray Fibrous Homogeneous
71971437PLM_71	wrap				Teased
I-24-71 - B	Beige canvas wrap & insulation around HVAC ductwork o/s of labs in space 2	None Detected	25% Fiber Glass	75% Other	Gray Fibrous Homogeneous
71971437PLM_112	insulation				Teased
I-24-72 - A	Beige canvas wrap & insulation around HVAC ductwork o/s of labs in space 2	None Detected	90% Cellulose	10% Other	Gray Fibrous Homogeneous
71971437PLM_72	wrap				Teased
I-24-72 - B	Beige canvas wrap & insulation around HVAC ductwork o/s of labs in space 2	None Detected	25% Fiber Glass	75% Other	Gray Fibrous Homogeneous
71971437PLM_113	insulation				Teased
VD-25-73	Black vibration dampener around duct HVAC work in space 2 adjacent to lab	None Detected	70% Fiber Glass	30% Other	Black Fibrous Homogeneous
71971437PLM_73					Ashed

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Project: PPOE00521 Warehouse 9

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
VD-25-74	Black vibration dampener around duct HVAC work in space 2 adjacent to lab	None Detected	70% Fiber Glass	30% Other	Black Fibrous Homogeneous
71971437PLM_74					Ashed
VD-25-75	Black vibration dampener around duct HVAC work in space 2 adjacent to lab	None Detected	70% Fiber Glass	30% Other	Black Fibrous Homogeneous
71971437PLM_75					Ashed
FT-26-76 - A	Beige floor tile 12x12 space 4 & associated mastic	None Detected		100% Other	Beige Non Fibrous Homogeneous
71971437PLM_76	tile				Dissolved
FT-26-76 - B	Beige floor tile 12x12 space 4 & associated mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971437PLM_114	mastic				Dissolved
FT-26-77 - A	Beige floor tile 12x12 space 4 & associated mastic	None Detected		100% Other	Beige Non Fibrous Homogeneous
71971437PLM_77	tile				Dissolved
FT-26-77 - B	Beige floor tile 12x12 space 4 & associated mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971437PLM_115	mastic				Dissolved
FT-26-78	Beige floor tile 12x12 space 4 & associated mastic	Not Analyzed			
71971437PLM_78	TEM				
C-27-79	Silver caulk around 3 blower fans on northern wall space 2	None Detected		100% Other	Silver Non Fibrous Homogeneous
71971437PLM_79					Dissolved

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Analysis ID: 71971437_PLM
Date Received: 7/30/2021
Date Reported: 8/6/2021

Project: PPOE00521 Warehouse 9

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
C-27-80	Silver caulk around 3 blower fans on northern wall space 2	None Detected		100% Other	Silver Non Fibrous Homogeneous
71971437PLM_80					Dissolved
C-27-81	Silver caulk around 3 blower fans on northern wall space 2	Not Analyzed			
71971437PLM_81	TEM				
DW-28-82 - A	Drywall & joint compound space 1, 1st fl, bathrooms & rm 3&4	None Detected	15% Cellulose	85% Other	White, Tan Fibrous Homogeneous
71971437PLM_82	drywall				Crushed
DW-28-82 - B	Drywall & joint compound space 1, 1st fl, bathrooms & rm 3&4	None Detected		100% Other	White Non Fibrous Homogeneous
71971437PLM_116	joint compound				Crushed
DW-28-83 - A	Drywall & joint compound space 1, 1st fl, bathrooms & rm 3&4	None Detected	15% Cellulose	85% Other	White, Tan Fibrous Homogeneous
71971437PLM_83	drywall				Crushed
DW-28-83 - B	Drywall & joint compound space 1, 1st fl, bathrooms & rm 3&4	3% Chrysotile		97% Other	Tan Non Fibrous Homogeneous
71971437PLM_117	joint compound				Crushed
DW-28-84 - A	Drywall & joint compound space 1, 1st fl, bathrooms & rm 3&4	None Detected	15% Cellulose	85% Other	White, Tan Fibrous Homogeneous
71971437PLM_84	drywall				Crushed
DW-28-84 - B	Drywall & joint compound space 1, 1st fl, bathrooms & rm 3&4	None Detected		100% Other	White Non Fibrous Homogeneous
71971437PLM_118	joint compound				Crushed

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Analysis ID: 71971437_PLM
Date Received: 7/30/2021
Date Reported: 8/6/2021

Project: PPOE00521 Warehouse 9

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FB-29-85	Cream brick space 2 N, E, W walls	None Detected		100% Other	Tan Non Fibrous Homogeneous
71971437PLM_85					Crushed
FB-29-86	Cream brick space 2 N, E, W walls	None Detected		100% Other	Tan Non Fibrous Homogeneous
71971437PLM_86					Crushed
FB-29-87	Cream brick space 2 N, E, W walls	None Detected		100% Other	Tan Non Fibrous Homogeneous
71971437PLM_87					Crushed
FL-30-88	Black flashing on HVAC exterior shed adjacent to space 1	12% Chrysotile		88% Other	Black Non Fibrous Homogeneous
71971437PLM_88					Dissolved
FL-30-89	Black flashing on HVAC exterior shed adjacent to space 1	12% Chrysotile		88% Other	Black Non Fibrous Homogeneous
71971437PLM_89					Dissolved
FL-30-90	Black flashing on HVAC exterior shed adjacent to space 1	Not Analyzed			
71971437PLM_90					

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Lab Use Only
Lab Order ID: 11971427
Client Code: _____

Company Contact Information

Company: GEL Engineering, LLC	Contact: Ron Sharpe/Sarah Browning
Address: 2040 Savage Road	Phone <input type="checkbox"/> : 843/769-7376
Charleston, SC 29407	Fax <input type="checkbox"/> : 843/769-7397
	Email <input checked="" type="checkbox"/> : ronald.sharpe@gel.com
	sarah.browning@gel.com

Billing/Invoice Information

Company:	90 Min. <input type="checkbox"/>	48 Hours <input type="checkbox"/>
Contact: Same	3 Hours <input type="checkbox"/>	72 Hours <input type="checkbox"/>
Address: AS	6 Hours <input type="checkbox"/>	96 Hours <input type="checkbox"/>
Above	12 Hours <input type="checkbox"/>	120 Hours <input checked="" type="checkbox"/>
	24 Hours <input type="checkbox"/>	144+ Hours <input type="checkbox"/>

Turn Around Times

Asbestos Test Types

PLM EPA 600/R-93/116 (PLM)	<input checked="" type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/> TWA (PTA) <input type="checkbox"/>	
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input checked="" type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>

PO Number:

Project Name/Number: PPOE00521 Warehouse 9 (7/28/21)

✓ = TEM

* Run PLM+TEM simultaneously *

Sample ID #	Description/Location	Volume/Area	Comments
M-1-1	stair mastic - on stairs in space	~45 SF	Analyze mastic
M-1-2	1 ↓	↓	only ↓
M-1-3	↓	↓	↓
FT-2-4	12x12 dark striped floor	~600 SF	Analyze floor tile
FT-2-5	tile, space 1 2nd floor	↓	+ mastic (if present)
FT-2-6	↓	↓	↓
CM-3-7	carpet mastic under dark brown	~144 SF	Analyze mastic
CM-3-8	carpet space 1, 1st fl rm 3	↓	only ↓
CM-3-9	↓	↓	↓
FT-4-10	beige w/ dark speckled floor tile	~760 SF	Analyze floor tile
FT-4-11	space 1, 1st floor, minus bathrooms	↓	+ mastic (if present)
FT-4-12	↓	↓	Total # of Samples _____

Relinquished by	Date/Time	Received by	Date/Time
222 ndw	7/29/21 1200	B. Bulley	7/30 10 ³⁰ A



✓ = TEM

* Run PLM + TEM simultaneously *

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Lab Use Only

Lab Order ID: _____

Client Code: _____

Sample ID #	Specific Location	Volume/Area	Comments
S-5-13	white surfacing behind ceramic tile	~ 400 SF	Analyze surfacing only
S-5-14	walls in space 1 bathrooms	↓	↓
S-5-15	↓	↓	↓
BBI-6-16	black batt insulation w/ pink fiberglass entirety of space 1 walls & ceilings	~ 2,300 SF	Analyze black batt only
BBI-6-17	↓	↓	↓
✓ BBI-6-18	↓	↓	↓
CT-7-19	2x4 wormhole ceiling tile	~ 340 SF	Analyze ceiling tile only
CT-7-20	space 1, 1st fl, rm 3 & 4 only	↓	↓
CT-7-21	↓	↓	↓
HJ-8-22	TSI hard joint small diameter	All process system lines	Analyze all TSI materials on process system lines
HJ-8-23	↓	↓	↓
HJ-8-24	↓	↓	↓
CW-9-25	beige canvas wrap thermal system insulation medium diameter	Majority of process system lines	
CW-9-26	straight line ↓	↓	
CW-9-27	↓	↓	
TSI-10-28	thermal system insulation large diameter straight line along west wall	~ 120 LF	
TSI-10-29	↓	↓	
TSI-10-30	↓	↓	
HJ-11-31	TSI hard joint large diameter in NW corner	One hard joint observed	
HJ-11-32	↓	↓	
HJ-11-33	↓	↓	
CW-12-34	canvas wrap small diameter	Majority of process system lines	
CW-12-35	straight line + thermal system insul.	↓	
CW-12-36	↓	↓	
HJ-13-37	hard joint TSI medium diameter	All process system lines	
HJ-13-38	↓	↓	
HJ-13-39	↓	↓	
FH-14-40	canvas wrap fire hose	Fire hoses	Analyze Fire hose only
FH-14-41	↓	↓	↓
FH-14-42	↓	↓	↓
FT-15-43	9x9 black floor tile space 3 (lab 1 & 2, Rms 1, 2, 3, 4)	~ 1,900 SF	Analyze floor tile & mastic
FT-15-44	↓	↓	↓
✓ FT-15-45	↓	↓	↓
BBI-16-46	tan black batt insulation above ceiling space 3 (lab 1 & 2, Rms 1, 2 & 3 & 4)	~ 1,900 SF	Analyze black batt only
BBI-16-47	↓	↓	↓
✓ BBI-16-48	↓	↓	↓



* Run PLM+TEM simultaneously *

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Lab Order ID: _____

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Sample ID #	Specific Location	Volume/Area	Comments
LC-17-49	black lab countertops - one Lab 1	Four counters	Analyze countertop
LC-17-50	two in Lab 2 & one outside RM 4 by HVAC		only
LC-17-51	4 counters	↓	↓
FT-18-52	12x12 Cream floor tile & mastic	~1,900 SF	Analyze tile &
FT-18-53	Rms 5, 6, 7, 8, 9, 10, 11, 12, 13, (space 3)	↓	mastic (if present)
✓ FT-18-54	space 3 Hall	↓	↓
CT-19-55	1x1 wormhole ceiling tile	~530 SF	Analyze ceiling tile
CT-19-56	space 3 Rm 5	↓	only ↓
CT-19-57	↓	↓	↓
VD-20-58	light brown vibration dampener	1 unit	Analyze dampener
VD-20-59	space 3 second floor	↓	only
VD-20-60	↓	↓	↓
M-21-61	white mastic on HVAC ductwork	~5 SF	Analyze mastic
✓ M-21-62	ols of conference rm	↓	only ↓
✓ M-21-63	↓	↓	↓
FT-22-64	12x12 brown matted floor tile &	~360 SF	Analyze tile &
FT-22-65	associated mastic, space 3	↓	mastic (if present)
✓ FT-22-66	conference rm	↓	↓
M-23-67	brown mastic i/s of HVAC Unit	~20 SF	Analyze mastic
M-23-68	adjacent to conference rm	↓	only ↓
✓ M-23-69	↓	↓	↓
I-24-70	beige canvas wrap & insulation	~160 SF	Analyze all TSI present
I-24-71	around HVAC ductwork ols	↓	↓
I-24-72	of labs in ↓ space 2	↓	↓
VD-25-73	black vibration dampener	1 unit	Analyze dampener
VD-25-74	around ductwork in area space 2	↓	only
VD-25-75	adjacent to lab	↓	↓
FT-26-76	beige floor tile 12x12 space 4	~121 SF	Analyze floor tile
FT-26-77	& associated mastic	↓	& mastic (if present)
✓ FT-26-78	↓	↓	↓
C-27-79	silver caulk around 3 blower	~40 LF	Analyze caulk
C-27-80	fans on northern wall space 2	↓	only ↓
✓ C-27-81	plaster bonding areas	↓	↓
DW-28-82	drywall & joint compound	~400 SF	Analyze DW+JC only
DW-28-83	space 1, 1 st fl, bathrooms &	↓	↓
DW-28-84	rm 3 & 4	↓	↓
FB-29-85	cream brick space 2	~14,500 SF	Analyze brick only
FB-29-86	N, E, W walls	↓	↓
FB-29-87		↓	↓



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Client Code: _____

Page 4 of 4



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971573

Analysis ID: 71971573_TB

Date Received: 8/2/2021

Date Reported: 8/9/2021

Project: PPIE00521 Warehouse 10

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
Lab Sample ID	Lab Notes	(Wt. %)	(Wt. %)	(Wt. %)	(Wt. %)
FT-4-14-a	12x12 Pink floor tile & associated yellow mastic; lobby, closet, hall1, hall 2	11%	88%	None Detected	
71971573TBS_1	tile				
FT-4-14-b	12x12 Pink floor tile & associated yellow mastic; lobby, closet, hall1, hall 2	80.0%	-	None Detected	
71971573TBS_13	mastic				
FM-5-17	Yellow mastic under brown carpet front office, rm 1, 2, 3	40.0%	-	None Detected	
71971573TBS_2					
BBI-6-20	Pink black batt insulation 1 behind drywalls & above ceiling in rm 3	90.0%	-	None Detected	
71971573TBS_3					
BBI-7-23	Pink black batt insulation 2 behind walls lobby, closet, front office, rm 1, hall 2	87%	-	None Detected	
71971573TBS_4					
BBI-8-26	Kraft paper (brown) around yellow fiberglass around HVAC ductwork (lobby, closet, frt office, rm 1)	96%	-	None Detected	
71971573TBS_5					

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Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

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Analysis ID: 71971573_TB

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Date Reported: 8/9/2021

Project: PPIE00521 Warehouse 10

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes			(Wt. %)		(Wt. %)
BBI-9-29	Silver kraft paper insulation w/ yellow fiberglass & mastic around HVAC ductwork	60. %	-	None Detected		
71971573TBS_6						
FT-10-32-a	9x9 Beige floor tiles & associated black mastic; HVAC room, rm 4 (btm layer)	31%	4.4%	19 %	Chrysotile	17% - 21%
71971573TBS_7	tile					
FT-10-32-b	9x9 Beige floor tiles & associated black mastic; HVAC room, rm 4 (btm layer)	64%	-	0.36 %	Chrysotile	0.33% - 0.40%
71971573TBS_14	mastic					
FT-11-35-a	12x12 Cream floor tile & associated mastic rm 4 (top layer)	8.7%	91%	None Detected		
71971573TBS_8	tile					
FT-11-35-b	12x12 Cream floor tile & associated mastic rm 4 (top layer)	51%	-	None Detected		
71971573TBS_15	mastic					
TB-12-38-a	4 in brown vinyl toeboard & associated mastic; bathrooms 3 & 4	39%	-	None Detected		
71971573TBS_9	toeboard					

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Date Reported: 8/9/2021

Project: PPIE00521 Warehouse 10

Sample ID	Description	Organic	Acid Sol.	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes	(Wt. %)	(Wt. %)	(Wt. %)		(Wt. %)
TB-12-38-b	4 in brown vinyl toeboard & associated mastic; bathrooms 3 & 4	49%	-	None Detected		
71971573TBS_16	mastic					
G-13-41	Red rubberized gaskets process line 5	41%	-	None Detected		
71971573TBS_10						
S-26-77	Black sealant on HVAC unit chilled water unit #2 in HVAC room	48%	-	16 %	Chrysotile	14% - 17%
71971573TBS_11						
C-27-80	White caulk around door - main entrance exterior	53%	-	2.4 %	Anthophyllite	2.1% - 2.6%
71971573TBS_12						

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Lab Use Only 11971573
Lab Order ID: _____
Client Code: _____

Company Contact Information

Company: ETL Engineering, LLC Contact: Ron Sharpe/Sarah Browning
Address: 2040 Savage Road Phone ☐: 843/769-7376
Charleston, SC 29407 Fax ☐: 843/769-7397
Email ☒: ronald.sharpe@etl.com
sarah.browning@etl.com

Billing/Invoice Information

Company: _____ 90 Min. ☐ 48 Hours ☐
Contact: Same 3 Hours ☐ 72 Hours ☐
Address: AS 6 Hours ☐ 96 Hours ☐
Above 12 Hours ☐ 120 Hours ☒
24 Hours ☐ 144+ Hours ☐

Turn Around Times

Asbestos Test Types

PLM EPA 600/R-93/116 (PLM) ☒
Positive stop ☐
PLM Point Count 400 (PT4) ☐
PLM Point Count 1000 (PTM) ☐
PCM NIOSH 7400-A Rules (PCM) ☐
B Rules (PCB) ☐ TWA (PTA) ☐
TEM AHERA (AHE) ☐
TEM Level II (LII) ☐
TEM NIOSH 7402 (TNI) ☐
TEM Bulk Qualitative (TBL) ☐
TEM Bulk Chatfield (TBS) ☒
TEM Bulk Quantitative (TBQ) ☐
TEM Wipe ASTM D6480-05 ☐
TEM Microvac ASTM D5755-02 ☐
TEM Water EPA 100.2 (TW1) ☐
Other: _____ ☐

PO Number: _____

Project Name/Number: PPOE00521 Warehouse 10 (7/29/21)

(V=TEM)

* Run PLM+TEM simultaneously *

Sample ID #	Description/Location	Volume/Area	Comments
P-1-1	Plaster	~ 3,800 SF	Analyze 5 ft m
P-1-2	lobby, closet, front office, Rm 1,		5 base coat
P-1-3	hall 1, half hall 2, HVAC rm, Rm 4,		
P-1-4	bath w/ ceiling, Rm 5 & 6 ceiling		
P-1-5			
DW-2-6	Drywall & joint compound	~ 700 SF	Analyze DW+JC only
DW-2-7	half hall 2, Rm 2, small drywall		
DW-2-8	divider in Rm 4		
CT-3-9	2x4 warehouse ceiling tile	~ 200 SF	Analyze ceiling
CT-3-10	bathroom 2, Rm 3, HVAC rm,		tile only
CT-3-11	Rm 4		

Total # of Samples 80

Relinquished by	Date/Time	Received by	Date/Time
<u>[Signature]</u>	<u>7/30/21 0800</u>	<u>[Signature]</u>	<u>8/2 1030A</u>

Accepted ☒

Rejected ☐



* Run PLM + TEM simultaneously *

Scientific Analytical Institute

4604 Dundas Drive Greensboro, NC 27407

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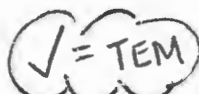
Lab Use Only

Lab Order ID:

Client Code:

11971573

Sample ID #	Specific Location	Volume/Area	Comments
FT-4-12	12x12 pink floor tile & associated yellow	~370 SF	Analyze tile &
FT-4-13	mastic; lobby, closet, hall 1,	↓	mastic (if present)
✓ FT-4-14	hall 2 ↓	↓	↓
CM-5-15	yellow mastic under brown carpet	~800 SF	Analyze mastic
CM-5-16	front office, Rm 1, 2, 3	↓	only ↓
✓ CM-5-17	↓	↓	↓
BBI-6-18	pink black batt insulation 1	~1,000 SF	Analyze black
✓ BBI-6-19	behind drywalls & above ceiling	↓	batt only
✓ BBI-6-20	in Rm 3 ↓	↓	↓
BBI-7-21	pink black batt insulation 2	~1,000 SF	Analyze black
BBI-7-22	behind walls lobby, closet,	↓	batt only
✓ BBI-7-23	front office, Rm 1, hall 2	↓	↓
✓ BBI-8-24	Kraft paper (brown) around yellow	~30 LF	Analyze Kraft
✓ BBI-8-25	fiberglass around HVAC ductwork	↓	paper only
✓ BBI-8-26	ductwork (lobby, closet, front office, Rm 1)	↓	↓
BBI-9-27	silver Kraft paper insulation w/	~150 LF	Analyze Kraft
✓ BBI-9-28	yellow fiberglass & mastic	↓	paper & mastic
✓ BBI-9-29	around HVAC ↓ ductwork	↓	only ↓
FT-10-30	9x9 beige floor tiles & associated	~360 SF	Analyze tile &
FT-10-31	black mastic; HVAC room,	↓	mastic only (if
✓ FT-10-32	Rm 4 (bottom layer)	↓	present) ↓
FT-11-33	12x12 cream floor tile &	~180 SF	Analyze tile &
FT-11-34	associated mastic Rm 4	↓	mastic only (if
✓ FT-11-35	(top layer) ↓	↓	present) ↓
TB-12-36	4 in brown vinyl tileboard &	~90 LF	Analyze tileboard
TB-12-37	associated mastic; bathrooms	↓	& mastic only
✓ TB-12-38	3+4 ↓	↓	↓
G-13-39	red rubberized gaskets	All gaskets	Analyze gasket only
✓ G-13-40	↓ process line 5	on Fire Dept	↓
G-13-41	↓	Water Pipes	↓
G-14-42	brittle gaskets	Gaskets on	↓
G-14-43	↓ process line 4	process system	↓
G-14-44	↓	lines	↓
CM-15-45	Cementitious material around	~20 SF	Analyze all components
CM-15-46	fan blower in NE corner	↓	↓
CM-15-47	↓	↓	↓
CW-16-48	beige canvas wrap around	~90 SF	Analyze canvas
CW-16-49	vertical box duct in middle of	↓	wrap only ↓
CW-16-50	warehouse	↓	↓



✓ = TEM * Run PLM + TEM simultaneously *

11971573

www.sailab.com

lab@sailab.com

Client Code:

✓ . ✓



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971572
Analysis ID: 71971572_PLM
Date Received: 8/2/2021
Date Reported: 8/11/2021

Project: PPOE00521 Warehouse 10

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
P-1-1 - A	Plaster lobby, closet, front office, rm 1, hall 1, half hall 2, HVAC rm, rm 4, bath 1, 3, 4, c	None Detected		100% Other	White Non Fibrous Homogeneous
71971572PLM_1	finish				Crushed
P-1-1 - B	Plaster lobby, closet, front office, rm 1, hall 1, half hall 2, HVAC rm, rm 4, bath 1, 3, 4, c	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71971572PLM_81	base				Crushed
P-1-2 - A	Plaster lobby, closet, front office, rm 1, hall 1, half hall 2, HVAC rm, rm 4, bath 1, 3, 4, c	None Detected		100% Other	White Non Fibrous Homogeneous
71971572PLM_2	finish				Crushed
P-1-2 - B	Plaster lobby, closet, front office, rm 1, hall 1, half hall 2, HVAC rm, rm 4, bath 1, 3, 4, c	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71971572PLM_82	base				Crushed
P-1-3 - A	Plaster lobby, closet, front office, rm 1, hall 1, half hall 2, HVAC rm, rm 4, bath 1, 3, 4, c	None Detected		100% Other	White Non Fibrous Homogeneous
71971572PLM_3	finish				Crushed
P-1-3 - B	Plaster lobby, closet, front office, rm 1, hall 1, half hall 2, HVAC rm, rm 4, bath 1, 3, 4, c	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71971572PLM_83	base				Crushed
P-1-4 - A	Plaster lobby, closet, front office, rm 1, hall 1, half hall 2, HVAC rm, rm 4, bath 1, 3, 4, c	None Detected		100% Other	White Non Fibrous Homogeneous
71971572PLM_4	finish				Crushed
P-1-4 - B	Plaster lobby, closet, front office, rm 1, hall 1, half hall 2, HVAC rm, rm 4, bath 1, 3, 4, c	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71971572PLM_84	base				Crushed

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Eloisa Blake (103)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



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Sarah Browning

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Project: PPOE00521 Warehouse 10

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
P-1-5 - A	Plaster lobby, closet, front office, rm 1, hall 1, half hall 2, HVAC rm, rm 4, bath 1, 3, 4, c	None Detected		100% Other	White Non Fibrous Homogeneous
71971572PLM_5	finish				Crushed
P-1-5 - B	Plaster lobby, closet, front office, rm 1, hall 1, half hall 2, HVAC rm, rm 4, bath 1, 3, 4, c	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71971572PLM_85	base				Crushed
DW-2-6 - A	Drywall & joint compound half hall 2, rm 2, small drywall divider in rm 4	None Detected	15% Cellulose	85% Other	Grayish Non Fibrous Heterogeneous
71971572PLM_6	drywall				Crushed
DW-2-6 - B	Drywall & joint compound half hall 2, rm 2, small drywall divider in rm 4	None Detected		100% Other	White Non Fibrous Homogeneous
71971572PLM_86	joint compound				Crushed
DW-2-7 - A	Drywall & joint compound half hall 2, rm 2, small drywall divider in rm 4	None Detected	15% Cellulose	85% Other	Grayish Non Fibrous Heterogeneous
71971572PLM_7	drywall				Crushed
DW-2-7 - B	Drywall & joint compound half hall 2, rm 2, small drywall divider in rm 4	None Detected		100% Other	White Non Fibrous Homogeneous
71971572PLM_87	joint compound				Crushed
DW-2-8 - A	Drywall & joint compound half hall 2, rm 2, small drywall divider in rm 4	None Detected	15% Cellulose	85% Other	Grayish Non Fibrous Heterogeneous
71971572PLM_8	drywall				Crushed
DW-2-8 - B	Drywall & joint compound half hall 2, rm 2, small drywall divider in rm 4	None Detected		100% Other	White Non Fibrous Homogeneous
71971572PLM_88	joint compound				Crushed

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Project: PPOE00521 Warehouse 10

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CT-3-9	2x4 Wormhole ceiling tile bathroom 2, rm 3, HVAC rm, rm 4	None Detected	40% Cellulose 40% Fiber Glass	20% Other	Grayish Fibrous Heterogeneous
71971572PLM_9					Teased, Crushed
CT-3-10	2x4 Wormhole ceiling tile bathroom 2, rm 3, HVAC rm, rm 4	None Detected	40% Cellulose 40% Fiber Glass	20% Other	Grayish Fibrous Heterogeneous
71971572PLM_10					Teased, Crushed
CT-3-11	2x4 Wormhole ceiling tile bathroom 2, rm 3, HVAC rm, rm 4	None Detected	40% Cellulose 40% Fiber Glass	20% Other	Grayish Fibrous Heterogeneous
71971572PLM_11					Teased, Crushed
FT-4-12 - A	12x12 Pink floor tile & associated yellow mastic; lobby, closet, hall 1, hall 2	None Detected		100% Other	Pink Non Fibrous Heterogeneous
71971572PLM_12	tile				Dissolved
FT-4-12 - B	12x12 Pink floor tile & associated yellow mastic; lobby, closet, hall 1, hall 2	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971572PLM_89	mastic				Dissolved
FT-4-13 - A	12x12 Pink floor tile & associated yellow mastic; lobby, closet, hall 1, hall 2	None Detected		100% Other	Pink Non Fibrous Heterogeneous
71971572PLM_13	tile				Dissolved
FT-4-13 - B	12x12 Pink floor tile & associated yellow mastic; lobby, closet, hall 1, hall 2	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971572PLM_90	mastic				Dissolved
FT-4-14 - A	12x12 Pink floor tile & associated yellow mastic; lobby, closet, hall 1, hall 2	Not Analyzed			
71971572PLM_14	tile - TEM				

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-4-14 - B	12x12 Pink floor tile & associated yellow mastic; lobby, closet, hall 1, hall 2	Not Analyzed			
71971572PLM_91	mastic - TEM				
CM-5-15	Yellow mastic under brown carpet front office, rm 1, 2, 3	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971572PLM_15					Dissolved
CM-5-16	Yellow mastic under brown carpet front office, rm 1, 2, 3	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971572PLM_16					Dissolved
CM-5-17	Yellow mastic under brown carpet front office, rm 1, 2, 3	Not Analyzed			
71971572PLM_17	TEM				
BBI-6-18	Pink black batt insulation 1 behind drywalls & above ceiling in rm 3	None Detected		100% Other	Black Non Fibrous Homogeneous
71971572PLM_18					Dissolved
BBI-6-19	Pink black batt insulation 1 behind drywalls & above ceiling in rm 3	None Detected		100% Other	Black Non Fibrous Homogeneous
71971572PLM_19					Dissolved
BBI-6-20	Pink black batt insulation 1 behind drywalls & above ceiling in rm 3	Not Analyzed			
71971572PLM_20	TEM				
BBI-7-21	Pink black batt insulation 2 behind walls lobby, closet, front office, rm 1, hall 2	None Detected		100% Other	Black Non Fibrous Homogeneous
71971572PLM_21					Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
BBI-7-22	Pink black batt insulation 2 behind walls lobby, closet, front office, rm 1, hall 2	None Detected		100% Other	Black Non Fibrous Homogeneous
71971572PLM_22					Dissolved
BBI-7-23	Pink black batt insulation 2 behind walls lobby, closet, front office, rm 1, hall 2	Not Analyzed			
71971572PLM_23	TEM				
BBI-8-24	Kraft paper (brown) around yellow fiberglass around HVAC ductwork ductwork (lo	None Detected	70% Cellulose	30% Other	Brown, Yellow Fibrous Heterogeneous
71971572PLM_24					Teased, Dissolved
BBI-8-25	Kraft paper (brown) around yellow fiberglass around HVAC ductwork ductwork (lo	None Detected	70% Cellulose	30% Other	Brown, Yellow Fibrous Heterogeneous
71971572PLM_25					Teased, Dissolved
BBI-8-26	Kraft paper (brown) around yellow fiberglass around HVAC ductwork ductwork (lo	Not Analyzed			
71971572PLM_26	TEM				
BBI-9-27	Silver kraft paper insulation w/ yellow fiberglass & mastic around HVAC ductwork	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971572PLM_27					Dissolved
BBI-9-28	Silver kraft paper insulation w/ yellow fiberglass & mastic around HVAC ductwork	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971572PLM_28					Dissolved
BBI-9-29	Silver kraft paper insulation w/ yellow fiberglass & mastic around HVAC ductwork	Not Analyzed			
71971572PLM_29	TEM				

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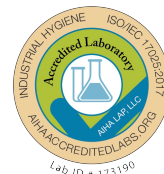
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Project: PPOE00521 Warehouse 10

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-10-30 - A	9x9 Beige floor tiles & associated black mastic; HVAC room, rm 4 (btm layer)	8% Chrysotile		92% Other	Tan Non Fibrous Heterogeneous
71971572PLM_30	tile				Dissolved
FT-10-30 - B	9x9 Beige floor tiles & associated black mastic; HVAC room, rm 4 (btm layer)	None Detected		100% Other	Black Non Fibrous Homogeneous
71971572PLM_92	mastic				Dissolved
FT-10-31 - A	9x9 Beige floor tiles & associated black mastic; HVAC room, rm 4 (btm layer)	8% Chrysotile		92% Other	Tan Non Fibrous Heterogeneous
71971572PLM_31	tile				Dissolved
FT-10-31 - B	9x9 Beige floor tiles & associated black mastic; HVAC room, rm 4 (btm layer)	None Detected		100% Other	Black Non Fibrous Homogeneous
71971572PLM_93	mastic				Dissolved
FT-10-32 - A	9x9 Beige floor tiles & associated black mastic; HVAC room, rm 4 (btm layer)	Not Analyzed			
71971572PLM_32	tile - TEM				
FT-10-32 - B	9x9 Beige floor tiles & associated black mastic; HVAC room, rm 4 (btm layer)	Not Analyzed			
71971572PLM_94	mastic - TEM				
FT-11-33 - A	12x12 Cream floor tile & associated mastic rm 4 (top layer)	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71971572PLM_33	tile				Dissolved
FT-11-33 - B	12x12 Cream floor tile & associated mastic rm 4 (top layer)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971572PLM_95	mastic				Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-11-34 - A	12x12 Cream floor tile & associated mastic rm 4 (top layer)	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71971572PLM_34	tile				Dissolved
FT-11-34 - B	12x12 Cream floor tile & associated mastic rm 4 (top layer)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971572PLM_96	mastic				Dissolved
FT-11-35 - A	12x12 Cream floor tile & associated mastic rm 4 (top layer)	Not Analyzed			
71971572PLM_35	tile - TEM				
FT-11-35 - B	12x12 Cream floor tile & associated mastic rm 4 (top layer)	Not Analyzed			
71971572PLM_97	mastic - TEM				
TB-12-36 - A	4 in b.. Vinyl toeboard & associated mastic; bathrooms 3 & 4	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971572PLM_36	toeboard				Dissolved
TB-12-36 - B	4 in b.. Vinyl toeboard & associated mastic; bathrooms 3 & 4	None Detected		100% Other	Cream Non Fibrous Homogeneous
71971572PLM_98	mastic				Dissolved
TB-12-37 - A	4 in b.. Vinyl toeboard & associated mastic; bathrooms 3 & 4	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971572PLM_37	toeboard				Dissolved
TB-12-37 - B	4 in b.. Vinyl toeboard & associated mastic; bathrooms 3 & 4	None Detected		100% Other	Cream Non Fibrous Homogeneous
71971572PLM_99	mastic				Dissolved

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Lab Order ID: 71971572
Analysis ID: 71971572_PLM
Date Received: 8/2/2021
Date Reported: 8/11/2021

Project: PPOE00521 Warehouse 10

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TB-12-38 - A	4 in b.. Vinyl toeboard & associated mastic; bathrooms 3 & 4	Not Analyzed			
71971572PLM_38	toeboard - TEM				
TB-12-38 - B	4 in b.. Vinyl toeboard & associated mastic; bathrooms 3 & 4	Not Analyzed			
71971572PLM_100	mastic				
G-13-39	Red rubbersized gaskets process line 5	None Detected		100% Other	Red Non Fibrous Heterogeneous
71971572PLM_39					Dissolved
G-13-40	Red rubbersized gaskets process line 5	None Detected		100% Other	Red Non Fibrous Heterogeneous
71971572PLM_40					Dissolved
G-13-41	Red rubbersized gaskets process line 5	Not Analyzed			
71971572PLM_41	TEM				
G-14-42	Brittle gaskets process line 4	50% Chrysotile		50% Other	Black Fibrous Heterogeneous
71971572PLM_42					Teased
G-14-43	Brittle gaskets process line 4	50% Chrysotile		50% Other	Black Fibrous Heterogeneous
71971572PLM_43					Teased
G-14-44	Brittle gaskets process line 4	50% Chrysotile		50% Other	Black Fibrous Heterogeneous
71971572PLM_44					Teased

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Eloisa Blake (103)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971572
Analysis ID: 71971572_PLM
Date Received: 8/2/2021
Date Reported: 8/11/2021

Project: PPOE00521 Warehouse 10

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CM-15-45	Cementitious material around fan blower in NE corner	70% Chrysotile		30% Other	Gray Fibrous Heterogeneous
71971572PLM_45					Teased
CM-15-46	Cementitious material around fan blower in NE corner	70% Chrysotile		30% Other	Gray Fibrous Heterogeneous
71971572PLM_46					Teased
CM-15-47	Cementitious material around fan blower in NE corner	70% Chrysotile		30% Other	Gray Fibrous Heterogeneous
71971572PLM_47					Teased
CW-16-48	Beige canvas wrap around vertical box duct in middle of warehouse	None Detected	75% Cellulose	25% Other	White Fibrous Heterogeneous
71971572PLM_48					Teased, Dissolved
CW-16-49	Beige canvas wrap around vertical box duct in middle of warehouse	None Detected	75% Cellulose	25% Other	White Fibrous Heterogeneous
71971572PLM_49					Teased, Dissolved
CW-16-50	Beige canvas wrap around vertical box duct in middle of warehouse	None Detected	75% Cellulose	25% Other	White Fibrous Heterogeneous
71971572PLM_50					Teased, Dissolved
HJ-17-51	Hard joint TSI - large diameter pipes	50% Chrysotile	25% Cellulose	25% Other	Gray Fibrous Heterogeneous
71971572PLM_51	wrap inseparable				Teased
HJ-17-52	Hard joint TSI - large diameter pipes	50% Chrysotile	25% Cellulose	25% Other	Gray Fibrous Heterogeneous
71971572PLM_52	wrap inseparable				Teased

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Lab Order ID: 71971572
Analysis ID: 71971572_PLM
Date Received: 8/2/2021
Date Reported: 8/11/2021

Project: PPOE00521 Warehouse 10

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
HJ-17-53	Hard joint TSI - large diameter pipes	50% Chrysotile	25% Cellulose	25% Other	Gray Fibrous Heterogeneous
71971572PLM_53	wrap inseparable				Teased
TSI-18-54	Thermal system insulation - large diameter, straight run	30% Chrysotile 20% Amosite	25% Cellulose	25% Other	Gray Fibrous Heterogeneous
71971572PLM_54	wrap inseparable				Teased
TSI-18-55	Thermal system insulation - large diameter, straight run	30% Chrysotile 20% Amosite	25% Cellulose	25% Other	Gray Fibrous Heterogeneous
71971572PLM_55	wrap inseparable				Teased
TSI-18-56	Thermal system insulation - large diameter, straight run	30% Chrysotile 20% Amosite	25% Cellulose	25% Other	Gray Fibrous Heterogeneous
71971572PLM_56	wrap inseparable				Teased
TSI-19-57 - A	Thermal system insulation - small diameter, straight run	None Detected	75% Cellulose	25% Other	Brown Fibrous Heterogeneous
71971572PLM_57	wrap				Teased
TSI-19-57 - B	Thermal system insulation - small diameter, straight run	None Detected	25% Cellulose	75% Other	Gray Fibrous Heterogeneous
71971572PLM_101	insulation				Teased
TSI-19-58	Thermal system insulation - small diameter, straight run	10% Chrysotile	35% Cellulose	55% Other	Gray Fibrous Heterogeneous
71971572PLM_58	wrap inseparable				Teased
TSI-19-59	Thermal system insulation - small diameter, straight run	30% Chrysotile 20% Amosite	25% Cellulose	25% Other	Gray Fibrous Heterogeneous
71971572PLM_59	wrap inseparable				Teased

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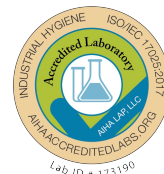
Analyst

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
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Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971572
Analysis ID: 71971572_PLM
Date Received: 8/2/2021
Date Reported: 8/11/2021

Project: PPOE00521 Warehouse 10

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
HJ-20-60	Hard joint TSI - medium diameter	3% Chrysotile	20% Cellulose	77% Other	Tan, Gray Fibrous Heterogeneous
71971572PLM_60	wrap inseparable				Teased
HJ-20-61	Hard joint TSI - medium diameter	3% Chrysotile	20% Cellulose	77% Other	Tan, Gray Fibrous Heterogeneous
71971572PLM_61	wrap inseparable				Teased
HJ-20-62 - A	Hard joint TSI - medium diameter	None Detected	40% Cellulose	60% Other	Tan Fibrous Heterogeneous
71971572PLM_62	wrap				Teased
HJ-20-62 - B	Hard joint TSI - medium diameter	None Detected	15% Fiber Glass	85% Other	Gray Non Fibrous Heterogeneous
71971572PLM_102	insulation				Crushed
HJ-21-63 - A	Hard joint TSI - small diameter	None Detected	40% Cellulose	60% Other	Tan Fibrous Heterogeneous
71971572PLM_63	wrap				Teased
HJ-21-63 - B	Hard joint TSI - small diameter	None Detected	15% Fiber Glass	85% Other	Gray Non Fibrous Heterogeneous
71971572PLM_103	insulation				Crushed
HJ-21-64	Hard joint TSI - small diameter	None Detected	15% Fiber Glass	85% Other	Gray Non Fibrous Heterogeneous
71971572PLM_64					Crushed
HJ-22-65	Hard joint TSI - small diameter	None Detected	15% Fiber Glass	85% Other	Gray Non Fibrous Heterogeneous
71971572PLM_65					Crushed

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Date Received: 8/2/2021
Date Reported: 8/11/2021

Project: PPOE00521 Warehouse 10

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TSI-23-66	Canvas wrap insulation around medium diameter pipes - straight run	None Detected	75% Cellulose	25% Other	Tan Fibrous Heterogeneous
71971572PLM_66					Teased
TSI-23-67	Canvas wrap insulation around medium diameter pipes - straight run	None Detected	75% Cellulose	25% Other	Tan Fibrous Heterogeneous
71971572PLM_67					Teased
TSI-23-68	Canvas wrap insulation around medium diameter pipes - straight run	None Detected	75% Cellulose	25% Other	Tan Fibrous Heterogeneous
71971572PLM_68					Teased
FB-24-69	Beige/light red brick	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71971572PLM_69					Crushed
FB-24-70	Beige/light red brick	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71971572PLM_70					Crushed
FB-24-71	Beige/light red brick	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71971572PLM_71					Crushed
FB-25-72	Dark red interior brick	None Detected		100% Other	Red Non Fibrous Heterogeneous
71971572PLM_72					Crushed
FB-25-73	Dark red interior brick	None Detected		100% Other	Red Non Fibrous Heterogeneous
71971572PLM_73					Crushed

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



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2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971572
Analysis ID: 71971572_PLM
Date Received: 8/2/2021
Date Reported: 8/11/2021

Project: PPOE00521 Warehouse 10

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FB-25-74	Dark red interior brick	None Detected		100% Other	Red Non Fibrous Heterogeneous
71971572PLM_74					Crushed
S-26-75	Black sealant on HVAC unit chilled water unit #2 in HVAC room	25% Chrysotile		75% Other	Black Fibrous Heterogeneous
71971572PLM_75					Dissolved
S-26-76	Black sealant on HVAC unit chilled water unit #2 in HVAC room	25% Chrysotile		75% Other	Black Fibrous Heterogeneous
71971572PLM_76					Dissolved
S-26-77	Black sealant on HVAC unit chilled water unit #2 in HVAC room	Not Analyzed			
71971572PLM_77	TEM				
C-27-78	White caulk around door - main entrance exterior	None Detected		100% Other	White Non Fibrous Homogeneous
71971572PLM_78					Dissolved
C-27-79	White caulk around door - main entrance exterior	None Detected		100% Other	White Non Fibrous Homogeneous
71971572PLM_79					Dissolved
C-27-80	White caulk around door - main entrance exterior	Not Analyzed			
71971572PLM_80	TEM				

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Eloisa Blake (103)

Analyst

Approved Signatory



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4604 Dundas Dr. Greensboro, NC 27407
Phone: 336.292.3888 Fax: 336.292.3313
www.sailab.com lab@sailab.com

Lab Use Only

Lab Order ID:

Client Code:

1971572

Company Contact Information

Company: GEL Engineering, LLC	Contact: Ron Sharpe/Sarah Browning
Address: 2040 Savage Road	Phone <input type="checkbox"/> : 843/769-7378
Charleston, SC 29407	Fax <input type="checkbox"/> : 843/769-7397
	Email <input checked="" type="checkbox"/> : ronald.sharpe@gel.com
	sarah.browning@gel.com

Billing/Invoice Information

Company:	90 Min. <input type="checkbox"/>	48 Hours <input type="checkbox"/>
Contact: Same	3 Hours <input type="checkbox"/>	72 Hours <input type="checkbox"/>
Address: AS	6 Hours <input type="checkbox"/>	96 Hours <input type="checkbox"/>
Above	12 Hours <input type="checkbox"/>	120 Hours <input checked="" type="checkbox"/>
	24 Hours <input type="checkbox"/>	144+ Hours <input type="checkbox"/>

Turn Around Times

Asbestos Test Types

PLM EPA 600/R-93/116 (PLM)	<input checked="" type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/>	TWA (PTA) <input type="checkbox"/>
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input checked="" type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other:	<input type="checkbox"/>

PO Number:

Project Name/Number: PPOE00521 Warehouse 10 (7/29/21)

✓ = TEM

* Run PLM+TEM simultaneously *

Sample ID #	Description/Location	Volume/Area	Comments
P-1-1	Plaster	~ 3,800 SF	Analyze 5 ft m
P-1-2	lobby, closet, front office, Rm 1,	↓	← base coat
P-1-3	hall 1, half hall 2, HVAC rm, Rm 4,	↓	↓
P-1-4	bath tile ceiling, Rm 5 tile ceiling	↓	↓
P-1-5	↓	↓	↓
DW-2-6	Drywall & joint compound	~ 700 SF	Analyze DW+JC only
DW-2-7	half hall 2, Rm 2, small drywall	↓	↓
DW-2-8	divider in Rm 4	↓	↓
CT-3-9	2x4 wormhole ceiling tile	~ 800 SF	Analyze ceiling
CT-3-10	bathroom 2, Rm 3, HVAC rm,	↓	tile only
CT-3-11	Rm 4	↓	↓

Total # of Samples 80

Relinquished by	Date/Time	Received by	Date/Time
see enclosure	7/30/21 0800	B. Bulley	8/2 1030A

Accepted ☒

Rejected ☐

Page 1 of 3

A-F-017 EXP: 2/4/2021



* Run PLM+TEM simultaneously *

Scientific Analytical Institute

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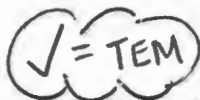
Lab Use Only

Lab Order ID:

Client Code:

11971572

Sample ID #	Specific Location	Volume/Area	Comments
FT-4-12	12x12 pink floor tile & associated yellow mastic; lobby, closet, hall 1,	~370 SF	Analyze tile & mastic (if present)
FT-4-13	hall 2	↓	↓
✓ FT-4-14	↓	↓	↓
CM-5-15	yellow mastic under brown carpet	~800 SF	Analyze mastic only
✓ CM-5-16	front office, Rm 1, 2, 3	↓	↓
✓ CM-5-17	↓	↓	↓
BBI-6-18	pink black batt insulation 1	~1,000 SF	Analyze black batt only
✓ BBI-6-19	behind drywalls & above ceiling	↓	↓
✓ BBI-6-20	in Rm 3	↓	↓
BBI-7-21	pink black batt insulation 2	~1,000 SF	Analyze black batt only
✓ BBI-7-22	behind walls lobby, closet,	↓	↓
✓ BBI-7-23	front office, Rm 1, hall 2	↓	↓
✓ BBI-8-24	Kraft paper (brown) around yellow fiberglass around HVAC ductwork	~30 LF	Analyze Kraft paper only
✓ BBI-8-25	ductwork (lobby, closet, front office, Rm 1)	↓	↓
✓ BBI-8-26	ductwork	↓	↓
BBI-9-27	silver Kraft paper insulation w/ yellow fiberglass & mastic around HVAC ductwork	~150 LF	Analyze Kraft paper & mastic only
✓ BBI-9-28	↓	↓	↓
✓ BBI-9-29	↓	↓	↓
FT-10-30	9x9 beige floor tiles & associated black mastic; HVAC room,	~360 SF	Analyze tile & mastic only (if present)
✓ FT-10-31	Rm 4 (bottom layer)	↓	↓
✓ FT-10-32	↓	↓	↓
FT-11-33	12x12 cream floor tile & associated mastic Rm 4	~180 SF	Analyze tile & mastic only (if present)
✓ FT-11-34	(top layer) ↓	↓	↓
✓ FT-11-35	↓	↓	↓
TB-12-36	4 in brown vinyl toeboard & associated mastic; bathrooms	~90 LF	Analyze toeboard & mastic only
✓ TB-12-37	3+4	↓	↓
✓ TB-12-38	↓	↓	↓
G-13-39	red rubberized gaskets	All gaskets on Fire Dept Water Pipes	Analyze gasket only
✓ G-13-40	↓ process line 5	↓	↓
✓ G-13-41	↓	↓	↓
G-14-42	brittle gaskets	Gaskets on process system lines	↓
G-14-43	↓ process line 4	↓	↓
G-14-44	↓	↓	↓
CM-15-45	Cementitious material around fan blower in NE corner	~20 SF	Analyze all components
CM-15-46	↓	↓	↓
CM-15-47	↓	↓	↓
CW-16-48	beige canvas wrap around vertical box duct in middle of warehouse	~200 SF	Analyze canvas wrap only
CW-16-49	↓	↓	↓
CW-16-50	↓	↓	↓



11971572

lab@sailab.com

Client Code:

✓
.
✓



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971661

Analysis ID: 71971661_TB

Date Received: 8/3/2021

Date Reported: 8/11/2021

Project: PPOE00521 Warehouse 11

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes			(Wt. %)		(Wt. %)
FT-1-3-a	Streaked off-white floor tile & mastic #2; space 1, rm 5	30.0%	36%	1.7 %	Chrysotile	1.5% - 1.8%
71971661TBS_1	tile					
FT-1-3-b	Streaked off-white floor tile & mastic #2; space 1, rm 5	55%	-	None Detected		
71971661TBS_16	mastic					
FT-2-6-a	12x12 Green camo floor tile & mastic; space 1 rms 2,3,7,8 space 2 - rm 10, space 3 - rm 1,2	31%	39%	None Detected		
71971661TBS_2	tile					
FT-2-6-b	12x12 Green camo floor tile & mastic; space 1 rms 2,3,7,8 space 2 - rm 10, space 3 - rm 1,2	66%	-	None Detected		
71971661TBS_17	mastic					
FT-3-9-a	12x12 Streaked off white floor tile #1 & mastic; space 1 - rms 1,4 space 2 - rms 1,2	25%	42%	0.33 %	Chrysotile	0.30% - 0.37%
71971661TBS_3	tile					
FT-3-9-b	12x12 Streaked off white floor tile #1 & mastic; space 1 - rms 1,4 space 2 - rms 1,2	31%	-	0.69 %	Chrysotile	0.62% - 0.76%
71971661TBS_18	mastic					

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Daniel Schwartz (25)

Analyst

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Approved Signatory



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971661

Analysis ID: 71971661_TB

Date Received: 8/3/2021

Date Reported: 8/11/2021

Project: PPOE00521 Warehouse 11

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes			(Wt. %)		(Wt. %)
FT-4-12-a	12x12 Pink floor tile & mastic space 2 - rm 3	23%	75%	0.015 %	Chrysotile	0.013% - 0.016%
71971661TBS_4	tile					
FT-4-12-b	12x12 Pink floor tile & mastic space 2 - rm 3	51%	-	None Detected		
71971661TBS_19	mastic					
FT-5-15-a	12x12 Streaked off-white floor tile #3 & mastic space 2 - 9,11 space 3 - rms 3,4	26%	54%	None Detected		
71971661TBS_5	tile					
FT-5-15-b	12x12 Streaked off-white floor tile #3 & mastic space 2 - 9,11 space 3 - rms 3,4	46%	-	None Detected		
71971661TBS_20	mastic					
MB-6-18	Black moisture barrier under floor tile space 3 - rms 3,4,5	66%	-	None Detected		
71971661TBS_6						
FT-7-21-a	12x12 Speckled white floor tile & mastic space 2 - rm 6	34%	13%	0.53 %	Chrysotile	0.48% - 0.59%
71971661TBS_7	tile					

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Lab Order ID: 71971661

Analysis ID: 71971661_TB

Date Received: 8/3/2021

Date Reported: 8/11/2021

Project: PPOE00521 Warehouse 11

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes			(Wt. %)		(Wt. %)
FT-7-21-b	12x12 Speckled white floor tile & mastic space 2 - rm 6	33%	-	0.67 %	Chrysotile	0.60% - 0.73%
71971661TBS_21	mastic					
FT-8-24-a	9x9 Gray floor tile space 2 - rm 4	25%	14%	1.2 %	Chrysotile	1.1% - 1.3%
71971661TBS_8	tile					
FT-8-24-b	9x9 Gray floor tile space 2 - rm 4	83%	-	None Detected		
71971661TBS_22	mastic					
FT-9-27-a	Light brown 9x9 floor tile & mastic under camo floor tile space 2 - 1,2,5	49%	0.32%	None Detected		
71971661TBS_9	tile					
FT-9-27-b	Light brown 9x9 floor tile & mastic under camo floor tile space 2 - 1,2,5	47%	-	None Detected		
71971661TBS_23	mastic					
BBI-11-33	Black batt insulation w/ pink fiberglass; space 1 - rms 1,4,5,12 space 2 - 8,11, space 3 - bath 1	80.%	-	None Detected		
71971661TBS_10						

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Daniel Schwartz (25)

Analyst

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

Approved Signatory



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971661

Analysis ID: 71971661_TB

Date Received: 8/3/2021

Date Reported: 8/11/2021

Project: PPOE00521 Warehouse 11

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
Lab Sample ID	Lab Notes	(Wt. %)	(Wt. %)	(Wt. %)	(Wt. %)
BBI-12-36	Black batt insulation w/ yellow fiberglass; space 1 - rms 2,3,7,8 space 2 - rms 1,2,3	95%	-	None Detected	
71971661TBS_11					
TB-13-39-a	4inch brown toeboards space 1 mens bathroom/locker space 3 - bathroom 1	41%	-	None Detected	
71971661TBS_12	toeboard				
TB-13-39-b	4inch brown toeboards space 1 mens bathroom/locker space 3 - bathroom 1	54%	-	None Detected	
71971661TBS_24	mastic				
TB-14-42-a	4inch black toeboards & mastic space 3 - bathroom 2	34%	-	None Detected	
71971661TBS_13	toeboard				
TB-14-42-b	4inch black toeboards & mastic space 3 - bathroom 2	50.0%	-	None Detected	
71971661TBS_25	mastic				
M-16-47	Mastic under porcelain floor tile in kitchen/cafeteria	28%	-	None Detected	
71971661TBS_14					

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Lab Order ID: 71971661

Analysis ID: 71971661_TB

Date Received: 8/3/2021

Date Reported: 8/11/2021

Project: PPOE00521 Warehouse 11

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
<i>Lab Sample ID</i>	<i>Lab Notes</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>
BBI-18-54	Brown kraft paper around yellow fiberglass around HVAC duct (space 1 - rm 11)	77%	-	None Detected	
71971661TBS_15					

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Phone: 336.292.3888 Fax: 336.292.3313
www.sailab.com lab@sailab.com

Lab Use Only
Lab Order ID: 11971661
Client Code: _____

Company Contact Information	
Company: GEL Engineering, LLC	Contact: Ron Sharpe/Sarah Browning
Address: 2040 Savage Road Charleston, SC 29407	Phone <input type="checkbox"/> : 843/769-7375 Fax <input type="checkbox"/> : 843/769-7397 Email <input checked="" type="checkbox"/> : ron.sharpe@gel.com sarah.browning@gel.com
Billing/Invoice Information	
Company:	90 Min. <input type="checkbox"/> 48 Hours <input type="checkbox"/>
Contact: Same	3 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>
Address: AS	6 Hours <input type="checkbox"/> 96 Hours <input type="checkbox"/>
Above	12 Hours <input type="checkbox"/> 120 Hours <input checked="" type="checkbox"/>
	24 Hours <input type="checkbox"/> 144* Hours <input type="checkbox"/>

Asbestos Test Types	
PLM EPA 600/R-93/116 (PLM)	<input checked="" type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/> TWA (PTA) <input type="checkbox"/>	
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input checked="" type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>

PO Number: _____
Project Name/Number: PPOED0521 Warehouse 11 (7/30/21)

✓ = TEM

* Run PLM + TEM simultaneously *

Sample ID #	Description/Location	Volume/Area	Comments
FT-1-1	streaked off-white floor tile mastic	~216 SF	Analyze tile & mastic
FT-1-2	#2; space 1, Rm 5	↓	↓
✓ FT-1-3	↓	↓	↓
FT-2-4	12x12 green camo floor tile & mastic; space 1 - Rms 2,3,7,8	~1,300 SF	Analyze tile & mastic
FT-2-5	space 2 - Rm 10, space 3 - Rm 1,2	↓	↓
✓ FT-2-6	↓	↓	↓
FT-3-7	12x12 streaked off white floor tile #1 & mastic; space 1 - Rms 1,4	~640 SF	Analyze tile & mastic
FT-3-8	↓	↓	↓
✓ FT-3-9	space 2 - Rms 1, 2	↓	↓

Total # of Samples 78

Relinquished by	Date/Time	Received by	Date/Time
	7/31/21 @ 1400		8/3 10:30 A

Accepted ☒

Rejected ☐

Page 1 of 3
A-F-017 EXP: 2/4/2021



* Run PLM + TEM simultaneously *

Scientific Analytical Institute

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Lab Use Only

Lab Order ID:

Client Code:

11971661

Sample ID #	Specific Location	Volume/Area	Comments
FT-4-10	12x12 pink floor tile + mastic	~100 SF	Analyze tile +
✓ FT-4-11	Space 2 - Bms 3	↓	mastic
✓ FT-4-12	↓	↓	↓
FT-5-13	12x12 streaked off-white	~1,100 SF	Analyze tile +
✓ FT-5-14	floor tile #3 + mastic	↓	mastic
✓ FT-5-15	Space 2 - 9, 11 Space 3 - Bms 3, 4	↓	↓
MB-6-16	black moisture barrier under	~530 SF	Analyze moisture
✓ MB-6-17	floor tile	↓	barrier only
✓ MB-6-18	Space 3 - Bms 3, 4, 5	↓	↓
FT-7-19	12x12 speckled white floor	~110 SF	Analyze mastic
✓ FT-7-20	tile + mastic	↓	+ tile
✓ FT-7-21	Space 2 - Bms 6	↓	↓
FT-8-22	9x9 gray floor tile	~55 SF	Analyze floor tile
✓ FT-8-23	↓ Space 2 - Bms 4	↓	+ mastic if present
✓ FT-8-24	↓	↓	↓
FT-9-25	light brown 9x9 floor tile +	~700 SF	Analyze tile +
✓ FT-9-26	mastic under cameo floor tile	↓	mastic if present
✓ FT-9-27	Space 3 - 1, 2, 5	↓	↓
CT-10-28	1x1 white wormhole ceiling tile	~570 SF	Analyze ceiling
CT-10-29	Space 2 - kitchen serving area	↓	tile only
CT-10-30	Space 3 - bath 2	↓	↓
BBI-11-31	black batt insulation w/ pink	~3,000 SF	Analyze black
✓ BBI-11-32	fiberglass; Space 1 - Bms 1, 4, 5, 12	↓	batt only
✓ BBI-11-33	Space 2 - 8, 11, Space 3 - Bath 1	↓	↓
BBI-12-34	black batt insulation w/ yellow	~3,000 SF	Analyze black
BBI-12-35	fiberglass; Space 1 - Bms 2, 3, 7, 8	↓	batt only
✓ BBI-12-36	Space 2 - Bms 1, 2, 5	↓	↓
TB-13-37	4 inch brown toeboards	~180 LF	Analyze toeboard
TB-13-38	Space 1 - Mens bathroom/lower	↓	+ mastic if present
✓ TB-13-39	Space 3 - bathroom 1	↓	↓
TB-14-40	4 inch black toeboards	~60 LF	Analyze toeboard
TB-14-41	+ mastic	↓	+ mastic
✓ TB-14-42	Space 3 - bathroom 2	↓	↓
FH-15-43	canvas wrap fire hose	fire hoses	Analyze fire
FH-15-44	↓	↓	hose only
FH-15-45	↓	↓	↓



* Run PLM+TEM simultaneously *

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Lab Use Only

Lab Order ID:

Client Code:

1197166

[illegible]



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971654
Analysis ID: 71971654_PLM
Date Received: 8/3/2021
Date Reported: 8/11/2021

Project: PPOE00521 Warehouse 11

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-1-1 - A	Streaked off-white floor tile & mastic #2; space 1, rm 5	3% Chrysotile		97% Other	Gray Non Fibrous Heterogeneous
71971654PLM_1	tile				Dissolved
FT-1-1 - B	Streaked off-white floor tile & mastic #2; space 1, rm 5	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71971654PLM_79	mastic				Dissolved
FT-1-2 - A	Streaked off-white floor tile & mastic #2; space 1, rm 5	3% Chrysotile		97% Other	Gray Non Fibrous Heterogeneous
71971654PLM_2	tile				Dissolved
FT-1-2 - B	Streaked off-white floor tile & mastic #2; space 1, rm 5	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71971654PLM_80	mastic				Dissolved
FT-1-3 - A	Streaked off-white floor tile & mastic #2; space 1, rm 5	Not Analyzed			
71971654PLM_3	tile - TEM				
FT-1-3 - B	Streaked off-white floor tile & mastic #2; space 1, rm 5	Not Analyzed			
71971654PLM_81	mastic - TEM				
FT-2-4 - A	12x12 Green camo floor tile & mastic; space 1 - rms 2,3,7,8 space 2 - rm 10, space 3 - rm 1	3% Chrysotile		97% Other	Grayish, Green Non Fibrous Heterogeneous
71971654PLM_4	tile				Dissolved
FT-2-4 - B	12x12 Green camo floor tile & mastic; space 1 - rms 2,3,7,8 space 2 - rm 10, space 3 - rm 1	None Detected		100% Other	Brown Non Fibrous Heterogeneous
71971654PLM_82	mastic				Dissolved

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Jalen Moore (118)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

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Sarah Browning

Lab Order ID: 71971654
Analysis ID: 71971654_PLM
Date Received: 8/3/2021
Date Reported: 8/11/2021

Project: PPOE00521 Warehouse 11

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-2-5 - A	12x12 Green camo floor tile & mastic; space 1 - rms 2,3,7,8 space 2 - rm 10, space 3 - rm 1	3% Chrysotile		97% Other	Grayish, Green Non Fibrous Heterogeneous
71971654PLM_5	tile				Dissolved
FT-2-5 - B	12x12 Green camo floor tile & mastic; space 1 - rms 2,3,7,8 space 2 - rm 10, space 3 - rm 1	None Detected		100% Other	Brown Non Fibrous Heterogeneous
71971654PLM_83	mastic				Dissolved
FT-2-6 - A	12x12 Green camo floor tile & mastic; space 1 - rms 2,3,7,8 space 2 - rm 10, space 3 - rm 1	Not Analyzed			
71971654PLM_6	tile - TEM				
FT-2-6 - B	12x12 Green camo floor tile & mastic; space 1 - rms 2,3,7,8 space 2 - rm 10, space 3 - rm 1	Not Analyzed			
71971654PLM_84	mastic - TEM				
FT-3-7 - A	12x12 Streaked off white floor tile #1 & mastic; space 1 - rms 1,4 space 2 - rms 1,2	3% Chrysotile		97% Other	Gray Non Fibrous Heterogeneous
71971654PLM_7	tile				Dissolved
FT-3-7 - B	12x12 Streaked off white floor tile #1 & mastic; space 1 - rms 1,4 space 2 - rms 1,2	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71971654PLM_85	mastic				Dissolved
FT-3-8 - A	12x12 Streaked off white floor tile #1 & mastic; space 1 - rms 1,4 space 2 - rms 1,2	3% Chrysotile		97% Other	Gray Non Fibrous Heterogeneous
71971654PLM_8	tile				Dissolved
FT-3-8 - B	12x12 Streaked off white floor tile #1 & mastic; space 1 - rms 1,4 space 2 - rms 1,2	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71971654PLM_86	mastic				Dissolved

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Jalen Moore (118)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971654
Analysis ID: 71971654_PLM
Date Received: 8/3/2021
Date Reported: 8/11/2021

Project: PPOE00521 Warehouse 11

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-3-9 - A	12x12 Streaked off white floor tile #1 & mastic; space 1 - rms 1,4 space 2 - rms 1,2	Not Analyzed			
71971654PLM_9	tile - TEM				
FT-3-9 - B	12x12 Streaked off white floor tile #1 & mastic; space 1 - rms 1,4 space 2 - rms 1,2	Not Analyzed			
71971654PLM_87	mastic - TEM				
FT-4-10 - A	12x12 Pink floor tile & mastic space 2 - rm 3	None Detected		100% Other	Pink Non Fibrous Heterogeneous
71971654PLM_10	tile				Dissolved
FT-4-10 - B	12x12 Pink floor tile & mastic space 2 - rm 3	None Detected		100% Other	Black Non Fibrous Heterogeneous
71971654PLM_88	mastic				Dissolved
FT-4-11 - A	12x12 Pink floor tile & mastic space 2 - rm 3	None Detected		100% Other	Pink Non Fibrous Heterogeneous
71971654PLM_11	tile				Dissolved
FT-4-11 - B	12x12 Pink floor tile & mastic space 2 - rm 3	None Detected		100% Other	Black Non Fibrous Heterogeneous
71971654PLM_89	mastic				Dissolved
FT-4-12 - A	12x12 Pink floor tile & mastic space 2 - rm 3	Not Analyzed			
71971654PLM_12	tile - TEM				
FT-4-12 - B	12x12 Pink floor tile & mastic space 2 - rm 3	Not Analyzed			
71971654PLM_90	mastic - TEM				

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Lab Order ID: 71971654
Analysis ID: 71971654_PLM
Date Received: 8/3/2021
Date Reported: 8/11/2021

Project: PPOE00521 Warehouse 11

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-5-13 - A	12x12 Streaked off-white floor tile #3 & mastic; space 2-9,11 space 3 - rms 3,4	3% Chrysotile		97% Other	Gray Non Fibrous Heterogeneous
71971654PLM_13	tile				Dissolved
FT-5-13 - B	12x12 Streaked off-white floor tile #3 & mastic; space 2-9,11 space 3 - rms 3,4	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
71971654PLM_91	mastic				Dissolved
FT-5-14 - A	12x12 Streaked off-white floor tile #3 & mastic; space 2-9,11 space 3 - rms 3,4	3% Chrysotile		97% Other	Gray Non Fibrous Heterogeneous
71971654PLM_14	tile				Dissolved
FT-5-14 - B	12x12 Streaked off-white floor tile #3 & mastic; space 2-9,11 space 3 - rms 3,4	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
71971654PLM_92	mastic - small sample				Dissolved
FT-5-15 - A	12x12 Streaked off-white floor tile #3 & mastic; space 2-9,11 space 3 - rms 3,4	Not Analyzed			
71971654PLM_15	tile - TEM				
FT-5-15 - B	12x12 Streaked off-white floor tile #3 & mastic; space 2-9,11 space 3 - rms 3,4	Not Analyzed			
71971654PLM_93	mastic - TEM				
MB-6-16	Black moisture barrier under floor tile space 3 - rms 3,4,5	None Detected	90% Cellulose	10% Other	Black Fibrous Heterogeneous
71971654PLM_16					Ashed
MB-6-17	Black moisture barrier under floor tile space 3 - rms 3,4,5	None Detected	90% Cellulose	10% Other	Black Fibrous Heterogeneous
71971654PLM_17					Ashed

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Project: PPOE00521 Warehouse 11

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
MB-6-18	Black moisture barrier under floor tile space 3 - rms 3,4,5	Not Analyzed			
71971654PLM_18	TEM				
FT-7-19 - A	12x12 Speckled white floor tile & mastic space 2 - rms 6	3% Chrysotile		97% Other	Gray Non Fibrous Heterogeneous
71971654PLM_19	tile				Dissolved
FT-7-19 - B	12x12 Speckled white floor tile & mastic space 2 - rms 6	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
71971654PLM_94	mastic				Dissolved
FT-7-20 - A	12x12 Speckled white floor tile & mastic space 2 - rms 6	3% Chrysotile		97% Other	Gray Non Fibrous Heterogeneous
71971654PLM_20	tile				Dissolved
FT-7-20 - B	12x12 Speckled white floor tile & mastic space 2 - rms 6	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
71971654PLM_95	mastic				Dissolved
FT-7-21 - A	12x12 Speckled white floor tile & mastic space 2 - rms 6	Not Analyzed			
71971654PLM_21	tile - TEM				
FT-7-21 - B	12x12 Speckled white floor tile & mastic space 2 - rms 6	Not Analyzed			
71971654PLM_96	mastic - TEM				
FT-8-22 - A	9x9 Gray floor tile space 2 - rm 4	3% Chrysotile		97% Other	Gray Non Fibrous Heterogeneous
71971654PLM_22	tile				Dissolved

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Project: PPOE00521 Warehouse 11

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-8-22 - B	9x9 Gray floor tile space 2 - rm 4	None Detected		100% Other	Black Non Fibrous Heterogeneous
71971654PLM_97	mastic				Dissolved
FT-8-23 - A	9x9 Gray floor tile space 2 - rm 4	3% Chrysotile		97% Other	Gray Non Fibrous Heterogeneous
71971654PLM_23	tile				Dissolved
FT-8-23 - B	9x9 Gray floor tile space 2 - rm 4	None Detected		100% Other	Black Non Fibrous Heterogeneous
71971654PLM_98	mastic				Dissolved
FT-8-24 - A	9x9 Gray floor tile space 2 - rm 4	Not Analyzed			
71971654PLM_24	tile - TEM				
FT-8-24 - B	9x9 Gray floor tile space 2 - rm 4	Not Analyzed			
71971654PLM_99	mastic - TEM				
FT-9-25 - A	Light brown 9x9 floor tile & mastic under camo floor tile space 3 - 1,2,5	3% Chrysotile		97% Other	Gray Non Fibrous Heterogeneous
71971654PLM_25	tile				Dissolved
FT-9-25 - B	Light brown 9x9 floor tile & mastic under camo floor tile space 3 - 1,2,5	None Detected		100% Other	Black Non Fibrous Heterogeneous
71971654PLM_100	mastic				Dissolved
FT-9-26 - A	Light brown 9x9 floor tile & mastic under camo floor tile space 3 - 1,2,5	None Detected		100% Other	Gray Non Fibrous Heterogeneous
71971654PLM_26	mastic 1				Dissolved

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Jalen Moore (118)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971654
Analysis ID: 71971654_PLM
Date Received: 8/3/2021
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Project: PPOE00521 Warehouse 11

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-9-26 - B	Light brown 9x9 floor tile & mastic under camo floor tile space 3 - 1,2,5	3% Chrysotile		97% Other	Gray Non Fibrous Heterogeneous
71971654PLM_101	tile				Dissolved
FT-9-26 - C	Light brown 9x9 floor tile & mastic under camo floor tile space 3 - 1,2,5	None Detected		100% Other	Black Non Fibrous Heterogeneous
71971654PLM_102	mastic 2				Dissolved
FT-9-27 - A	Light brown 9x9 floor tile & mastic under camo floor tile space 3 - 1,2,5	Not Analyzed			
71971654PLM_27	tile - TEM				
FT-9-27 - B	Light brown 9x9 floor tile & mastic under camo floor tile space 3 - 1,2,5	Not Analyzed			
71971654PLM_103	mastic - TEM				
CT-10-28	1x1 White wormhole ceiling tile space 2 - kitchen servicing area space 3 - bath 2	None Detected	70% Cellulose 20% Fiber Glass	10% Other	Gray Fibrous Heterogeneous
71971654PLM_28					Ashed
CT-10-29	1x1 White wormhole ceiling tile space 2 - kitchen servicing area space 3 - bath 2	None Detected	70% Cellulose 20% Fiber Glass	10% Other	Gray Fibrous Heterogeneous
71971654PLM_29					Ashed
CT-10-30	1x1 White wormhole ceiling tile space 2 - kitchen servicing area space 3 - bath 2	None Detected	70% Cellulose 20% Fiber Glass	10% Other	Gray Fibrous Heterogeneous
71971654PLM_30					Ashed
BBI-11-31	Black batt insulation w/ pink fiberglass; space 1 - rms 1,4,5,12 space 2 - 8,11, space	None Detected	60% Cellulose 20% Fiber Glass	20% Other	Black Fibrous Heterogeneous
71971654PLM_31					Ashed

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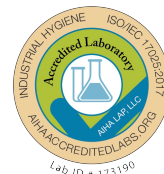
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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
BBI-11-32	Black batt insulation w/ pink fiberglass; space 1 - rms 1,4,5,12 space 2 - 8,11, space	None Detected	60% Cellulose 20% Fiber Glass	20% Other	Black Fibrous Heterogeneous
71971654PLM_32					Ashed
BBI-11-33	Black batt insulation w/ pink fiberglass; space 1 - rms 1,4,5,12 space 2 - 8,11, space	Not Analyzed			
71971654PLM_33	TEM				
BBI-12-34	Black batt insulation w/ yellow fiberglass; space 1 - rms 2,3,7,8 space 2 - rms 1,2,3	None Detected	60% Cellulose 20% Fiber Glass	20% Other	Black Fibrous Heterogeneous
71971654PLM_34					Ashed
BBI-12-35	Black batt insulation w/ yellow fiberglass; space 1 - rms 2,3,7,8 space 2 - rms 1,2,3	None Detected	60% Cellulose 20% Fiber Glass	20% Other	Black Fibrous Heterogeneous
71971654PLM_35					Ashed
BBI-12-36	Black batt insulation w/ yellow fiberglass; space 1 - rms 2,3,7,8 space 2 - rms 1,2,3	Not Analyzed			
71971654PLM_36	TEM				
TB-13-37 - A	4inch brown toeboards space 1 - mens bathroom/locker space 3 - bathroom 1	None Detected		100% Other	Brown Non Fibrous Heterogeneous
71971654PLM_37	toeboard				Ashed
TB-13-37 - B	4inch brown toeboards space 1 - mens bathroom/locker space 3 - bathroom 1	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71971654PLM_104	mastic				Dissolved
TB-13-38 - A	4inch brown toeboards space 1 - mens bathroom/locker space 3 - bathroom 1	None Detected		100% Other	Brown Non Fibrous Heterogeneous
71971654PLM_38	toeboard				Ashed

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Lab Sample ID	Lab Notes				Treatment
TB-13-38 - B	4inch brown toeboards space 1 - mens bathroom/locker space 3 - bathroom 1	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71971654PLM_105	mastic				Dissolved
TB-13-39 - A	4inch brown toeboards space 1 - mens bathroom/locker space 3 - bathroom 1	Not Analyzed			
71971654PLM_39	toeboard - TEM				
TB-13-39 - B	4inch brown toeboards space 1 - mens bathroom/locker space 3 - bathroom 1	Not Analyzed			
71971654PLM_106	mastic - TEM				
TB-14-40 - A	4inch black toeboards & mastic space 3 - bathroom 2	None Detected		100% Other	Black Non Fibrous Heterogeneous
71971654PLM_40	toeboard				Ashed
TB-14-40 - B	4inch black toeboards & mastic space 3 - bathroom 2	None Detected		100% Other	Brown Non Fibrous Heterogeneous
71971654PLM_107	mastic				Dissolved
TB-14-41 - A	4inch black toeboards & mastic space 3 - bathroom 2	None Detected		100% Other	Black Non Fibrous Heterogeneous
71971654PLM_41	toeboard				Ashed
TB-14-41 - B	4inch black toeboards & mastic space 3 - bathroom 2	None Detected		100% Other	Brown Non Fibrous Heterogeneous
71971654PLM_108	mastic				Dissolved
TB-14-42 - A	4inch black toeboards & mastic space 3 - bathroom 2	Not Analyzed			
71971654PLM_42	toeboard - TEM				

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TB-14-42 - B	4inch black toeboards & mastic space 3 - bathroom 2	Not Analyzed			
71971654PLM_109	mastic - TEM				
FH-15-43	Canvas wrap fire house	None Detected	20% Cellulose	80% Other	Black Non Fibrous Heterogeneous
71971654PLM_43					Ashed
FH-15-44	Canvas wrap fire house	None Detected	20% Cellulose	80% Other	Black Non Fibrous Heterogeneous
71971654PLM_44					Ashed
FH-15-45	Canvas wrap fire house	None Detected	20% Cellulose	80% Other	Black Non Fibrous Heterogeneous
71971654PLM_45					Ashed
M-16-46	Mastic under porcelain floor tile in kitchen/cafeteria	None Detected		100% Other	Gray Non Fibrous Heterogeneous
71971654PLM_46	no mastic present - cementitious material				Crushed
M-16-47	Mastic under porcelain floor tile in kitchen/cafeteria	None Detected		100% Other	Beige Non Fibrous Heterogeneous
71971654PLM_47	no mastic present - cementitious material				Crushed
M-16-48	Mastic under porcelain floor tile in kitchen/cafeteria	Not Analyzed			
71971654PLM_48	TEM				
VD-17-49	Vibration dampener around HVAC, space 1 - rm 11	None Detected	30% Synthetic Fibers	70% Other	Black Non Fibrous Heterogeneous
71971654PLM_49					Ashed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
VD-17-50	Vibration dampener around HVAC, space 1 - rm 11	None Detected	30% Synthetic Fibers	70% Other	Black Non Fibrous Heterogeneous
71971654PLM_50					Ashed
VD-17-51	Vibration dampener around HVAC, space 1 - rm 11	None Detected	30% Synthetic Fibers	70% Other	Black Non Fibrous Heterogeneous
71971654PLM_51					Ashed
BBI-18-52	Borwn kraft paper around yellow fiberglass around HVAC duct (space 1 - rm 11)	None Detected	45% Cellulose 45% Fiber Glass	10% Other	Silver Fibrous Heterogeneous
71971654PLM_52					Ashed
BBI-18-53	Borwn kraft paper around yellow fiberglass around HVAC duct (space 1 - rm 11)	None Detected	45% Cellulose 45% Fiber Glass	10% Other	Silver Fibrous Heterogeneous
71971654PLM_53					Ashed
BBI-18-54	Borwn kraft paper around yellow fiberglass around HVAC duct (space 1 - rm 11)	Not Analyzed			
71971654PLM_54	TEM				
G-19-55	Gaskets	60% Chrysotile		40% Other	Black Non Fibrous Heterogeneous
71971654PLM_55					Teased
G-19-56	Gaskets	None Detected	80% Cellulose	20% Other	Aqua Non Fibrous Heterogeneous
71971654PLM_56					Ashed
G-19-57	Gaskets	None Detected		100% Other	Red Non Fibrous Heterogeneous
71971654PLM_57					Ashed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TSI-20-58	Thermal system insulation small diameter straight run	None Detected	90% Cellulose	10% Other	Beige Fibrous Heterogeneous
71971654PLM_58					Ashed
TSI-20-59	Thermal system insulation small diameter straight run	None Detected	90% Cellulose	10% Other	Beige Fibrous Heterogeneous
71971654PLM_59					Ashed
TSI-20-60	Thermal system insulation small diameter straight run	None Detected	90% Cellulose	10% Other	Beige Fibrous Heterogeneous
71971654PLM_60					Ashed
HJ-21-61 - A	Hard joint TSI small diameter pipe	None Detected	90% Cellulose	10% Other	White Fibrous Heterogeneous
71971654PLM_61	wrap				Ashed
HJ-21-61 - B	Hard joint TSI small diameter pipe	None Detected	10% Fiber Glass	90% Other	Gray Non Fibrous Heterogeneous
71971654PLM_110	insulation				Crushed
HJ-21-62 - A	Hard joint TSI small diameter pipe	None Detected	90% Cellulose	10% Other	White Fibrous Heterogeneous
71971654PLM_62	wrap				Ashed
HJ-21-62 - B	Hard joint TSI small diameter pipe	None Detected	10% Fiber Glass	90% Other	Gray Non Fibrous Heterogeneous
71971654PLM_111	insulation				Crushed
HJ-21-63 - A	Hard joint TSI small diameter pipe	None Detected	90% Cellulose	10% Other	White Fibrous Heterogeneous
71971654PLM_63	wrap				Ashed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
HJ-21-63 - B	Hard joint TSI small diameter pipe	None Detected	10% Fiber Glass	90% Other	Gray Non Fibrous Heterogeneous
71971654PLM_112	insulation				Crushed
TSI-22-64	Thermal system insulation medium diameter straight run	None Detected	80% Cellulose	20% Other	Orange Fibrous Heterogeneous
71971654PLM_64					Ashed
TSI-22-65	Thermal system insulation medium diameter straight run	None Detected	80% Cellulose	20% Other	Orange Fibrous Heterogeneous
71971654PLM_65					Ashed
TSI-22-66	Thermal system insulation medium diameter straight run	None Detected	80% Cellulose	20% Other	Orange Fibrous Heterogeneous
71971654PLM_66					Ashed
HJ-23-67 - A	Hard joint TSI medium diameter pipe	None Detected	90% Cellulose	10% Other	Gray Fibrous Heterogeneous
71971654PLM_67	wrap				Ashed
HJ-23-67 - B	Hard joint TSI medium diameter pipe	None Detected	10% Fiber Glass	90% Other	Gray Non Fibrous Heterogeneous
71971654PLM_113	insulation				Crushed
HJ-23-68 - A	Hard joint TSI medium diameter pipe	None Detected	90% Cellulose	10% Other	Gray Fibrous Heterogeneous
71971654PLM_68	wrap				Ashed
HJ-23-68 - B	Hard joint TSI medium diameter pipe	None Detected	10% Fiber Glass	90% Other	Gray Non Fibrous Heterogeneous
71971654PLM_114	insulation				Crushed

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Lab Sample ID	Lab Notes				Treatment
HJ-23-69 - A	Hard joint TSI medium diameter pipe	None Detected	90% Cellulose	10% Other	Gray Fibrous Heterogeneous
71971654PLM_69	wrap				Ashed
HJ-23-69 - B	Hard joint TSI medium diameter pipe	None Detected	10% Fiber Glass	90% Other	Gray Non Fibrous Heterogeneous
71971654PLM_115	insulation				Crushed
TSI-24-70	Thermal system insulation large diameter straight run	None Detected	60% Cellulose	40% Other	Gray Fibrous Heterogeneous
71971654PLM_70					Ashed
TSI-24-71	Thermal system insulation large diameter straight run	None Detected	60% Cellulose	40% Other	Gray Fibrous Heterogeneous
71971654PLM_71					Ashed
TSI-24-72	Thermal system insulation large diameter straight run	None Detected	60% Cellulose	40% Other	Gray Fibrous Heterogeneous
71971654PLM_72					Ashed
HJ-25-73 - A	Hard joint TSI large diameter pipe	None Detected	90% Cellulose	10% Other	Gray Fibrous Heterogeneous
71971654PLM_73	wrap				Ashed
HJ-25-73 - B	Hard joint TSI large diameter pipe	None Detected	20% Fiber Glass	80% Other	Gray Non Fibrous Heterogeneous
71971654PLM_116	insulation				Crushed
HJ-25-74 - A	Hard joint TSI large diameter pipe	None Detected	90% Cellulose	10% Other	Gray Fibrous Heterogeneous
71971654PLM_74	wrap				Ashed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
HJ-25-74 - B	Hard joint TSI larg diameter pipe	60% Chrysotile		40% Other	Gray Fibrous Heterogeneous
71971654PLM_117	insulation				Teased
HJ-25-75 - A	Hard joint TSI larg diameter pipe	None Detected	90% Cellulose	10% Other	Gray Fibrous Heterogeneous
71971654PLM_75	wrap				Ashed
HJ-25-75 - B	Hard joint TSI larg diameter pipe	60% Chrysotile		40% Other	Gray Fibrous Heterogeneous
71971654PLM_118	insulation				Teased
FB-26-76	Beige/light red brick	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71971654PLM_76					Crushed
FB-26-77	Beige/light red brick	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71971654PLM_77					Crushed
FB-26-78	Beige/light red brick	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71971654PLM_78					Crushed

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Lab Use Only

Lab Order ID:

Client Code:

719711054

Company Contact Information

Company: GEL Engineering, LLC	Contact: Ron Sharpe/Sarah Browning
Address: 2040 Savage Road	Phone: 843/769-7378
Charleston, SC 29407	Fax: 843/769-7397
	Email: <input checked="" type="checkbox"/> ronald.sharpe@gel.com
	sarah.browning@gel.com

Billing/Invoice Information

Company:	
Contact:	Same
Address:	As Above

Turn Around Times

90 Min. <input type="checkbox"/>	48 Hours <input type="checkbox"/>
3 Hours <input type="checkbox"/>	72 Hours <input type="checkbox"/>
6 Hours <input type="checkbox"/>	96 Hours <input type="checkbox"/>
12 Hours <input type="checkbox"/>	120 Hours <input checked="" type="checkbox"/>
24 Hours <input type="checkbox"/>	144+ Hours <input type="checkbox"/>

Asbestos Test Types

PLM EPA 600/R-93/116 (PLM)	<input checked="" type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/> TWA (PTA) <input type="checkbox"/>	
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input checked="" type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other:	<input type="checkbox"/>

PO Number:

Project Name/Number: PPOE00521 Warehouse 11 (7/30/21)

✓ = TEM

* Run PLM + TEM simultaneously *

Sample ID #	Description/Location	Volume/Area	Comments
FT-1-1	streaked off-white floor tile mastic	~216 SF	Analyze tile + mastic
FT-1-2	#2; space 1, Rm 5	↓	↓
✓ FT-1-3	↓	↓	↓
FT-2-4	12x12 green camo floor tile + mastic; space 1 - Rms 2,3,7,8	~1,300 SF	Analyze tile + mastic
✓ FT-2-6	space 2 - Rm 10, space 3 - Rm 1,2	↓	↓
FT-3-7	12x12 streaked off white floor tile #1 + mastic; space 1 - Rms 1,4	~640 SF	Analyze tile + mastic
✓ FT-3-9	space 2 - Rms 1, 2	↓	↓

Total # of Samples 78

Relinquished by	Date/Time	Received by	Date/Time
	7/31/21 @ 1400		8/3 10:30 A

Accepted ☒

Rejected ☐

Page 1 of 3

A-P-017 EXP: 2/4/2021



* Run PLM+TEM simultaneously *

Scientific Analytical Institute

4604 Dundas Drive Greensboro, NC 27407

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Lab Use Only

Lab Order ID:

Client Code:

11971054

Sample ID #	Specific Location	Volume/Area	Comments
FT-4-10	12x12 pink floor tile + mastic	~100 SF	Analyze tile +
✓ FT-4-11	Space 2 - Bm 3	↓	mastic
✓ FT-4-12	↓	↓	↓
FT-5-13	12x12 streaked off-white	~1,100 SF	Analyze tile +
✓ FT-5-14	floor tile #3 + mastic	↓	mastic
✓ FT-5-15	Space 2-9,11 Space 3-Bms 3,4	↓	↓
MB-6-16	black moisture barrier under	~530 SF	Analyze moisture
✓ MB-6-17	floor tile	↓	barrier only
✓ MB-6-18	Space 3-Bms 3,4,5	↓	↓
FT-7-19	12x12 speckled white floor	~110 SF	Analyze mastic
✓ FT-7-20	tile + mastic	↓	+ tile
✓ FT-7-21	Space 2-Bm 6	↓	↓
FT-8-22	9x9 gray floor tile	~55 SF	Analyze floor tile
✓ FT-8-23	↓ Space 2-Bm 4	↓	+ mastic if present
✓ FT-8-24	↓	↓	↓
FT-9-25	light brown 9x9 floor tile +	~700 SF	Analyze tile +
✓ FT-9-26	mastic under camo floor tile	↓	mastic if present
✓ FT-9-27	Space 3-1,2,5	↓	↓
CT-10-28	1x1 white wormhole ceiling tile	~570 SF	Analyze ceiling
CT-10-29	Space 2-kitchen serving area	↓	tile only
CT-10-30	Space 3-bath 2	↓	↓
BBI-11-31	black batt insulation w/ pink	~3,000 SF	Analyze black
✓ BBI-11-32	fiberglass; Space 1-Bms 1,4,5,12	↓	batt only
✓ BBI-11-33	Space 2-8,11, Space 3-Bath 1	↓	↓
BBI-12-34	black batt insulation w/ yellow	~3,000 SF	Analyze black
BBI-12-35	fiberglass; Space 1-Bms 2,3,7,8	↓	batt only
✓ BBI-12-36	Space 2-Bms 1,2,3	↓	↓
TB-13-37	4 inch brown toeboards	~180 LF	Analyze toeboard
TB-13-38	Space 1-Mens bathroom/lower	↓	+ mastic if present
✓ TB-13-39	Space 3-(bathroom 1)	↓	↓
TB-14-40	4 inch black toeboards	~60 LF	Analyze toeboard
TB-14-41	+ mastic	↓	+ mastic
✓ TB-14-42	Space 3-bathroom 2	↓	↓
FH-15-43	canvas wrap fire hose	fire hoses	Analyze fire
FH-15-44	↓	↓	hose only
FH-15-45	↓	↓	↓



✓ = TEM

* Run PLM+ TEM simultaneously *

Scientific Analytical Institute

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Lab Use Only

Lab Order ID:

Client Code:

119711654

Sample ID #	Specific Location	Volume/Area	Comments
M-16-46	mastic under porcelain floor	~3,600 SF	Analyze mastic only
✓ M-16-47	tile in kitchen/catereria	↓	↓
✓ M-16-48	↓	↓	↓
VD-17-49	vibration dampener around	one dampener	Analyze dampener only
VD-17-50	HVAC, space 1 - Bm 11	↓	↓
VD-17-51	↓	↓	↓
PBI-18-52	brown Kraft paper around	~50 SF	Analyze Kraft paper only
✓ PBI-18-53	yellow fiberglass around	↓	↓
✓ PBI-18-54	HVAC duct (space 1 - Bm 11)	↓	↓
G-19-55	Gaskets	All gaskets on process	Analyze gasket only
G-19-56	↓	system flanges	↓
G-19-57	↓	↓	↓
TSI-20-58	thermal system insulation	Process	Analyze all TSI materials on process
TSI-20-59	small diameter straight run	system lines	system lines
TSI-20-60	↓	↓	↓
HJ-21-61	hard joint TSI small	↓	↓
HJ-21-62	diameter pipe	↓	↓
HJ-21-63	↓	↓	↓
TSI-22-64	thermal system insulation	↓	↓
TSI-22-65	medium diameter straight run	↓	↓
TSI-22-66	↓	↓	↓
HJ-23-67	hard joint TSI medium	↓	↓
HJ-23-68	diameter pipe	↓	↓
HJ-23-69	↓	↓	↓
TSI-24-70	thermal system insulation	↓	↓
TSI-24-71	large diameter straight run	↓	↓
TSI-24-72	↓	↓	↓
HJ-25-73	hard joint TSI large	↓	↓
HJ-25-74	diameter pipe	↓	↓
HJ-25-75	↓	↓	↓
FB-26-76	beige/light red brick	~2,000 SF	Analyze Brick only
FB-26-77	↓	↓	↓
FB-26-78	↓	↓	↓



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971813

Analysis ID: 71971813_TB

Date Received: 8/4/2021

Date Reported: 8/9/2021

Project: PPOE00521 - Warehouse 12

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes			(Wt. %)		(Wt. %)
FT-1-3-a	12x12 Off white streaked floor tile & mastic (top layer) in space 1 & 2	23%	73%	1.5 %	Chrysotile	1.3% - 1.6%
71971813TBS_1	tile					
FT-1-3-b	12x12 Off white streaked floor tile & mastic (top layer) in space 1 & 2	45%	-	0.55 %	Chrysotile	0.49% - 0.60%
71971813TBS_9	mastic					
FT-2-6-a	12x12 Browns speckled floor tile & mastic (bottom layer) in space 1 & 2	40.0%	51%	None Detected		
71971813TBS_2	tile					
FT-2-6-b	12x12 Browns speckled floor tile & mastic (bottom layer) in space 1 & 2	43%	-	None Detected		
71971813TBS_10	mastic					
BBI-3-9	Pink fiberglass insulation w/ black batt on walls & ceiling in space 1 & 2	87%	-	None Detected		
71971813TBS_3						
EJ-4-12	Expansion joint on ext walls	34%	-	None Detected		
71971813TBS_4						

Disclaimer: This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government.

Daniel Schwartz (12)

Analyst

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407

Approved Signatory

(336) 292-3888



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971813

Analysis ID: 71971813_TB

Date Received: 8/4/2021

Date Reported: 8/9/2021

Project: PPOE00521 - Warehouse 12

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes			(Wt. %)		(Wt. %)
FT-5-15-a	9x9 Brown streaked floor tile & mastic in space 5	21%	59%	19 %	Chrysotile	17% - 20.%
71971813TBS_5	tile					
FT-5-15-b	9x9 Brown streaked floor tile & mastic in space 5	31%	-	3.4 %	Chrysotile	3.1% - 3.8%
71971813TBS_11	mastic					
WG-6-18		13%	82%	None Detected		
71971813TBS_12						
M-9-27	Med diameter pipe - mastic on hard joint & along brick wall (drain pipe on west wall)	58%	-	1.3 %	Chrysotile	1.1% - 1.4%
71971813TBS_6						
C-13-39	Door caulk	30.%	-	None Detected		
71971813TBS_7						
G-15-45	Gaskets	41%	-	None Detected		
71971813TBS_8						

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Daniel Schwartz (12)

Analyst

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Approved Signatory



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11971813

Lab Use Only
 Lab Order ID: _____
 Client Code: _____

Company Contact Information	
Company: GEL Engineering, LLC	Contact: Ron Sharp/Sarah Browning
Address: 2040 Savage Road	Phone <input type="checkbox"/> : 843/769-7376
Charleston, SC 29407	Fax <input type="checkbox"/> : 843/769-7397
	Email <input checked="" type="checkbox"/> : ronald.sharp@gel.com
	sarah.browning@gel.com
Billing/Invoice Information	
Company:	90 Min. <input type="checkbox"/> 48 Hours <input type="checkbox"/>
Contact: Same	3 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>
Address: AS	6 Hours <input type="checkbox"/> 96 Hours <input type="checkbox"/>
Above	12 Hours <input type="checkbox"/> 120 Hours <input checked="" type="checkbox"/>
	24 Hours <input type="checkbox"/> 144+ Hours <input type="checkbox"/>

Asbestos Test Types	
PLM EPA 600/R-93/116 (PLM)	<input checked="" type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/> TWA (PTA) <input type="checkbox"/>	
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input checked="" type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>

PO Number:	
Project Name/Number:	PP0E00521 ~ Warehouse 12 8/2/21

✓ = TEM

* Run PLM+TEM simultaneously *

Sample ID #	Description/Location	Volume/Area	Comments
FT-1-1	12x12 Off White Streaked Floor Tile + Mastic	~468 sf	Analyze tile +
FT-1-2	(top layer) in space 1 + 2	↓	mastic
✓ FT-1-3	↓	↓	↓
FT-2-4	12x12 Brown Speckled Floor Tile + Mastic	~468 sf	Analyze tile +
FT-2-5	(Bottom Layer) in Space 1 + 2	↓	mastic
✓ FT-2-6	↓	↓	↓
BBI-3-7	Pink fiberglass insulation w/ black batt	~1650 sf	Analyze black batt
BBI-3-8	on walls + ceiling in Space 1 + 2	↓	only
✓ BBI-3-9	↓	↓	↓

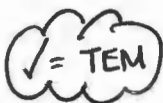
Total # of Samples 54

Relinquished by	Date/Time	Received by	Date/Time
<i>[Signature]</i>	8/3/21 @ 0800	<i>[Signature]</i>	8/4 10:30 A

Accepted ☒

Rejected ☐

Page 1 of 3
 A-F-017 EXP: 2/4/2021



* Run PLM+TEM simultaneously *

11/9/18/3

Scientific Analytical Institute

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Lab Use Only

Lab Order ID: _____

Client Code: _____

Sample ID #	Specific Location	Volume/Area	Comments
EJ-4-10	Expansion joint on ext. walls	~ 8 Joints	Analyze joint only ~
✓ EJ-4-11	↓	↓	no cementitious material
✓ EJ-4-12	↓	↓	↓
FT-5-13	9x9 Brown streaked floor tile	~63 sf	Analyze tile &
✓ FT-5-14	+ mastic in Space 5	↓	mastic
✓ FT-5-15	↓	↓	↓
WG-6-16	Window glaze. 2 Windows in	2 Windows	Analyze glaze only
WG-6-17	space 5	↓	↓
WG-6-18	↓	↓	↓
TSI-7-19	Med. diameter pipe - straight run	~7 vertical	Analyze tsi only
TSI-7-20	↓ (Drain pipe attached)	drain pipes	↓
TSI-7-21	↓ (to west wall)	found on	↓
HJ-8-22	Med. diameter - hard joint	West Wall	Analyze tsi only
HJ-8-23	↓ (Drain pipe attached)	↓	↓
HJ-8-24	↓ (to west wall)	↓	↓
M-9-25	Med diameter pipe - Mastic on	↓	Analyze mastic
M-9-26	hard joint & along brick wall	↓	only
✓ M-9-27	(Drain pipe on ↓ west wall)	↓	↓
HJ-10-28	Small diameter pipe - hard joint	Process System	Analyze tsi only
HJ-10-29	↓	Lines	↓
HJ-10-30	↓	↓	↓
TSI-11-31	Small diameter pipe - straight run	↓	Analyze tsi only
TSI-11-32	↓	↓	↓
TSI-11-33	↓	↓	↓
LDP-12-34	Loading dock pads	22 Loading HCS	Analyze pads only
LDP-12-35	↓	Loading dock	↓
LDP-12-36	↓	pads observed	↓
C-13-37	Door caulk	1 Exterior	Analyze caulk only
C-13-38	↓	Door	↓
✓ C-13-39	↓	↓	↓
FH-14-40	Fire hose	1 Fire hose	Analyze hose only
FH-14-41	↓	observed	↓
FH-14-42	↓	↓	↓
G-15-43	Gaskets	all gaskets	Analyze gasket
✓ G-15-44	↓	observed on fire	only
✓ G-15-45	↓	department pipes	↓
TSI-16-46	Med. diameter pipe - Straight run	All process	Analyze tsi only
TSI-16-47	↓	system lines	↓



Lab Use Only
Lab Order ID: 11971813
Client Code:

Page 3 of 3



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971812
Analysis ID: 71971812_PLM
Date Received: 8/4/2021
Date Reported: 8/16/2021

Project: PPOE00521 - Warehouse 12

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-1-1 - A	12x12 Off white streaked floor tile & mastic (top layer) in space 1 & 2	3% Chrysotile		97% Other	Tan Non Fibrous Homogeneous
71971812PLM_1	tile				Crushed, Dissolved
FT-1-1 - B	12x12 Off white streaked floor tile & mastic (top layer) in space 1 & 2	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971812PLM_55	mastic				Dissolved
FT-1-2 - A	12x12 Off white streaked floor tile & mastic (top layer) in space 1 & 2	3% Chrysotile		97% Other	Tan Non Fibrous Homogeneous
71971812PLM_2	tile				Crushed, Dissolved
FT-1-2 - B	12x12 Off white streaked floor tile & mastic (top layer) in space 1 & 2	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971812PLM_56	mastic				Dissolved
FT-1-3	12x12 Off white streaked floor tile & mastic (top layer) in space 1 & 2	Not Analyzed			
71971812PLM_3	TEM				
FT-2-4	12x12 Brows speckled floor tile & mastic (bottom layer) in space 1 & 2	None Detected		100% Other	Tan Non Fibrous Homogeneous
71971812PLM_4	tile only				Crushed, Ashed
FT-2-5 - A	12x12 Brows speckled floor tile & mastic (bottom layer) in space 1 & 2	None Detected		100% Other	Tan Non Fibrous Homogeneous
71971812PLM_5	tile				Crushed, Ashed
FT-2-5 - B	12x12 Brows speckled floor tile & mastic (bottom layer) in space 1 & 2	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971812PLM_57	mastic				Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAL. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Heather Davide (59)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971812
Analysis ID: 71971812_PLM
Date Received: 8/4/2021
Date Reported: 8/16/2021

Project: PPOE00521 - Warehouse 12

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-2-6	12x12 Brows speckled floor tile & mastic (bottom layer) in space 1 & 2	Not Analyzed			
71971812PLM_6	TEM				
BBI-3-7	Pink fiberglass insulation w/ black batt on walls & ceiling in space 1 & 2	None Detected	70% Cellulose	30% Other	Black, Brown Fibrous Heterogeneous
71971812PLM_7					Teased, Dissolved
BBI-3-8	Pink fiberglass insulation w/ black batt on walls & ceiling in space 1 & 2	None Detected	70% Cellulose	30% Other	Black, Brown Fibrous Heterogeneous
71971812PLM_8					Teased, Dissolved
BBI-3-9	Pink fiberglass insulation w/ black batt on walls & ceiling in space 1 & 2	Not Analyzed			
71971812PLM_9	TEM				
EJ-4-10	Expansion joint on ext walls	None Detected		100% Other	White Non Fibrous Homogeneous
71971812PLM_10					Crushed, Ashed
EJ-4-11	Expansion joint on ext walls	None Detected		100% Other	White Non Fibrous Homogeneous
71971812PLM_11					Crushed, Ashed
EJ-4-12	Expansion joint on ext walls	Not Analyzed			
71971812PLM_12	TEM				
FT-5-13 - A	9x9 Brown streaked floor tile & mastic in space 5	5% Chrysotile		95% Other	Brown Non Fibrous Homogeneous
71971812PLM_13	tile				Crushed, Dissolved

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Heather Davide (59)

Analyst



Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971812
Analysis ID: 71971812_PLM
Date Received: 8/4/2021
Date Reported: 8/16/2021

Project: PPOE00521 - Warehouse 12

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-5-13 - B	9x9 Brown streaked floor tile & mastic in space 5	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971812PLM_58	mastic				Dissolved
FT-5-14 - A	9x9 Brown streaked floor tile & mastic in space 5	5% Chrysotile		95% Other	Brown Non Fibrous Homogeneous
71971812PLM_14	tile				Crushed, Dissolved
FT-5-14 - B	9x9 Brown streaked floor tile & mastic in space 5	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971812PLM_59	mastic				Dissolved
FT-5-15	9x9 Brown streaked floor tile & mastic in space 5	Not Analyzed			
71971812PLM_15	TEM				
WG-6-16	Window glaze 2 windows in space 5	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971812PLM_16					Crushed
WG-6-17	Window glaze 2 windows in space 5	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971812PLM_17					Crushed
WG-6-18	Window glaze 2 windows in space 5	Not Analyzed			
71971812PLM_18	TEM				
TSI-7-19	Med diameter pipe - straight run (drain pipe attached to west wall)	None Detected	98% Cellulose	2% Other	Beige, Brown Fibrous Heterogeneous
71971812PLM_19					Teased, Crushed

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Heather Davide (59)

Analyst



Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971812
Analysis ID: 71971812_PLM
Date Received: 8/4/2021
Date Reported: 8/16/2021

Project: PPOE00521 - Warehouse 12

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TSI-7-20	Med diameter pipe - straight run (drain pipe attached to west wall)	None Detected	98% Cellulose	2% Other	Beige, Brown Fibrous Heterogeneous
71971812PLM_20					Teased, Crushed
TSI-7-21	Med diameter pipe - straight run (drain pipe attached to west wall)	None Detected	98% Cellulose	2% Other	Beige, Brown Fibrous Heterogeneous
71971812PLM_21					Teased, Crushed
HJ-8-22	Med diameter pipe - hard joint (drain pipe attached to west wall)	None Detected	95% Cellulose	5% Other	White, Brown Fibrous Heterogeneous
71971812PLM_22					Teased, Crushed
HJ-8-23	Med diameter pipe - hard joint (drain pipe attached to west wall)	None Detected	95% Cellulose	5% Other	White, Beige, Black Fibrous Heterogeneous
71971812PLM_23					Teased, Crushed
HJ-8-24	Med diameter pipe - hard joint (drain pipe attached to west wall)	None Detected	95% Cellulose	5% Other	White, Beige Fibrous Heterogeneous
71971812PLM_24					Teased, Crushed
M-9-25	Med diameter pipe - mastic on hard joint & along brick wall (drain pipe on west wall)	6% Chrysotile		94% Other	Black Non Fibrous Homogeneous
71971812PLM_25					Dissolved
M-9-26	Med diameter pipe - mastic on hard joint & along brick wall (drain pipe on west wall)	6% Chrysotile		94% Other	Black Non Fibrous Homogeneous
71971812PLM_26					Dissolved
M-9-27	Med diameter pipe - mastic on hard joint & along brick wall (drain pipe on west wall)	Not Analyzed			
71971812PLM_27	TEM				

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Heather Davide (59)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971812
Analysis ID: 71971812_PLM
Date Received: 8/4/2021
Date Reported: 8/16/2021

Project: PPOE00521 - Warehouse 12

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
HJ-10-28	Small diameter pipe - hard joint	None Detected	40% Fiber Glass 15% Cellulose	45% Other	Gray, White Fibrous Heterogeneous
71971812PLM_28					Teased, Crushed
HJ-10-29	Small diameter pipe - hard joint	30% Chrysotile		70% Other	Gray Fibrous Heterogeneous
71971812PLM_29					Teased, Crushed
HJ-10-30	Small diameter pipe - hard joint	5% Chrysotile		95% Other	Gray Fibrous Heterogeneous
71971812PLM_30					Teased, Crushed
TSI-11-31	Small diameter pipe - straight run	None Detected	90% Cellulose	10% Other	Beige, Brown Fibrous Heterogeneous
71971812PLM_31					Teased, Crushed
TSI-11-32	Small diameter pipe - straight run	None Detected	90% Cellulose	10% Other	Beige, Brown Fibrous Heterogeneous
71971812PLM_32					Teased, Crushed
TSI-11-33	Small diameter pipe - straight run	None Detected	90% Cellulose	10% Other	Beige, Brown Fibrous Heterogeneous
71971812PLM_33					Teased, Ashed
LDP-12-34	Loading dock pads	None Detected	60% Synthetic Fibers	40% Other	Black Non Fibrous Homogeneous
71971812PLM_34					Crushed, Dissolved
LDP-12-35	Loading dock pads	None Detected	60% Synthetic Fibers	40% Other	Black Non Fibrous Homogeneous
71971812PLM_35					Crushed, Dissolved

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Sarah Browning

Lab Order ID: 71971812
Analysis ID: 71971812_PLM
Date Received: 8/4/2021
Date Reported: 8/16/2021

Project: PPOE00521 - Warehouse 12

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
LDP-12-36	Loading dock pads	None Detected	60% Synthetic Fibers	40% Other	Black Non Fibrous Homogeneous
71971812PLM_36					Crushed, Dissolved
C-13-37	Door caulk	None Detected		100% Other	Brown, White Non Fibrous Homogeneous
71971812PLM_37					Crushed, Ashed
C-13-38	Door caulk	None Detected		100% Other	Brown, White Non Fibrous Homogeneous
71971812PLM_38					Crushed, Ashed
C-13-39	Door caulk	Not Analyzed			
71971812PLM_39	TEM				
FH-14-40	Fire hose	None Detected	15% Synthetic Fibers	85% Other	Red Non Fibrous Homogeneous
71971812PLM_40					Crushed, Ashed
FH-14-41	Fire hose	None Detected	15% Synthetic Fibers	85% Other	Red Non Fibrous Homogeneous
71971812PLM_41					Crushed, Ashed
FH-14-42	Fire hose	None Detected	15% Synthetic Fibers	85% Other	Red Non Fibrous Homogeneous
71971812PLM_42					Crushed, Ashed
G-15-43	Gaskets	None Detected		100% Other	Black Non Fibrous Homogeneous
71971812PLM_43					Crushed, Ashed

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



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Charleston, SC 29407

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Lab Order ID: 71971812
Analysis ID: 71971812_PLM
Date Received: 8/4/2021
Date Reported: 8/16/2021

Project: PPOE00521 - Warehouse 12

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
G-15-44	Gaskets	None Detected		100% Other	Black Non Fibrous Homogeneous
71971812PLM_44					Crushed, Ashed
G-15-45	Gaskets	Not Analyzed			
71971812PLM_45	TEM				
TSI-16-46	Med diameter pipe - straight run	None Detected	90% Cellulose	10% Other	Beige, Gray Fibrous Heterogeneous
71971812PLM_46					Teased, Crushed
TSI-16-47	Med diameter pipe - straight run	None Detected	90% Cellulose	10% Other	Beige, Gray Fibrous Heterogeneous
71971812PLM_47					Teased, Crushed
TSI-16-48	Med diameter pipe - straight run	None Detected	90% Cellulose	10% Other	Beige, Gray Fibrous Heterogeneous
71971812PLM_48					Teased, Crushed
HJ-17-49	Med diameter pipe - hard joint	20% Chrysotile		80% Other	Gray, White Fibrous Heterogeneous
71971812PLM_49					Teased, Crushed
HJ-17-50	Med diameter pipe - hard joint	20% Chrysotile		80% Other	Gray, White Fibrous Heterogeneous
71971812PLM_50					Teased, Crushed
HJ-17-51	Med diameter pipe - hard joint	20% Chrysotile		80% Other	Gray, White Fibrous Heterogeneous
71971812PLM_51					Teased, Crushed

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Analyst



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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971812
Analysis ID: 71971812_PLM
Date Received: 8/4/2021
Date Reported: 8/16/2021

Project: PPOE00521 - Warehouse 12

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CC-18-52	Cloth curtain hanging from ceiling in middle of warehouse 12	None Detected	98% Cellulose	2% Other	Brown, Black Fibrous Heterogeneous
71971812PLM_52					Teased
CC-18-53	Cloth curtain hanging from ceiling in middle of warehouse 12	None Detected	98% Cellulose	2% Other	Brown, Black Fibrous Heterogeneous
71971812PLM_53					Teased
CC-18-54	Cloth curtain hanging from ceiling in middle of warehouse 12	None Detected	98% Cellulose	2% Other	Brown, Black Fibrous Heterogeneous
71971812PLM_54					Teased

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Heather Davide (59)

Analyst



Approved Signatory



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4604 Dundas Dr. Greensboro, NC 27407
Phone: 336.292.3888 Fax: 336.292.3313
www.sailab.com lab@sailab.com

Lab Use Only 11971812
Lab Order ID: _____
Client Code: _____

Company Contact Information	
Company: GEL Engineering, LLC	Contact: Ron Sharpe/Sarah Browning
Address: 2040 Savage Road	Phone <input type="checkbox"/> : 843/769-7378
Charleston, SC 29407	Fax <input type="checkbox"/> : 843/769-7397
	Email <input checked="" type="checkbox"/> : ron.sharpe@gel.com
	sarah.browning@gel.com
Billing/Invoice Information	
Company:	90 Min. <input type="checkbox"/> 48 Hours <input type="checkbox"/>
Contact: Same	3 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>
Address: AS	6 Hours <input type="checkbox"/> 96 Hours <input type="checkbox"/>
ABOVE	12 Hours <input type="checkbox"/> 120 Hours <input checked="" type="checkbox"/>
	24 Hours <input type="checkbox"/> 144* Hours <input type="checkbox"/>

Asbestos Test Types	
PLM EPA 600/R-93/116 (PLM)	<input checked="" type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/> TWA (PTA) <input type="checkbox"/>	
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input checked="" type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>

PO Number:	
Project Name/Number:	PP0E00521 ~ Warehouse 12 8/2/21

✓ = TEM

* Run PLM+TEM simultaneously *

Sample ID #	Description/Location	Volume/Area	Comments
FT-1-1	12x12 Off White Streaked Floor Tile + Mastic	~468 sf	Analyze tile +
FT-1-2	(top layer) in space 1 + 2	↓	mastic
✓ FT-1-3	↓	↓	↓
FT-2-4	12x12 Brown Speckled Floor Tile + Mastic	~468 sf	Analyze tile +
FT-2-5	(Bottom Layer) in Space 1 + 2	↓	mastic
✓ FT-2-6	↓	↓	↓
BBI-3-7	Pink fiberglass insulation w/ black batt	~1650 sf	Analyze black batt
BBI-3-8	on walls + ceiling in Space 1 + 2	↓	only
✓ BBI-3-9	↓	↓	↓

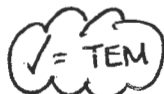
Total # of Samples 54

Relinquished by	Date/Time	Received by	Date/Time
<u>[Signature]</u>	8/3/21 @ 0800	<u>[Signature]</u>	8/4 1030A

Page 1 of 3
A-F-017 EXP: 2/4/2021

Accepted ☒

Rejected ☐



* Run PLM+TEM simultaneously *

11971812

Scientific Analytical Institute

4604 Dundas Drive Greensboro, NC 27407

Phone: 336.292.3888 Fax: 336.292.3313

www.sailab.com

lab@sailab.com

Lab Use Only

Lab Order ID: _____

Client Code: _____

Sample ID #	Specific Location	Volume/Area	Comments
EJ-4-10	Expansion joint on ext. walls	~ 8 joints	Analyze joint only ~
✓ EJ-4-11	↓	↓	no cementitious material
✓ EJ-4-12	↓	↓	↓
FT-5-13	4x9 Brown streaked floor tile	~63 sf	Analyze tile +
✓ FT-5-14	+ mastic in Space 5	↓	mastic
✓ FT-5-15	↓	↓	↓
WG-6-16	Window glaze, 2 Windows in	2 Windows	Analyze glaze only
WG-6-17	space 5	↓	↓
WG-6-18	↓	↓	↓
TSI-7-19	Med. diameter pipe - straight run	~7 vertical	Analyze tsi only
TSI-7-20	↓ (Drain pipe attached)	drain pipes	↓
TSI-7-21	↓ (to west wall)	found on	↓
HJ-8-22	Med. diameter - hard joint	West Wall	Analyze tsi only
HJ-8-23	↓ (Drain pipe attached)	↓	↓
HJ-8-24	↓ (to west wall)	↓	↓
M-9-25	Med diameter pipe - Mastic on	↓	Analyze mastic
M-9-26	hard joint + along brick wall	↓	only
✓ M-9-27	(Drain pipe on ↓ west wall)	↓	↓
HJ-10-28	Small diameter pipe - hard joint	Process System	Analyze tsi only
HJ-10-29	↓	Lines	↓
HJ-10-30	↓	↓	↓
TSI-11-31	Small diameter pipe - straight run	↓	Analyze tsi only
TSI-11-32	↓	↓	↓
TSI-11-33	↓	↓	↓
LDP-12-34	Loading dock pads	22 Loading HCS	Analyze pads only
LDP-12-35	↓	Loading dock	↓
LDP-12-36	↓	pads observed	↓
C-13-37	Door caulk	1 Exterior	Analyze caulk only
C-13-38	↓	Door	↓
✓ C-13-39	↓	↓	↓
FH-14-40	Fire hose	1 Fire hose	Analyze hose only
FH-14-41	↓	observed	↓
FH-14-42	↓	↓	↓
G-15-43	Gaskets	all gaskets	Analyze gasket
✓ G-15-44	↓	observed on fire	only
✓ G-15-45	↓	department pipes	↓
TSI-16-46	Med. diameter pipe - Straight run	All process	Analyze tsi only
TSI-16-47	↓	system lines	↓



Lab Use Only
 Lab Order ID: _____
 Client Code: _____

Page 3 of 3



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971950

Analysis ID: 71971950_TB

Date Received: 8/6/2021

Date Reported: 8/13/2021

Project: PPOE00521 - Warehouse 13

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes			(Wt. %)		(Wt. %)
FT-3-9-a	12x12 Beige floor tile #1 on east exterior wall	30.%	21%	30. %	Chrysotile	27% - 33%
71971950TBS_1	tile					
FT-3-9-b	12x12 Beige floor tile #1 on east exterior wall	56%	-	0.44 %	Chrysotile	0.39% - 0.48%
71971950TBS_20	mastic					
BBI-5-15	Yellow BBI behind walls in space 2, rms 3,4,5	85%	-	None Detected		
71971950TBS_2						
BBI-6-18	Pink BBI behind walls and/or above ceilings in all space 2, space 4-rm 1, space 6, space 9-rms 3,4,5	88%	-	None Detected		
71971950TBS_3						
TB-7-21-a	4" Brown toeboard w/ mastic all of space 2 & space 3	46%	-	None Detected		
71971950TBS_4	toeboard					
TB-7-21-b	4" Brown toeboard w/ mastic all of space 2 & space 3	31%	-	None Detected		
71971950TBS_21	mastic					

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Daniel Schwartz (31)

Analyst

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

Approved Signatory



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

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2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
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Lab Order ID: 71971950

Analysis ID: 71971950_TB

Date Received: 8/6/2021

Date Reported: 8/13/2021

Project: PPOE00521 - Warehouse 13

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL (Wt. %)
Lab Sample ID	Lab Notes			(Wt. %)		
FT-9-27-a	Cream 12x12 FT w/ mastic space 2 rooms 1 & 2, space 3	30.%	70.%	0.0055 %	Chrysotile	0.0049% - 0.0060%
71971950TBS_5	tile					
FT-9-27-a	Cream 12x12 FT w/ mastic space 2 rooms 1 & 2, space 3	56%	-	0.44 %	Chrysotile	0.39% - 0.48%
71971950TBS_22	mastic					
DC-10-30	Door caulk in vent rm #2 & rm #3	20.%	-	0.80 % 0.80 %	Chrysotile Anthophyllite	0.72% - 0.88% 0.72% - 0.88%
71971950TBS_6						
BBI-12-36	Brown kraft paper around yellow fiberglass around HVAC duct space 3	94%	-	None Detected		
71971950TBS_7						
M-15-45	Mastic under porcelain faux brick tile (space 4, rooms 1&2)	15%	-	None Detected		
71971950TBS_8						
TB-16-48-a	4" Black toeboard w/ mastic (space 5) & space 9, rm 3&5	32%	-	None Detected		
71971950TBS_9	toeboard					

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Project: PPOE00521 - Warehouse 13

Sample ID	Description	Organic	Acid Sol.	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes	(Wt. %)	(Wt. %)	(Wt. %)		(Wt. %)
TB-16-48-b	4" Black toeboard w/ mastic (space 5) & space 9, rm 3&5	83%	-	None Detected		
71971950TBS_23	mastic					
TB-18-54-a	4" Black #2 toeboard (space &, room 1) & space 9, rm 7	34%	-	None Detected		
71971950TBS_10	toeboard					
TB-18-54-b	4" Black #2 toeboard (space &, room 1) & space 9, rm 7	43%	-	None Detected		
71971950TBS_24	mastic					
WG-20-60	Window Glaze	12%	88%	None Detected		
71971950TBS_30						
FT-23-75-a	12x12 Black FT & mastic in space 9, 1,2,3	22%	78%	None Detected		
71971950TBS_11	tile					
FT-23-75-b	12x12 Black FT & mastic in space 9, 1,2,3	55%	-	0.45 %	Chrysotile	0.40% - 0.49%
71971950TBS_25	mastic					

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Date Reported: 8/13/2021

Project: PPOE00521 - Warehouse 13

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes			(Wt. %)		(Wt. %)
FT-24-78-a	12x12 Off white FT w/ mastic in space 9, rms 4,5,6,8,9	32%	68%	None Detected		
71971950TBS_12	tile					
FT-24-78-b	12x12 Off white FT w/ mastic in space 9, rms 4,5,6,8,9	85%	-	0.15 %	Chrysotile	0.13% - 0.16%
71971950TBS_26	mastic					
FT-25-81-a	12x12 Beige FT #2 w/ mastic (middle layer space 9-rm 10)	23%	53%	0.48 %	Chrysotile	0.43% - 0.52%
71971950TBS_13	tile					
FT-25-81-b	12x12 Beige FT #2 w/ mastic (middle layer space 9-rm 10)	46%	-	None Detected		
71971950TBS_27	mastic					
FT-26-84-a	9x9 Tan FT w/ mastic (3rd/bottom layer space 9-rm 10) & space 9, rm 2 (only layer)	48%	-	None Detected		
71971950TBS_14	mastic 1					
FT-26-84-b	9x9 Tan FT w/ mastic (3rd/bottom layer space 9-rm 10) & space 9, rm 2 (only layer)	38%	16%	0.46 %	Chrysotile	0.42% - 0.51%
71971950TBS_28	tile					

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Analysis ID: 71971950_TB

Date Received: 8/6/2021

Date Reported: 8/13/2021

Project: PPOE00521 - Warehouse 13

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos (Wt. %)		LCL-UCL (Wt. %)
Lab Sample ID	Lab Notes					
FT-26-84-c	9x9 Tan FT w/ mastic (3rd/bottom layer space 9-rm 10) & space 9, rm 2 (only layer)	50.%	-	None Detected		
71971950TBS_31	mastic 2					
FT-27-87-a	9x9 Brown FT w/ mastic (2nd/bottom layer space 9, rm 1&9)	25%	11%	None Detected		
71971950TBS_15	tile					
FT-27-87-b	9x9 Brown FT w/ mastic (2nd/bottom layer space 9, rm 1&9)	68%	-	9.7 %	Chrysotile	8.7% - 11%
71971950TBS_29	mastic					
DM-29-93	White ductwork mastic on HVAC ducts in space 9 above ceiling	43%	-	None Detected		
71971950TBS_16						
BBI-30-96	Tan BBI (space 9-rms 1&9) behind wood-panels	94%	-	None Detected		
71971950TBS_17						
C-40-126	Exterior caulk along door frame(s), vents, & overhang on east side (white)	75%	-	None Detected		
71971950TBS_18						

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Daniel Schwartz (31)

Analyst

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407

Approved Signatory

(336) 292-3888



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971950

Analysis ID: 71971950_TB

Date Received: 8/6/2021

Date Reported: 8/13/2021

Project: PPOE00521 - Warehouse 13

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
<i>Lab Sample ID</i>	<i>Lab Notes</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>
C-41-129	Exterior caulk (silver) on west side door frame entrance	78%	-	None Detected	
71971950TBS_19					

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Lab Use Only
Lab Order ID: 11971938
Client Code: _____

Company Contact Information

Company: GEL Engineering, LLC
Address: 2040 Savage Road
Charleston, SC 29407
Contact: Ron Sharpe/Sarah Browning
Phone: 843-769-7376
Fax: 843-769-7397
Email: ☒ ronald.sharpe@gel.com
sarah.browning@gel.com

Billing/Invoice Information

Company:
Contact: Same
Address: AS
Above

Turn Around Times

90 Min. ☐ 48 Hours ☐
3 Hours ☐ 72 Hours ☐
6 Hours ☐ 96 Hours ☐
12 Hours ☐ 120 Hours ☒
24 Hours ☐ 144+ Hours ☐

PO Number:

Project Name/Number: PPOE00521 - Warehouse 13

(8/3 + 8/4/21)

Asbestos Test Types

PLM EPA 600/R-93/116 (PLM) ☒
Positive stop ☐
PLM Point Count 400 (PT4) ☐
PLM Point Count 1000 (PTM) ☐
PCM NIOSH 7400-A Rules (PCM) ☐
B Rules (PCB) ☐ TWA (PTA) ☐
TEM AHERA (AHE) ☐
TEM Level II (LII) ☐
TEM NIOSH 7402 (TNI) ☐
TEM Bulk Qualitative (TBL) ☐
TEM Bulk Chatfield (TBS) ☒
TEM Bulk Quantitative (TBQ) ☐
TEM Wipe ASTM D6480-05 ☐
TEM Microvac ASTM D5755-02 ☐
TEM Water EPA 100.2 (TW1) ☐
Other: ☐

✓ = TEM

* Run PLM+TEM simultaneously *

Sample ID #	Description/Location	Volume/Area	Comments
CB-1-1	Cement Board in Space 1 walls	~1150 SF	Analyze cementboard
CB-1-2	↓ + ceiling	↓	only
CB-1-3	↓	↓	↓
FH-2-4	Fire Hose	All fire hoses	Analyze hose only
FH-2-5	↓	found	↓
FH-2-6	↓	↓	↓
FT-3-7	12x12 Beige Floor Tile #1	150 SF	Analyze tile
FT-3-8	on East exterior wall	↓	+ mastic
FT-3-9	↓	↓	↓
TSI-4-10	Thermal System Insulation on Vaneaxia	180 SF	Analyze all layers
TSI-4-11	fan ↓ (cont'd on Pg 2)	↓	↓

Total # of Samples 129

Relinquished by	Date/Time	Received by	Date/Time
	8/5/21 @ 0800		8/6/21 10:30 A

Page 1 of 5
A-F-017 EXP: 2/4/2021

Accepted ☒

Rejected ☐



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✓ = TEM * Run PLM+TEM simultaneously*

Sample ID #	Specific Location	Volume/Area	Comments
TSI-4-12	Thermal System Insulation (Cont From prev page)	~180 SF	Analyze all layers
BBI-5-13	Yellow BBI behind walls in	~320 SF	Analyze black
BBI-5-14	Space 2, RMS 3, 4, 5	↓	batt only
✓ BBI-5-15	↓	↓	↓
BBI-6-16	Pink BBI behind walls and/or	~5,850 SF	Analyze black
BBI-6-17	above ceilings in All Space 2, Space 4-	↓	batt only
✓ BBI-6-18	Rm 1, Space 6, Space 9-RMS 3, 4, 5	↓	↓
TB-7-19	4" Brown toe board w/mastic	~500 LF	Analyze toe board
TB-7-20	All of Space 2 + Space 3	↓	+ mastic only
✓ TB-7-21	↓	↓	↓
CM-8-22	Cement thin set under Porcelain	~900 SF	Analyze cement
CM-8-23	faux brick tile in All of Space 2	↓	material only
CM-8-24	minus RMS 1+2	↓	↓
FT-9-25	Cream 12x12 FW/ mastic	~1,245 SF	Analyze tile +
✓ FT-9-26	Space 2 Rooms 1+2, Space 3	↓	mastic
✓ FT-9-27	↓	↓	↓
DC-10-28	Door caulk in vent rm #2	16 total doors	Analyze caulk only
DC-10-29	+ Rm #3	↓	↓
✓ DC-10-30	↓	↓	↓
CT-11-31	1x1 Smooth ceiling tile in	~1,100 SF	Analyze ceiling
CT-11-32	Space 3	↓	tile only
CT-11-33	↓	↓	↓
BBI-12-34	Brown kraft paper around yellow	~300 SF	Analyze kraft
BBI-12-35	fiberglass around HVAC duct	↓	paper only
✓ BBI-12-36	Space 3	↓	↓
CT-13-37	1x1 Swirl CT (Space 4, room 1)	~740 SF	Analyze ceiling
CT-13-38	↓	↓	tile only
CT-13-39	↓	↓	↓
CT-14-40	2x4 Wormhole CT (Space 4, room 2)	~2,200 SF	Analyze ceiling
CT-14-41	+ Space 9 → RMS 3, 4, 5	↓	tile only
CT-14-42	↓	↓	↓
M-15-43	Mastic under porcelain faux brick	~980 SF	Analyze mastic
M-15-44	tile (Space 4, rooms 1+2)	↓	only
✓ M-15-45	↓	↓	↓
TB-16-46	4" Black toe board w/mastic	~180 LF	Analyze toe board
TB-16-47	(Space 5) + Space 9, RM 3+5	↓	+ mastic
✓ TB-16-48	↓	↓	↓



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Lab Use Only: 11971928
 Lab Order ID:
 Client Code:

* Run PLM+TEM simultaneously *

Sample ID #	Specific Location	Volume/Area	Comments
S-17-44	Textured surfacing on ceiling	512 SF	Analyze surfacing
S-17-50	in space 5	↓	only
S-17-51	↓	↓	↓
TB-18-52	4" Black #2 toe board	80 LF	Analyze toe board
TB-18-53	(Space 7, Room 1) +	↓ 110	+ mastic
TB-18-54	Space 9, RM 7 ↓	↓	↓
CW-19-55	Canvas wrap on rectangular	200 SF	Analyze canvas
CW-19-56	AHU upstairs adjacent to Space 7	↓	wrap only
CW-19-57	↓	↓	↓
WG-20-58	Window glaze - (space 8 between)	2 Windows	Analyze window
WG-20-59	rooms 1 & 2	↓	glaze only
WG-20-60	↓	↓	↓
PC-21-61	Popcorn Ceiling (all space 2)	~1166 SF	Analyze popcorn
PC-21-62	↓	↓	ceiling only
PC-21-63	↓	↓	↓
PC-21-64	↓	↓	↓
PC-21-65	↓	↓	↓
DW-22-66	Drywall + joint compound	~5100 SF	Analyze drywall
DW-22-67	All space 2, Space 6, Space 4-	↓	+ joint compound
DW-22-68	room 2 (2 walls only), Space 9-	↓	↓
DW-22-69	room 3 (1 wall), Space 9-room 5	↓	↓
DW-22-70	(1 wall)	↓	↓
DW-22-71	↓	↓	↓
DW-22-72	↓	↓	↓
FT-23-73	12x12 Black FT + mastic.	~ [redacted]	Analyze floor tile
FT-23-74	in Space 9, [redacted] 1, 2, 3	1,300 SF	+ mastic
FT-23-75	↓	↓	↓
FT-24-76	12x12 Off White FT w/mastic	~1,750 SF	Analyze floor tile
FT-24-77	in Space 9, RMs 4, 5, 6, 8, 9	↓	+ mastic
FT-24-78	↓	↓	↓
FT-25-79	12x12 Beige FT w/mastic	~108 SF	Analyze floor tile
FT-25-80	(middle layer Space 9-rm 10)	↓	+ mastic
FT-25-81	↓	↓	↓
FT-26-82	9x9 Tan FT w/mastic	~950 SF	Analyze floor tile
FT-26-83	(3rd/bottom layer Space 9-rm 10)	↓	+ mastic
FT-26-84	+ Space 9, RM 2 (only layer)	↓	↓
FT-27-85	9x9 Brown FT w/mastic	~800 SF	Analyze floor tile
FT-27-86	(2nd/bottom layer Space 9, RM 1+9)	↓	+ mastic
FT-27-87	↓	↓	↓



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Lab Use Only 11971938
 Lab Order ID:
 Client Code:

* Run PLM+ TEM simultaneously *

Sample ID #	Specific Location	Volume/Area	Comments
VD-28-88	Vibration dampener on HVAC unit	1 Unit observed	Analyze vibration
VD-28-89	Space 9 - rm 3	↓	dampener only
VD-28-90	↓	↓	↓
DM-29-91	White ductwork mastic on	~100 SF	Analyze mastic
DM-29-92	HVAC ducts in Space 9 above	↓	only.
✓ DM-29-93	↓ ceiling	↓	↓
BBI-30-94	Tan BBI - (Space 9 - rms 1+9)	~ 675 SF	Analyze BBI only
✓ BBI-30-95	behind wood-panels	↓	↓
ABI-30-96	↓	↓	↓
FB-31-97	Fire Brick, Red (Machine Pits)	8100 SF	Analyze Brick only
FB-31-98	↓	↓	↓
FB-31-99	↓	↓	↓
FB-32-100	Fire Brick, Tan (Walls up to	14,500 SF	Analyze Brick only
FB-32-101	downstairs)	↓	↓
FB-32-102	↓	↓	↓
TSI-33-103	Thermal system insulation, Large	Stream Pipes	Analyze all layers
TSI-33-104	dia pipe, straight run	↓	present
TSI-33-105	↓	↓	↓
TSI-34-106	Thermal system insulation, med.	↓	↓
TSI-34-107	dia pipe, straight run	↓	↓
TSI-34-108	↓	↓	↓
TSI-35-109	Thermal system insulation, med	↓	↓
TSI-35-110	dia. pipe, hard joints	↓	↓
TSI-35-111	↓	↓	↓
TSI-36-112	Thermal system insulation, large	↓	↓
TSI-36-113	dia pipe, hard joints	↓	↓
TSI-36-114	↓	↓	↓
TSI-37-115	Thermal system insulation, small	↓	↓
TSI-37-116	dia pipes, straight runs + hard	↓	↓
TSI-37-117	joints.	↓	↓
TSI-38-118	Thermal System Insulation, Hard	All other process	↓
TSI-38-119	joint on all other process	system pipes	↓
TSI-38-120	systems	↓	↓
TSI-39-121	Thermal System Insulation, Straight	↓	↓
TSI-39-122	run on all other process	↓	↓
TSI-39-123	systems.	↓	↓
C-40-124	Exterior caulk along door frame(s),	~ 90 LF	Analyze caulk only
C-40-125	vents, + overhang on East side	↓	↓
✓ C-40-126	(white)	↓	↓



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971938
Analysis ID: 71971938_PLM
Date Received: 8/6/2021
Date Reported: 8/16/2021

Project: PPOE00521 - Warehouse 13

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CB-1-1	Cement board in space 1 walls & ceiling	15% Chrysotile		85% Other	Gray Non Fibrous Homogeneous
71971938PLM_1					Crushed
CB-1-2	Cement board in space 1 walls & ceiling	15% Chrysotile		85% Other	Gray Non Fibrous Homogeneous
71971938PLM_2					Crushed
CB-1-3	Cement board in space 1 walls & ceiling	15% Chrysotile		85% Other	Gray Non Fibrous Homogeneous
71971938PLM_3					Crushed
FH-2-4	Fire hose	None Detected	60% Cellulose 20% Synthetic Fibers	20% Other	Black, Tan Fibrous Heterogeneous
71971938PLM_4					Ashed
FH-2-5	Fire hose	None Detected	60% Cellulose 20% Synthetic Fibers	20% Other	Black, White Fibrous Heterogeneous
71971938PLM_5					Ashed
FH-2-6	Fire hose	None Detected	60% Cellulose 20% Synthetic Fibers	20% Other	Black, White Fibrous Heterogeneous
71971938PLM_6					Ashed
FT-3-7 - A	12x12 Beige floor tile #1 on East exterior wall	3% Chrysotile		97% Other	Tan Non Fibrous Homogeneous
71971938PLM_7	tile				Dissolved
FT-3-7 - B	12x12 Beige floor tile #1 on East exterior wall	2% Chrysotile		98% Other	Black Non Fibrous Homogeneous
71971938PLM_130	mastic				Dissolved

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Yanelis Delgado (174)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



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Date Received: 8/6/2021
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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-3-8 - A	12x12 Beige floor tile #1 on East exterior wall	3% Chrysotile		97% Other	Tan Non Fibrous Homogeneous
71971938PLM_8	tile				Dissolved
FT-3-8 - B	12x12 Beige floor tile #1 on East exterior wall	2% Chrysotile		98% Other	Black Non Fibrous Homogeneous
71971938PLM_131	mastic				Dissolved
FT-3-9	12x12 Beige floor tile #1 on East exterior wall	Not Analyzed			
71971938PLM_9	TEM				
TSI-4-10 - A	Thermal system insulation on vaneaxial fan	25% Chrysotile		75% Other	Grayish Non Fibrous Heterogeneous
71971938PLM_10	insulation				Dissolved
TSI-4-10 - B	Thermal system insulation on vaneaxial fan	None Detected	60% Cellulose	40% Other	Cream Fibrous Homogeneous
71971938PLM_132	wrap				Ashed
TSI-4-11 - A	Thermal system insulation on vaneaxial fan	25% Chrysotile		75% Other	Grayish Non Fibrous Heterogeneous
71971938PLM_11	insulation				Dissolved
TSI-4-11 - B	Thermal system insulation on vaneaxial fan	None Detected	60% Cellulose	40% Other	Cream Fibrous Homogeneous
71971938PLM_133	wrap				Ashed
TSI-4-12 - A	Thermal system insulation on vaneaxial fan	25% Chrysotile		75% Other	Grayish Non Fibrous Heterogeneous
71971938PLM_12	insulation				Dissolved

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



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Lab Order ID: 71971938
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Date Received: 8/6/2021
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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TSI-4-12 - B	Thermal system insulation on vaneaxial fan	None Detected	60% Cellulose	40% Other	Cream Fibrous Homogeneous
71971938PLM_134	wrap				Ashed
BBI-5-13	Yellow BBI behind walls in space 2, rms 3m4,5	None Detected	60% Cellulose	40% Other	Brown, Black Fibrous Heterogeneous
71971938PLM_13					Ashed
BBI-5-14	Yellow BBI behind walls in space 2, rms 3m4,5	None Detected	60% Cellulose	40% Other	Brown, Black Fibrous Heterogeneous
71971938PLM_14					Ashed
BBI-5-15	Yellow BBI behind walls in space 2, rms 3m4,5	Not Analyzed			
71971938PLM_15	TEM				
BBI-6-16	Pink BBI behind walls and/or above ceiling in all space 2, space 4-rm1, space 6, space 9-	None Detected	60% Cellulose	40% Other	Black, Brown Fibrous Heterogeneous
71971938PLM_16					Ashed
BBI-6-17	Pink BBI behind walls and/or above ceiling in all space 2, space 4-rm1, space 6, space 9-	None Detected	60% Cellulose	40% Other	Black, Brown Fibrous Heterogeneous
71971938PLM_17					Ashed
BBI-6-18	Pink BBI behind walls and/or above ceiling in all space 2, space 4-rm1, space 6, space 9-	Not Analyzed			
71971938PLM_18	TEM				
TB-7-19 - A	4" Brown toeboard w/ mastic all of space 2 & space 3	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971938PLM_19	baseboard				Ashed

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Date Received: 8/6/2021
Date Reported: 8/16/2021

Project: PPOE00521 - Warehouse 13

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TB-7-19 - B	4" Brown toeboard w/ mastic all of space 2 & space 3	8% Chrysotile		92% Other	Yellow, Cream Non Fibrous Heterogeneous
71971938PLM_135	mastic/leveling compound				Crushed, Dissolved
TB-7-20 - A	4" Brown toeboard w/ mastic all of space 2 & space 3	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971938PLM_20	baseboard				Ashed
TB-7-20 - B	4" Brown toeboard w/ mastic all of space 2 & space 3	None Detected		100% Other	Cream Non Fibrous Homogeneous
71971938PLM_136	mastic				Ashed
TB-7-21	4" Brown toeboard w/ mastic all of space 2 & space 3	None Detected	10% Synthetic Fibers	90% Other	Gray Non Fibrous Homogeneous
71971938PLM_21					Crushed
CM-8-22	Cement thin set under porcelain faux brick tile in all of space 2 minus rms 1 & 2	None Detected	10% Synthetic Fibers	90% Other	Gray Non Fibrous Homogeneous
71971938PLM_22					Crushed
CM-8-23	Cement thin set under porcelain faux brick tile in all of space 2 minus rms 1 & 2	None Detected	10% Synthetic Fibers	90% Other	Gray Non Fibrous Homogeneous
71971938PLM_23					Crushed
CM-8-24	Cement thin set under porcelain faux brick tile in all of space 2 minus rms 1 & 2	None Detected	10% Synthetic Fibers	90% Other	Gray Non Fibrous Homogeneous
71971938PLM_24					Crushed
FT-9-25 - A	Cream 12x12 FT w/ mastic space 2 rooms 1 & 2, space 3	None Detected		100% Other	Cream Non Fibrous Homogeneous
71971938PLM_25	tile				Dissolved

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
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Analysis ID: 71971938_PLM
Date Received: 8/6/2021
Date Reported: 8/16/2021

Project: PPOE00521 - Warehouse 13

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-9-25 - B	Cream 12x12 FT w/ mastic space 2 rooms 1 & 2, space 3	None Detected		100% Other	Yellow, Gray Non Fibrous Heterogeneous
71971938PLM_137	mastic/leveling compound				Crushed, Dissolved
FT-9-26 - A	Cream 12x12 FT w/ mastic space 2 rooms 1 & 2, space 3	None Detected		100% Other	Cream Non Fibrous Homogeneous
71971938PLM_26	tile				Dissolved
FT-9-26 - B	Cream 12x12 FT w/ mastic space 2 rooms 1 & 2, space 3	None Detected		100% Other	Yellow, Gray Non Fibrous Heterogeneous
71971938PLM_138	mastic/leveling compound				Dissolved, Crushed
FT-9-27	Cream 12x12 FT w/ mastic space 2 rooms 1 & 2, space 3	Not Analyzed			
71971938PLM_27	TEM				
DC-10-28	Door caulk in vent rm #2 & rm #3	None Detected	15% Wollastonite	85% Other	White Non Fibrous Homogeneous
71971938PLM_28					Crushed
DC-10-29	Door caulk in vent rm #2 & rm #3	None Detected	15% Wollastonite	85% Other	White Non Fibrous Homogeneous
71971938PLM_29					Crushed
DC-10-30	Door caulk in vent rm #2 & rm #3	Not Analyzed			
71971938PLM_30	TEM				
CT-11-31	1x1 Smooth ceiling tile in space 3	None Detected	60% Mineral Wool 10% Fiber Glass	30% Other	Gray Fibrous Homogeneous
71971938PLM_31					Ashed

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Yanelis Delgado (174)

Analyst

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
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Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971938
Analysis ID: 71971938_PLM
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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CT-11-32	1x1 Smooth ceiling tile in space 3	None Detected	60% Mineral Wool 10% Fiber Glass	30% Other	Gray Fibrous Homogeneous
71971938PLM_32					Ashed
CT-11-33	1x1 Smooth ceiling tile in space 3	None Detected	60% Mineral Wool 10% Fiber Glass	30% Other	Gray Fibrous Homogeneous
71971938PLM_33					Ashed
BBI-12-34	Brown kraft paper around yellow fiberglass around HVAC duct space 3	None Detected	60% Cellulose	40% Other	Brown, Black Fibrous Heterogeneous
71971938PLM_34					Ashed
BBI-12-35	Brown kraft paper around yellow fiberglass around HVAC duct space 3	None Detected	60% Cellulose	40% Other	Brown, Black Fibrous Heterogeneous
71971938PLM_35					Ashed
BBI-12-36	Brown kraft paper around yellow fiberglass around HVAC duct space 3	Not Analyzed			
71971938PLM_36	TEM				
CT-13-37	1x1 Swirl CT (space 4, room 1)	None Detected	60% Mineral Wool 10% Fiber Glass	30% Other	Gray Fibrous Homogeneous
71971938PLM_37					Ashed
CT-13-38	1x1 Swirl CT (space 4, room 1)	None Detected	60% Mineral Wool 10% Fiber Glass	30% Other	Gray Fibrous Homogeneous
71971938PLM_38					Ashed
CT-13-39	1x1 Swirl CT (space 4, room 1)	None Detected	60% Mineral Wool 10% Fiber Glass	30% Other	Gray Fibrous Homogeneous
71971938PLM_39					Ashed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CT-14-40	2x4 Wormhole CT (space 4, room 2) & space 9 - rms 3,4,5	None Detected	60% Mineral Wool 10% Fiber Glass	30% Other	Gray Fibrous Homogeneous
71971938PLM_40					Ashed
CT-14-41	2x4 Wormhole CT (space 4, room 2) & space 9 - rms 3,4,5	None Detected	60% Mineral Wool 10% Fiber Glass	30% Other	Gray Fibrous Homogeneous
71971938PLM_41					Ashed
CT-14-42	2x4 Wormhole CT (space 4, room 2) & space 9 - rms 3,4,5	None Detected	60% Mineral Wool 10% Fiber Glass	30% Other	Gray Fibrous Homogeneous
71971938PLM_42					Ashed
M-15-43	Mastic under porcelain faux brick tile (space 4, rooms 1 & 2)	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971938PLM_43					Dissolved
M-15-44	Mastic under porcelain faux brick tile (space 4, rooms 1 & 2)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971938PLM_44					Dissolved
M-15-45	Mastic under porcelain faux brick tile (space 4, rooms 1 & 2)	Not Analyzed			
71971938PLM_45	TEM				
TB-16-46 - A	4" Black toeboard w/ mastic (space 5) & space 9, rm 3&5	None Detected		100% Other	Black Non Fibrous Homogeneous
71971938PLM_46	baseboard				Ashed
TB-16-46 - B	4" Black toeboard w/ mastic (space 5) & space 9, rm 3&5	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971938PLM_139	mastic				Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TB-16-47 - A	4" Black toeboard w/ mastic (space 5) & space 9, rm 3&5	None Detected		100% Other	Black Non Fibrous Homogeneous
71971938PLM_47	baseboard				Ashed
TB-16-47 - B	4" Black toeboard w/ mastic (space 5) & space 9, rm 3&5	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971938PLM_140	mastic				Dissolved
TB-16-48	4" Black toeboard w/ mastic (space 5) & space 9, rm 3&5	Not Analyzed			
71971938PLM_48	TEM				
S-17-49	Textured surfacing on ceiling in space 5	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_49					Crushed
S-17-50	Textured surfacing on ceiling in space 5	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_50					Crushed
S-17-51	Textured surfacing on ceiling in space 5	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_51					Crushed
TB-18-52 - A	4" Black #2 toeboard (space 7, room 1) & space 9, rm 7	None Detected		100% Other	Black Non Fibrous Homogeneous
71971938PLM_52	baseboard				Ashed
TB-18-52 - B	4" Black #2 toeboard (space 7, room 1) & space 9, rm 7	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971938PLM_141	mastic				Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TB-18-53 - A	4" Black #2 toeboard (space 7, room 1) & space 9, rm 7	None Detected		100% Other	Black Non Fibrous Homogeneous
71971938PLM_53	baseboard				Ashed
TB-18-53 - B	4" Black #2 toeboard (space 7, room 1) & space 9, rm 7	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971938PLM_142	mastic				Dissolved
TB-18-54	4" Black #2 toeboard (space 7, room 1) & space 9, rm 7	Not Analyzed			
71971938PLM_54	TEM				
CW-19-55	Canvas wrap on rectangular AHU upstairs adjacent to space 7	None Detected	60% Cellulose	40% Other	White Fibrous Heterogeneous
71971938PLM_55					Ashed
CW-19-56	Canvas wrap on rectangular AHU upstairs adjacent to space 7	None Detected	60% Cellulose	40% Other	White Fibrous Heterogeneous
71971938PLM_56					Ashed
CW-19-57	Canvas wrap on rectangular AHU upstairs adjacent to space 7	None Detected	60% Cellulose	40% Other	White Fibrous Heterogeneous
71971938PLM_57					Ashed
WG-20-58	Window glaze - (space 8 between rooms 1&2)	None Detected		100% Other	Black Non Fibrous Homogeneous
71971938PLM_58					Crushed
WG-20-59	Window glaze - (space 8 between rooms 1&2)	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971938PLM_59					Crushed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
WG-20-60	Window glaze - (space 8 between rooms 1&2)	Not Analyzed			
71971938PLM_60	TEM				
PC-21-61	Popcorn ceiling (all space 2)	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_61					Crushed
PC-21-62	Popcorn ceiling (all space 2)	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_62					Crushed
PC-21-63	Popcorn ceiling (all space 2)	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_63					Crushed
PC-21-64	Popcorn ceiling (all space 2)	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_64					Crushed
PC-21-65	Popcorn ceiling (all space 2)	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_65					Crushed
DW-22-66 - A	Drywall & joint compound all space 2, space 6, space 4-room 2 (2 walls only), space 9-room	None Detected	10% Cellulose	90% Other	White Non Fibrous Homogeneous
71971938PLM_66	drywall				Crushed
DW-22-66 - B	Drywall & joint compound all space 2, space 6, space 4-room 2 (2 walls only), space 9-room	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_143	joint compound				Crushed

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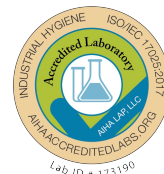
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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
DW-22-67 - A	Drywall & joint compound all space 2, space 6, space 4-room 2 (2 walls only), space 9-room	None Detected	10% Cellulose	90% Other	White Non Fibrous Homogeneous
71971938PLM_67	drywall				Crushed
DW-22-67 - B	Drywall & joint compound all space 2, space 6, space 4-room 2 (2 walls only), space 9-room	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_144	joint compound				Crushed
DW-22-68 - A	Drywall & joint compound all space 2, space 6, space 4-room 2 (2 walls only), space 9-room	None Detected	10% Cellulose	90% Other	White Non Fibrous Homogeneous
71971938PLM_68	drywall				Crushed
DW-22-68 - B	Drywall & joint compound all space 2, space 6, space 4-room 2 (2 walls only), space 9-room	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_145	joint compound				Crushed
DW-22-69 - A	Drywall & joint compound all space 2, space 6, space 4-room 2 (2 walls only), space 9-room	None Detected	10% Cellulose	90% Other	White Non Fibrous Homogeneous
71971938PLM_69	drywall				Crushed
DW-22-69 - B	Drywall & joint compound all space 2, space 6, space 4-room 2 (2 walls only), space 9-room	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_146	joint compound				Crushed
DW-22-70 - A	Drywall & joint compound all space 2, space 6, space 4-room 2 (2 walls only), space 9-room	None Detected	10% Cellulose	90% Other	White Non Fibrous Homogeneous
71971938PLM_70	drywall				Crushed
DW-22-70 - B	Drywall & joint compound all space 2, space 6, space 4-room 2 (2 walls only), space 9-room	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_147	joint compound				Crushed

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Lab Sample ID	Lab Notes				Treatment
DW-22-71 - A	Drywall & joint compound all space 2, space 6, space 4-room 2 (2 walls only), space 9-room	None Detected	10% Cellulose	90% Other	White Non Fibrous Homogeneous
71971938PLM_71	drywall				Crushed
DW-22-71 - B	Drywall & joint compound all space 2, space 6, space 4-room 2 (2 walls only), space 9-room	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_148	joint compound				Crushed
DW-22-72 - A	Drywall & joint compound all space 2, space 6, space 4-room 2 (2 walls only), space 9-room	None Detected	10% Cellulose	90% Other	White Non Fibrous Homogeneous
71971938PLM_72	drywall				Crushed
DW-22-72 - B	Drywall & joint compound all space 2, space 6, space 4-room 2 (2 walls only), space 9-room	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_149	joint compound				Crushed
unlabeled bag - A		None Detected	10% Cellulose	90% Other	White Non Fibrous Homogeneous
71971938PLM_151	drywall - not on coc				Crushed
unlabeled bag - B		None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_152	joint compound - not on coc				Crushed
FT-23-73 - A	12x12 Black FT & mastic in space 9, 1,2,3	None Detected		100% Other	Black Non Fibrous Homogeneous
71971938PLM_73	tile				Dissolved
FT-23-73 - B	12x12 Black FT & mastic in space 9, 1,2,3	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971938PLM_150	mastic				Dissolved

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Lab Sample ID	Lab Notes				Treatment
FT-23-74 - A	12x12 Black FT & mastic in space 9, 1,2,3	None Detected		100% Other	Black Non Fibrous Homogeneous
71971938PLM_74	tile				Dissolved
FT-23-74 - B	12x12 Black FT & mastic in space 9, 1,2,3	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971938PLM_153	mastic				Dissolved
FT-23-75	12x12 Black FT & mastic in space 9, 1,2,3	Not Analyzed			
71971938PLM_75	TEM				
FT-24-76 - A	12x12 Off white FT w/ mastic in space 9, rms 4,5,6,8,9	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971938PLM_76	tile				Dissolved
FT-24-76 - B	12x12 Off white FT w/ mastic in space 9, rms 4,5,6,8,9	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971938PLM_154	mastic				Dissolved
FT-24-77 - A	12x12 Off white FT w/ mastic in space 9, rms 4,5,6,8,9	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971938PLM_77	tile				Dissolved
FT-24-77 - B	12x12 Off white FT w/ mastic in space 9, rms 4,5,6,8,9	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971938PLM_155	mastic				Dissolved
FT-24-78	12x12 Off white FT w/ mastic in space 9, rms 4,5,6,8,9	Not Analyzed			
71971938PLM_78	TEM				

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-25-79 - A	12x12 Beige FT #2 w/ mastic (middle layer space 9-rm 10)	3% Chrysotile		97% Other	Gray, Green Non Fibrous Homogeneous
71971938PLM_79	tile				Dissolved
FT-25-79 - B	12x12 Beige FT #2 w/ mastic (middle layer space 9-rm 10)	None Detected		100% Other	Tan Non Fibrous Homogeneous
71971938PLM_156	mastic				Dissolved
FT-25-80 - A	12x12 Beige FT #2 w/ mastic (middle layer space 9-rm 10)	3% Chrysotile		97% Other	Gray, Green Non Fibrous Homogeneous
71971938PLM_80	tile				Dissolved
FT-25-80 - B	12x12 Beige FT #2 w/ mastic (middle layer space 9-rm 10)	None Detected		100% Other	Tan Non Fibrous Homogeneous
71971938PLM_157	mastic				Dissolved
FT-25-81	12x12 Beige FT #2 w/ mastic (middle layer space 9-rm 10)	Not Analyzed			
71971938PLM_81	TEM				
FT-26-82 - A	9x9 Tan FT w/ mastic (3rd/bottom layer space 9-rm 10) & space 9, rm 2 (only laye	3% Chrysotile		97% Other	Gray, Green Non Fibrous Homogeneous
71971938PLM_82	tile				Dissolved
FT-26-82 - B	9x9 Tan FT w/ mastic (3rd/bottom layer space 9-rm 10) & space 9, rm 2 (only laye	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971938PLM_158	mastic				Dissolved
FT-26-83 - A	9x9 Tan FT w/ mastic (3rd/bottom layer space 9-rm 10) & space 9, rm 2 (only laye	3% Chrysotile		97% Other	Gray, Green Non Fibrous Homogeneous
71971938PLM_83	tile				Dissolved

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Date Reported: 8/16/2021

Project: PPOE00521 - Warehouse 13

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-26-83 - B	9x9 Tan FT w/ mastic (3rd/bottom layer space 9-rm 10) & space 9, rm 2 (only laye	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971938PLM_159	mastic				Dissolved
FT-26-84	9x9 Tan FT w/ mastic (3rd/bottom layer space 9-rm 10) & space 9, rm 2 (only laye	Not Analyzed			
71971938PLM_84	TEM				
FT-27-85 - A	9x9 Brown FT w/ mastic (2nd/bottom layer space 9, rm 1&9)	8% Chrysotile		92% Other	Gray Non Fibrous Homogeneous
71971938PLM_85	tile				Dissolved
FT-27-85 - B	9x9 Brown FT w/ mastic (2nd/bottom layer space 9, rm 1&9)	5% Chrysotile		95% Other	Black Non Fibrous Homogeneous
71971938PLM_160	mastic				Dissolved
FT-27-86 - A	9x9 Brown FT w/ mastic (2nd/bottom layer space 9, rm 1&9)	8% Chrysotile		92% Other	Gray Non Fibrous Homogeneous
71971938PLM_86	tile				Dissolved
FT-27-86 - B	9x9 Brown FT w/ mastic (2nd/bottom layer space 9, rm 1&9)	5% Chrysotile		95% Other	Black Non Fibrous Homogeneous
71971938PLM_161	mastic				Dissolved
FT-27-87	9x9 Brown FT w/ mastic (2nd/bottom layer space 9, rm 1&9)	Not Analyzed			
71971938PLM_87	TEM				
VD-28-88	Vibration dampener on HVAC unit space 9 - rm 3	None Detected	40% Synthetic Fibers	60% Other	Black Non Fibrous Homogeneous
71971938PLM_88					Ashed

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Yanelis Delgado (174)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971938
Analysis ID: 71971938_PLM
Date Received: 8/6/2021
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Project: PPOE00521 - Warehouse 13

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
VD-28-89	Vibration dampener on HVAC unit space 9 - rm 3	None Detected	40% Synthetic Fibers	60% Other	Black Non Fibrous Homogeneous
71971938PLM_89					Ashed
VD-28-90	Vibration dampener on HVAC unit space 9 - rm 3	None Detected	40% Synthetic Fibers	60% Other	Black Non Fibrous Homogeneous
71971938PLM_90					Ashed
DM-29-91	White ductwork mastic on HVAC ducts in space 9 above ceiling	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_91					Ashed
DM-29-92	White ductwork mastic on HVAC ducts in space 9 above ceiling	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_92					Ashed
DM-29-93	White ductwork mastic on HVAC ducts in space 9 above ceiling	Not Analyzed			
71971938PLM_93	TEM				
BBI-30-94	Tan BBI - (space 9 - rms 1&9) behind wood - panels	None Detected	60% Cellulose	40% Other	Black Fibrous Heterogeneous
71971938PLM_94					Ashed
BBI-30-95	Tan BBI - (space 9 - rms 1&9) behind wood - panels	None Detected	60% Cellulose	40% Other	Black Fibrous Heterogeneous
71971938PLM_95					Ashed
BBI-30-96	Tan BBI - (space 9 - rms 1&9) behind wood - panels	Not Analyzed			
71971938PLM_96	TEM				

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Analysis ID: 71971938_PLM
Date Received: 8/6/2021
Date Reported: 8/16/2021

Project: PPOE00521 - Warehouse 13

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FB-31-97	Fire brick, red (machine pits)	None Detected		100% Other	Red Non Fibrous Homogeneous
71971938PLM_97					Crushed
FB-31-98	Fire brick, red (machine pits)	None Detected		100% Other	Red Non Fibrous Homogeneous
71971938PLM_98					Crushed
FB-31-99	Fire brick, red (machine pits)	None Detected		100% Other	Red Non Fibrous Homogeneous
71971938PLM_99					Crushed
FB-32-100	Fire brick, tan (walls up)	None Detected		100% Other	Tan Non Fibrous Homogeneous
71971938PLM_100					Crushed
FB-32-101	Fire brick, tan (walls up)	None Detected		100% Other	Tan Non Fibrous Homogeneous
71971938PLM_101					Crushed
FB-32-102	Fire brick, tan (walls up)	None Detected		100% Other	Tan Non Fibrous Homogeneous
71971938PLM_102					Crushed
TSI-33-103	Thermal system insulation, large dia pipe, straight run	None Detected		100% Other	Pink Non Fibrous Homogeneous
71971938PLM_103					Crushed
TSI-33-104	Thermal system insulation, large dia pipe, straight run	15% Chrysotile 15% Amosite		70% Other	Gray Non Fibrous Heterogeneous
71971938PLM_104					Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TSI-33-105	Thermal system insulation, large dia pipe, straight run	15% Chrysotile 15% Amosite		70% Other	Gray Non Fibrous Heterogeneous
71971938PLM_105					Dissolved
TSI-34-106 - A	Thermal system insulaton, med dia pipe, straight run	15% Chrysotile 15% Amosite		70% Other	Gray Non Fibrous Heterogeneous
71971938PLM_106	insulation				Dissolved
TSI-34-106 - B	Thermal system insulaton, med dia pipe, straight run	None Detected	60% Cellulose	40% Other	Cream Fibrous Homogeneous
71971938PLM_162	wrap				Ashed
TSI-34-107 - A	Thermal system insulaton, med dia pipe, straight run	15% Chrysotile 15% Amosite		70% Other	Gray Non Fibrous Heterogeneous
71971938PLM_107	insulation				Dissolved
TSI-34-107 - B	Thermal system insulaton, med dia pipe, straight run	None Detected	60% Cellulose	40% Other	Cream Fibrous Homogeneous
71971938PLM_163	wrap				Ashed
TSI-34-108	Thermal system insulaton, med dia pipe, straight run	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_108					Crushed
TSI-35-109 - A	Thermal system insulation, med dia pipe, hard joints	15% Chrysotile 15% Amosite		70% Other	Gray Non Fibrous Heterogeneous
71971938PLM_109	insulation				Dissolved
TSI-35-109 - B	Thermal system insulation, med dia pipe, hard joints	None Detected	60% Cellulose	40% Other	Cream Fibrous Homogeneous
71971938PLM_164	wrap				Ashed

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Lab Order ID: 71971938
Analysis ID: 71971938_PLM
Date Received: 8/6/2021
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Project: PPOE00521 - Warehouse 13

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TSI-35-110 - A	Thermal system insulation, med dia pipe, hard joints	15% Chrysotile 15% Amosite		70% Other	Gray Non Fibrous Heterogeneous
71971938PLM_110	insulation				Dissolved
TSI-35-110 - B	Thermal system insulation, med dia pipe, hard joints	None Detected	60% Cellulose	40% Other	Cream Fibrous Homogeneous
71971938PLM_165	wrap				Ashed
TSI-35-111	Thermal system insulation, med dia pipe, hard joints	15% Chrysotile 15% Amosite		70% Other	Gray Non Fibrous Heterogeneous
71971938PLM_111	unable to separate layers				Dissolved
TSI-36-112 - A	Thermal system insulation, large dia pipe, hard joints	15% Chrysotile 15% Amosite		70% Other	Gray Non Fibrous Heterogeneous
71971938PLM_112	insulation				Dissolved
TSI-36-112 - B	Thermal system insulation, large dia pipe, hard joints	None Detected	60% Cellulose	40% Other	Cream Fibrous Homogeneous
71971938PLM_166	wrap				Ashed
TSI-36-113 - A	Thermal system insulation, large dia pipe, hard joints	15% Chrysotile 15% Amosite		70% Other	Gray Non Fibrous Heterogeneous
71971938PLM_113	insulation				Dissolved
TSI-36-113 - B	Thermal system insulation, large dia pipe, hard joints	None Detected	60% Cellulose	40% Other	Cream Fibrous Homogeneous
71971938PLM_167	wrap				Ashed
TSI-36-114 - A	Thermal system insulation, large dia pipe, hard joints	15% Chrysotile 15% Amosite		70% Other	Gray Non Fibrous Heterogeneous
71971938PLM_114	insulation				Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TSI-36-114 - B	Thermal system insulation, large dia pipe, hard joints	None Detected	60% Cellulose	40% Other	Cream Fibrous Homogeneous
71971938PLM_168	wrap				Ashed
TSI-37-115 - A	Thermal system insulation, small dia ipes, straight runs & hard joints	15% Chrysotile 15% Amosite		70% Other	Gray Non Fibrous Heterogeneous
71971938PLM_115	insulation				Dissolved
TSI-37-115 - B	Thermal system insulation, small dia ipes, straight runs & hard joints	None Detected	60% Cellulose	40% Other	Cream Fibrous Homogeneous
71971938PLM_169	wrap				Ashed
TSI-37-116 - A	Thermal system insulation, small dia ipes, straight runs & hard joints	15% Chrysotile 15% Amosite		70% Other	Gray Non Fibrous Heterogeneous
71971938PLM_116	insulation				Dissolved
TSI-37-116 - B	Thermal system insulation, small dia ipes, straight runs & hard joints	None Detected	60% Cellulose	40% Other	Cream Fibrous Homogeneous
71971938PLM_170	wrap				Ashed
TSI-37-117 - A	Thermal system insulation, small dia ipes, straight runs & hard joints	15% Chrysotile 15% Amosite		70% Other	Gray Non Fibrous Heterogeneous
71971938PLM_117	insulation				Dissolved
TSI-37-117 - B	Thermal system insulation, small dia ipes, straight runs & hard joints	None Detected	60% Cellulose	40% Other	Cream Fibrous Homogeneous
71971938PLM_171	wrap				Ashed
TSI-38-118 - A	Thermal system insulation, hard joint on all other process systems	None Detected	10% Fiber Glass	90% Other	Gray Non Fibrous Heterogeneous
71971938PLM_118	insulation				Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TSI-38-118 - B	Thermal system insulation, hard joint on all other process systems	None Detected	60% Cellulose	40% Other	Cream Fibrous Homogeneous
71971938PLM_172	wrap				Ashed
TSI-38-119 - A	Thermal system insulation, hard joint on all other process systems	None Detected	10% Fiber Glass	90% Other	Gray Non Fibrous Heterogeneous
71971938PLM_119	insulation				Dissolved
TSI-38-119 - B	Thermal system insulation, hard joint on all other process systems	None Detected	60% Cellulose	40% Other	Cream Fibrous Homogeneous
71971938PLM_173	wrap				Ashed
TSI-38-120 - A	Thermal system insulation, hard joint on all other process systems	None Detected	10% Fiber Glass	90% Other	Gray Non Fibrous Heterogeneous
71971938PLM_120	insulation				Dissolved
TSI-38-120 - B	Thermal system insulation, hard joint on all other process systems	None Detected	60% Cellulose	40% Other	Cream Fibrous Homogeneous
71971938PLM_174	wrap				Ashed
TSI-39-121	Thermal system insulation, straight run on all other process systems	None Detected	80% Cellulose	20% Other	Brown Fibrous Homogeneous
71971938PLM_121					Ashed
TSI-39-122	Thermal system insulation, straight run on all other process systems	None Detected	80% Cellulose	20% Other	Brown Fibrous Homogeneous
71971938PLM_122					Ashed
TSI-39-123	Thermal system insulation, straight run on all other process systems	None Detected	80% Cellulose	20% Other	Brown Fibrous Homogeneous
71971938PLM_123					Ashed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
C-40-124	Exterior caulk along door frame(s), vents & overhang on East side (white)	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_124					Ashed
C-40-125	Exterior caulk along door frame(s), vents & overhang on East side (white)	None Detected		100% Other	White Non Fibrous Homogeneous
71971938PLM_125					Ashed
C-40-126	Exterior caulk along door frame(s), vents & overhang on East side (white)	Not Analyzed			
71971938PLM_126	TEM				
C-41-127	Exterior caulk (silver) on West side door frame entrance	None Detected		100% Other	Silver Non Fibrous Homogeneous
71971938PLM_127					Ashed
C-41-128	Exterior caulk (silver) on West side door frame entrance	None Detected		100% Other	Silver Non Fibrous Homogeneous
71971938PLM_128					Ashed
C-41-129	Exterior caulk (silver) on West side door frame entrance	Not Analyzed			
71971938PLM_129	TEM				

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Lab Use Only
Lab Order ID: 11971938
Client Code: _____

Company Contact Information

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Address: 2040 Savage Road
Charleston, SC 29407
Contact: Ron Sharpe/Sarah Browning
Phone: 843-769-7376
Fax: 843-769-7397
Email: ☒ ronald.sharpe@gel.com
sarah.browning@gel.com

Billing/Invoice Information

Company:
Contact: Same
Address: AS
Above

Turn Around Times

90 Min. ☐ 48 Hours ☐
3 Hours ☐ 72 Hours ☐
6 Hours ☐ 96 Hours ☐
12 Hours ☐ 120 Hours ☒
24 Hours ☐ 144+ Hours ☐

PO Number:

Project Name/Number: PPOE00521 - Warehouse 13

(8/3 + 8/4/21)

Asbestos Test Types

PLM EPA 600/R-93/116 (PLM) ☒
Positive stop ☐
PLM Point Count 400 (PT4) ☐
PLM Point Count 1000 (PTM) ☐
PCM NIOSH 7400-A Rules (PCM) ☐
B Rules (PCB) ☐ TWA (PTA) ☐
TEM AHERA (AHE) ☐
TEM Level II (LII) ☐
TEM NIOSH 7402 (TNI) ☐
TEM Bulk Qualitative (TBL) ☐
TEM Bulk Chatfield (TBS) ☒
TEM Bulk Quantitative (TBQ) ☐
TEM Wipe ASTM D6480-05 ☐
TEM Microvac ASTM D5755-02 ☐
TEM Water EPA 100.2 (TW1) ☐
Other: ☐

✓ = TEM

* Run PLM+TEM simultaneously *

Sample ID #	Description/Location	Volume/Area	Comments
CB-1-1	Cement Board in Space 1 walls	~1150 SF	Analyze cementboard
CB-1-2	↓ + ceiling	↓	only
CB-1-3	↓	↓	↓
FH-2-4	Fire Hose	All fire hoses	Analyze hose only
FH-2-5	↓	found	↓
FH-2-6	↓	↓	↓
FT-3-7	12x12 Beige Floor Tile #1	150 SF	Analyze tile
FT-3-8	on East exterior wall	↓	+ mastic
FT-3-9	↓	↓	↓
TSI-4-10	Thermal System Insulation on Vaneaxia	180 SF	Analyze all layers
TSI-4-11	fan ↓ (cont'd on Pg 2)	↓	↓

Total # of Samples 129

Relinquished by	Date/Time	Received by	Date/Time
	8/5/21 @ 0800		8/6/21 10:30 A

Page 1 of 5
A-F-017 EXP: 2/4/2021

Accepted ☒

Rejected ☐



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 Client Code: _____

✓ = TEM * Run PLM+TEM simultaneously*

Sample ID #	Specific Location	Volume/Area	Comments
TSI-4-12	Thermal System Insulation (Cont From prev page)	~180 SF	Analyze all layers
BBI-5-13	Yellow BBI behind walls in	~320 SF	Analyze black
BBI-5-14	Space 2, RMS 3, 4, 5	↓	batt only
✓ BBI-5-15	↓	↓	↓
BBI-6-16	Pink BBI behind walls and/or	~5,850 SF	Analyze black
BBI-6-17	above ceilings in All Space 2, Space 4-	↓	batt only
✓ BBI-6-18	Rm 1, Space 6, Space 9-RMS 3, 4, 5	↓	↓
TB-7-19	4" Brown toe board w/mastic	~500 LF	Analyze toe board
TB-7-20	All of Space 2 + Space 3	↓	+ mastic only
✓ TB-7-21	↓	↓	↓
CM-8-22	Cement thin set under Porcelain	~900 SF	Analyze cement
CM-8-23	faux brick tile in All of Space 2	↓	material only
CM-8-24	minus RMS 1+2	↓	↓
FT-9-25	Cream 12x12 FW/ mastic	~1,245 SF	Analyze tile +
✓ FT-9-26	Space 2 Rooms 1+2, Space 3	↓	mastic
✓ FT-9-27	↓	↓	↓
DC-10-28	Door caulk in vent rm #2	16 total doors	Analyze caulk only
DC-10-29	+ Rm #3	↓	↓
✓ DC-10-30	↓	↓	↓
CT-11-31	1x1 Smooth ceiling tile in	~1,100 SF	Analyze ceiling
CT-11-32	Space 3	↓	tile only
CT-11-33	↓	↓	↓
BBI-12-34	Brown kraft paper around yellow	~300 SF	Analyze kraft
BBI-12-35	fiberglass around HVAC duct	↓	paper only
✓ BBI-12-36	Space 3	↓	↓
CT-13-37	1x1 Swirl CT (Space 4, room 1)	~740 SF	Analyze ceiling
CT-13-38	↓	↓	tile only
CT-13-39	↓	↓	↓
CT-14-40	2x4 Wormhole CT (Space 4, room 2)	~2,200 SF	Analyze ceiling
CT-14-41	+ Space 9 → RMS 3, 4, 5	↓	tile only
CT-14-42	↓	↓	↓
M-15-43	Mastic under porcelain faux brick	~980 SF	Analyze mastic
M-15-44	tile (Space 4, rooms 1+2)	↓	only
✓ M-15-45	↓	↓	↓
TB-16-46	4" Black toe board w/mastic	~180 LF	Analyze toe board
TB-16-47	(Space 5) + Space 9, RM 3+5	↓	+ mastic
✓ TB-16-48	↓	↓	↓



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Lab Use Only: 11971928
 Lab Order ID:
 Client Code:

* Run PLM+TEM simultaneously *

Sample ID #	Specific Location	Volume/Area	Comments
S-17-44	Textured surfacing on ceiling	512 SF	Analyze surfacing
S-17-50	in space 5	↓	only
S-17-51	↓	↓	↓
TB-18-52	4" Black #2 toe board	80 LF	Analyze toe board
TB-18-53	(Space 7, Room 1) +	↓ 110	+ mastic
TB-18-54	Space 9, RM 7 ↓	↓	↓
CW-19-55	Canvas wrap on rectangular	200 SF	Analyze canvas
CW-19-56	AHU upstairs adjacent to Space 7	↓	wrap only
CW-19-57	↓	↓	↓
WG-20-58	Window glaze - (space 8 between)	2 Windows	Analyze window
WG-20-59	rooms 1 & 2	↓	glaze only
WG-20-60	↓	↓	↓
PC-21-61	Popcorn Ceiling (all space 2)	~1166 SF	Analyze popcorn
PC-21-62	↓	↓	ceiling only
PC-21-63	↓	↓	↓
PC-21-64	↓	↓	↓
PC-21-65	↓	↓	↓
DW-22-66	Drywall + joint compound	~5100 SF	Analyze drywall
DW-22-67	All space 2, Space 6, Space 4-	↓	+ joint compound
DW-22-68	room 2 (2 walls only), Space 9-	↓	↓
DW-22-69	room 3 (1 wall), Space 9-room 5	↓	↓
DW-22-70	(1 wall)	↓	↓
DW-22-71	↓	↓	↓
DW-22-72	↓	↓	↓
FT-23-73	12x12 Black FT + mastic.	~ [redacted]	Analyze floor tile
FT-23-74	in Space 9, [redacted] 1, 2, 3	1,300 SF	+ mastic
FT-23-75	↓	↓	↓
FT-24-76	12x12 Off White FT w/mastic	~1,750 SF	Analyze floor tile
FT-24-77	in Space 9, RMs 4, 5, 6, 8, 9	↓	+ mastic
FT-24-78	↓	↓	↓
FT-25-79	12x12 Beige FT w/mastic	~108 SF	Analyze floor tile
FT-25-80	(middle layer Space 9-rm 10)	↓	+ mastic
FT-25-81	↓	↓	↓
FT-26-82	9x9 Tan FT w/mastic	~950 SF	Analyze floor tile
FT-26-83	(3rd/bottom layer Space 9-rm 10)	↓	+ mastic
FT-26-84	+ Space 9, RM 2 (only layer)	↓	↓
FT-27-85	9x9 Brown FT w/mastic	~800 SF	Analyze floor tile
FT-27-86	(2nd/bottom layer Space 9, RM 1+9)	↓	+ mastic
FT-27-87	↓	↓	↓



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Lab Use Only 11971938
 Lab Order ID:
 Client Code:

* Run PLM+ TEM simultaneously *

Sample ID #	Specific Location	Volume/Area	Comments
VD-28-88	Vibration dampener on HVAC unit	1 Unit observed	Analyze vibration
VD-28-89	Space 9 - rm 3	↓	dampener only
VD-28-90	↓	↓	↓
DM-29-91	White ductwork mastic on	~100 SF	Analyze mastic
DM-29-92	HVAC ducts in Space 9 above	↓	only.
✓ DM-29-93	↓ ceiling	↓	↓
BBI-30-94	Tan BBI - (Space 9 - rms 1+9)	~ 675 SF	Analyze BBI only
✓ BBI-30-95	behind wood-panels	↓	↓
ABI-30-96	↓	↓	↓
FB-31-97	Fire Brick, Red (Machine Pits)	8100 SF	Analyze Brick only
FB-31-98	↓	↓	↓
FB-31-99	↓	↓	↓
FB-32-100	Fire Brick, Tan (Walls up to	14,500 SF	Analyze Brick only
FB-32-101	downstairs)	↓	↓
FB-32-102	↓	↓	↓
TSI-33-103	Thermal system insulation, Large	Stream Pipes	Analyze all layers
TSI-33-104	dia pipe, straight run	↓	present
TSI-33-105	↓	↓	↓
TSI-34-106	Thermal system insulation, med.	↓	↓
TSI-34-107	dia pipe, straight run	↓	↓
TSI-34-108	↓	↓	↓
TSI-35-109	Thermal system insulation, med	↓	↓
TSI-35-110	dia. pipe, hard joints	↓	↓
TSI-35-111	↓	↓	↓
TSI-36-112	Thermal system insulation, large	↓	↓
TSI-36-113	dia pipe, hard joints	↓	↓
TSI-36-114	↓	↓	↓
TSI-37-115	Thermal system insulation, small	↓	↓
TSI-37-116	dia pipes, straight runs + hard	↓	↓
TSI-37-117	joints.	↓	↓
TSI-38-118	Thermal System Insulation, Hard	All other process	↓
TSI-38-119	joint on all other process	system pipes	↓
TSI-38-120	systems	↓	↓
TSI-39-121	Thermal System Insulation, Straight	↓	↓
TSI-39-122	run on all other process	↓	↓
TSI-39-123	systems.	↓	↓
C-40-124	Exterior caulk along door frame(s),	~ 90 LF	Analyze caulk only
C-40-125	vents, + overhang on East side	↓	↓
✓ C-40-126	(white)	↓	↓



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971997

Analysis ID: 71971997_TB

Date Received: 8/9/2021

Date Reported: 8/10/2021

Project: PP0E00521 - Warehouse 14

Sample ID	Description	Organic	Acid Sol.	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes	(Wt. %)	(Wt. %)	(Wt. %)		(Wt. %)
FT-1-3-b	12x12 Camo FT (SPG-Rms 2-8, SP7-Rm17, South end SP3, SP2-Rms 1&2), SP8-NE Corner)	47%	-	2.6 %	Chrysotile	2.4% - 2.9%
71971997TBS_22	mastic					
FT-2-6-a	12x12 Brown speckled FT (SP3-AII) Bottom layer	86%	-	0.29 %	Chrysotile	0.26% - 0.32%
71971997TBS_37	mastic 1					
FT-3-9-b	12x12 Beige FT (SP3-North end) Top Layer	47%	-	2.6 %	Chrysotile	2.4% - 2.9%
71971997TBS_24	mastic					
FT-4-12-b	12x12 Off-White streaked FT(SPG-Rms, 1,9(3/4), 11-13, Sp7-Rms 6&9), SP8-NE Corner) Top layer	61%	-	3.9 %	Chrysotile	3.5% - 4.3%
71971997TBS_25	mastic					
FT-5-15-b	12x12 Camo #2 FT (SPG-Rm 15) (SPI & ads) top layer	46%	-	2.7 %	Chrysotile	2.4% - 3.0%
71971997TBS_26	mastic					
FT-6-18-a	12x12 Tan speckled FT (SP7-Rm 4) Top layer	22%	53%	7.4 %	Chrysotile	6.7% - 8.2%
71971997TBS_6	tile					

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Russell Shelton (24)

Analyst

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407

Approved Signatory

(336) 292-3888



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971997

Analysis ID: 71971997_TB

Date Received: 8/9/2021

Date Reported: 8/10/2021

Project: PP0E00521 - Warehouse 14

Sample ID	Description	Organic	Acid Sol.	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes	(Wt. %)	(Wt. %)	(Wt. %)		(Wt. %)
FT-6-18-b	12x12 Tan speckled FT (SP7-Rm 4) Top layer	57%	-	0.43 %	Chrysotile	0.38% - 0.47%
71971997TBS_27	mastic					
FT-7-21-b	12x12 White streaked #2 FT (SP7-Rms 5&15, SPG-Rm9 (1/4))	61%	-	3.9 %	Chrysotile	3.5% - 4.3%
71971997TBS_28	mastic					
FT-9-27-a	9x9 Cream FT (SPG-Rms 6&16, SP7-Rm 3) (SP7-Rm2) Top & Bottom layers	26%	37%	15 %	Chrysotile	13% - 16%
71971997TBS_9	tile					
FT-9-27-b	9x9 Cream FT (SPG-Rms 6&16, SP7-Rm 3) (SP7-Rm2) Top & Bottom layers	75%	-	2.5 %	Chrysotile	2.3% - 2.8%
71971997TBS_30	mastic					
FT-11-33-b	9x9 Brown marbled FT (SPG-Rms 14 & 15) Top & bottom laterers	75%	-	1.3 %	Chrysotile	1.1% - 1.4%
71971997TBS_32	mastic					
FT-12-36-a	9x9 Olive Green FT (SP7-Rm 3 hallway only, Rm 4,5 (in hidden chase only)	49%	33%	0.36 %	Chrysotile	0.32% - 0.39%
71971997TBS_12	tile					

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Lab Order ID: 71971997

Analysis ID: 71971997_TB

Date Received: 8/9/2021

Date Reported: 8/10/2021

Project: PP0E00521 - Warehouse 14

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL (Wt. %)
Lab Sample ID	Lab Notes			(Wt. %)		
FT-12-36-b	9x9 Olive Green FT (SP7-Rm 3 hallway only, Rm 4,5 (in hidden chase only)	54%	-	0.46 %	Chrysotile	0.42% - 0.51%
71971997TBS_33	mastic					
FT-13-39-a	9x9 Brown Coffee FT (SP7-Rm16)	48%	30.%	0.22 %	Chrysotile	0.20% - 0.24%
71971997TBS_13	tile					
BBI-14-42	Tan BBI (Sp3-Above ceiling & in east wall, Sp-6 Rms 6&16 ceiling, Sp7-Rm4 all but south wall, Rm5 walls)	89%	-	0.11 %	Chrysotile	0.099% - 0.12%
71971997TBS_14						
BBI-15-45	Pink BBI (Sp6-Rm 12 west wall, Rm 13 West wall, Rm 14 West wall, SP7-Rm5 ceiling)	90.%	-	0.10 %	Chrysotile	0.091% - 0.11%
71971997TBS_15						
TB-19-57-a	4" Brown toe board (sp4)	43%	-	None Detected		
71971997TBS_16	toeboard					
TB-19-57-b	4" Brown toe board (sp4)	35%	-	None Detected		
71971997TBS_35	mastic					

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Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
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Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971997

Analysis ID: 71971997_TB

Date Received: 8/9/2021

Date Reported: 8/10/2021

Project: PP0E00521 - Warehouse 14

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
Lab Sample ID	Lab Notes	(Wt. %)	(Wt. %)	(Wt. %)	(Wt. %)
TB-20-60-a	4" Black toe board (Sp 5)	32%	-	None Detected	
71971997TBS_17	toeboard				
TB-20-60-b	4" Black toe board (Sp 5)	45%	-	None Detected	
71971997TBS_36	mastic				
WPM-21-63	Mastic on wood panel (Sp6-Rms 6&16)	59%	-	None Detected	
71971997TBS_18					
M-23-69	Mastic underneath stair mats (Sp7-2 Stairwells)	57%	-	None Detected	
71971997TBS_19					
BBI-25-75	Brown kraft paper around Yellow fiberglass around HVAC duct (sp7-Rm1)	94%	-	None Detected	
71971997TBS_20					
G-39-119	Gaskets	27%	-	None Detected	
71971997TBS_21					

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Analyst

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Lab Use Only
 Lab Order ID: 71971997
 Client Code: 71971988

Company Contact Information

Company: GEL Engineering, LLC Contact: Ron Sharpe/Sarah Browning
 Address: 2040 Savage Road Phone: 843/769-7376
 Charleston, SC 29407 Fax: 843/769-7397
 Email: ronald.sharpe@gel.com
 sarah.browning@gel.com

Billing/Invoice Information

Company: 90 Min. ☐ 48 Hours ☐
 Contact: Same 3 Hours ☐ 72 Hours ☐
 Address: AS 6 Hours ☐ 96 Hours ☐
 Above 12 Hours ☐ 120 Hours ☐
 24 Hours ☒ 144* Hours ☐

Turn Around Times

Asbestos Test Types

PLM EPA 600/R-93/116 (PLM) ☒
 Positive stop ☐
 PLM Point Count 400 (PT4) ☐
 PLM Point Count 1000 (PTM) ☐
 PCM NIOSH 7400-A Rules (PCM) ☐
 B Rules (PCB) ☐ TWA (PTA) ☐
 TEM AHERA (AHE) ☐
 TEM Level II (LII) ☐
 TEM NIOSH 7402 (TNI) ☐
 TEM Bulk Qualitative (TBL) ☐
 TEM Bulk Chatfield (TBS) ☒
 TEM Bulk Quantitative (TBQ) ☐
 TEM Wipe ASTM D6480-05 ☐
 TEM Microvac ASTM D5755-02 ☐
 TEM Water EPA 100.2 (TWI) ☐
 Other: ☐

PO Number:

Project Name/Number: PPOE00521 ~ Warehouse 14

8/5/21

✓ = TEM * Run PLM+TEM simultaneously *

Sample ID #	Description/Location	Volume/Area	Comments
FT-1-1	12x12 Camo FT (SP6-Rms 2-8,	3821 SF	Analyze tile & mastic
✓ FT-1-2	SP7-Rm 17, South end SP3, SP2-Rms 1 & 2)		(if present)
✓ FT-1-3	SP8-NE Corner)		
FT-2-4	12x12 Brown Speckled FT (SP3-All,	1423 SF	
FT-2-5	SP7-Rm 13) Bottom Layer	1,430	
✓ FT-2-6			
FT-3-7	12x12 Beige FT (SP3-North End)	1,088 SF	
✓ FT-3-8	Top Layer		
✓ FT-3-9			
FT-4-10	12x12 off-White Streaked (SP6-Rms 1, 9 & 11-13, Sp7-Rms 6 & 9), (SP8-NE Corner)	2,008 SF	
✓ FT-4-11			
✓ FT-4-12	Top Layer		
			Total # of Samples 122

Relinquished by	Date/Time	Received by	Date/Time
see index	8/6/21 @ 0915	Chen	8/9
			10:30 AM

Accepted ☒

Rejected ☐

Page 1 of 4
 A-F-017 EXP: 2/4/2021

* Run PLM + TEM simultaneously *



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Lab Use Only
 Lab Order ID: 71971988
 Client Code: _____

Sample ID #	Specific Location	Volume/Area	Comments
FT-5-13	12x12 Camo #2 FT (SP6-Rm 15)	382 SF	Analyze tile + mastic
✓ FT-5-14	(SP1 + adj) Top Layer	↓	(if present)
✓ FT-5-15	↓	↓	
FT-6-16	12x12 Tan Speckled FT (SP7-Rm 4)	240 SF	
✓ FT-6-17	Top Layer	↓	
✓ FT-6-18	↓	↓	
FT-7-19	12x12 White Streaked #2 FT	551 SF	
FT-7-20	(SP7-Rms 5+15, SP6-Rm 9 (1/4))	↓	
✓ FT-7-21	↓	↓	
FT-8-22	12x12 Brown Speckled FT	495 SF	
✓ FT-8-23	(SP7-Rm 13) ↓	↓	
✓ FT-8-24	↓	↓	
FT-9-25	9x9 Cream FT (SP6-Rms 6+16,	1675 SF	
FT-9-26	SP7-Rm 3+hall), (SP7-Rm 2)	↓	
✓ FT-9-27	Top + bottom Layers ↓	↓	
FT-10-28	9x9 Brown Streaked FT (SP6-Rms 1,2,	4250 SF	
FT-10-29	3,4+hall, 5, 7, 8, 10, 11, 12, 13),	↓	
✓ FT-10-30	(SP7-Rms 6-12) Top + bottom Layers	↓	
FT-11-31	9x9 Brown Marbled FT (SP6-Rms 14+15)	272 SF	
✓ FT-11-32	Top + Bottom Layers	↓	
✓ FT-11-33	↓	↓	
FT-12-34	9x9 Olive Green FT (SP7-Rm 3 hallway	504 SF	
✓ FT-12-35	only, Rm 4, 5 (on hidden chase only)	↓	
✓ FT-12-36	↓	↓	
FT-13-37	9x9 Brown Coffee FT (SP7-Rm 16),	225 SF	
✓ FT-13-38	↓	↓	
✓ FT-13-39	↓	↓	
BBI-14-40	Tan BBI (Sp3-Above ceiling + in east	4450 SF	Analyze black bath
BBI-14-41	wall, SP-6 Rms 6+16 ceiling, SP7-Rm 4	↓	only
✓ BBI-14-42	all but south wall, Rm 5 walls)	↓	
BBI-15-43	Pink BBI (Sp6-Rm 12 west wall, Rm	520 SF	
BBI-15-44	13 west wall, Rm 14 west wall, SP7-	↓	
✓ BBI-15-45	Rm 5 ceiling)	↓	
CT-16-46	1'x1' Wormhole CT Sp 3	30 SF	Analyze ceiling
CT-16-47	↓	↓	tile only
CT-16-48	↓	↓	
CT-17-49	1'x1' Smooth CT Sp 5	180 SF	
CT-17-50	↓	↓	
CT-17-51	↓	↓	

* Run PLM+TEM simultaneously *



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Lab Use Only
 Lab Order ID: 71971988
 Client Code:

Sample ID #	Specific Location	Volume/Area	Comments
CT-18-52	1'x1' Swirl CT (Sp6-Rms 1+6)	984 SF	Analyze ceiling
CT-18-53	↓	↓	tile only
CT-18-54	↓	↓	↓
TB-19-55	4" Brown toe board (Sp 4)	^{HG} 56 LF	Analyze toe board
TB-19-56	(Sp 9)	~110	+ mastic
✓ TB-19-57	↓	↓	↓
TB-20-58	4" Black toeboard (Sp 5)	56 LF	↓
✓ TB-20-59	↓	↓	↓
✓ TB-20-60	↓	↓	↓
WPM-21-61	Mastic on wood panel (Sp6-	1400 SF	Analyze mastic only
✓ WPM-21-62	Rms 6 + 16)	↓	↓
✓ WPM-21-63	↓	↓	↓
FF-22-64	Red floor felt under wood floor	100 SF	Analyze felt only
FF-22-65	(SP7 - In hallway adjacent to rms	↓	↓
FF-22-66	13+14)	↓	↓
M-23-67	Mastic underneath stair mats	105 SF	Analyze mastic only
M-23-68	(SP7 - 2 Stairwells)	↓	↓
✓ M-23-69	↓	↓	↓
VD-24-70	Vibration dampener (SP7-Rm 1)	1 Unit observed	Analyze dampener only
VD-24-71	↓	↓	↓
VD-24-72	↓	↓	↓
BBI-25-73	Brown Kraft paper around yellow	1120 SF	Analyze kraft paper
BBI-25-74	fiberglass around HVAC duct	↓	only
✓ BBI-25-75	(Sp7-Rm 1)+	↓	↓
S-26-76	Surfacing plaster 1 (Sp 10)	660 SF	Analyze skimcoat
S-26-77	↓	↓	+ base coat.
S-26-78	↓	↓	↓
S-27-79	Surfacing plaster 2 (Sp 9)	155 SF	↓
S-27-80	↓	↓	↓
S-27-81	↓	↓	↓
FH-28-82	Fire Hose (Sp 8)	All Fire hoses	Analyze fire hose
FH-28-83	↓	found	only
FH-28-84	↓	↓	↓
TSI-29-85	Thermal System Insulation, med	Process	Analyze all TSI
TSI-29-86	diameter, straight run (Sp 11)	System Lines	materials
TSI-29-87	(Sp 8)	↓	↓
TSI-30-88	Thermal System Insulation, large	↓	↓
TSI-30-89	diameter, straight run (Sp 11)	↓	↓
TSI-30-90	↓	↓	↓

* Run PLM+TEM simultaneously *



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Lab Use Only 71971988
Lab Order ID:
Client Code:

Sample ID #	Specific Location	Volume/Area	Comments
DW-31-41	Drywall joint compound	< 5000 SF	Analyze drywall
DW-31-42			and joint compound
DW-31-43			only.
DW-31-44			
DW-31-45			
TSI-32-96	Thermal System Insulation, small	Process	Analyze all TSI
TSI-32-97	dia pipes, straight run (Sp 11)	system lines	materials
TSI-32-98	(Sp 8)		
TSI-33-99	Thermal System Insulation, large		
TSI-33-100	dia pipes, hard joints (Sp 11)		
TSI-33-101			
TSI-34-102	Thermal System Insulation, med		
TSI-34-103	dia pipes, hard joints (Sp 8 & Sp 11)		
TSI-34-104			
TSI-35-105	Thermal System Insulation, small		
TSI-35-106	dia pipes, hard joints (Sp 8 & Sp 11)		
TSI-35-107			
DW-36-108	Canvas Wrap plus TSI on HVAC	HVAC components	Analyze all layers
DW-36-109	ducts (Sp 6 & Sp 7)		present
DW-36-110			
CW-37-111	HVAC Water pipes Canvas wrap		
CW-37-112	Straight Runs (Sp 6 & Sp 7)		
CW-37-113			
HJ-38-114	HVAC Water pipes Canvas wrap		
HJ-38-115	Hard joints (Sp 6 & Sp 7)		
HJ-38-116			
G-39-117	Gaskets	All Gaskets	Analyze gasket
G-39-118		observed on	only
G-39-119		process system	
		Flanges	
LDP-40-120	Loading dock pads	5 Loading	Analyze pads
LDP-40-121		dock pads	only
LDP-40-122		observed	



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971988
Analysis ID: 71971988_PLM
Date Received: 8/9/2021
Date Reported: 8/10/2021

Project: PP0E00521 - Warehouse 14

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-1-1 - A	12x12 Camo FT (SP6-Rms 2-8, SP7-Rm 17, South end SP3, SP2-Rms 1&2), SP8-NE Corn	3% Chrysotile		97% Other	Beige Non Fibrous Homogeneous
71971988PLM_1	tile				Crushed, Dissolved
FT-1-1 - B	12x12 Camo FT (SP6-Rms 2-8, SP7-Rm 17, South end SP3, SP2-Rms 1&2), SP8-NE Corn	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971988PLM_133	mastic				Dissolved
FT-1-2 - A	12x12 Camo FT (SP6-Rms 2-8, SP7-Rm 17, South end SP3, SP2-Rms 1&2), SP8-NE Corn	3% Chrysotile		97% Other	Beige Non Fibrous Homogeneous
71971988PLM_2	tile				Crushed, Dissolved
FT-1-2 - B	12x12 Camo FT (SP6-Rms 2-8, SP7-Rm 17, South end SP3, SP2-Rms 1&2), SP8-NE Corn	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971988PLM_134	mastic				Dissolved
FT-1-3	12x12 Brown speckled FT (Sp3-All,) bottom layer	Not Analyzed			
71971988PLM_3	TEM				
FT-2-4 - A	12x12 Brown speckled FT (Sp3-All,) bottom layer	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971988PLM_4	mastic 1				Dissolved
FT-2-4 - B	12x12 Brown speckled FT (Sp3-All,) bottom layer	5% Chrysotile		95% Other	Gray Non Fibrous Homogeneous
71971988PLM_135	tile				Crushed, Dissolved
FT-2-4 - C	12x12 Brown speckled FT (Sp3-All,) bottom layer	3% Chrysotile		97% Other	Black Non Fibrous Homogeneous
71971988PLM_136	mastic 2				Dissolved

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Heather Davide (164)

Analyst



Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

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Lab Sample ID	Lab Notes				Treatment
FT-2-5 - A	12x12 Brown speckled FT (Sp3-All,) bottom layer	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971988PLM_5	mastic 1				Dissolved
FT-2-5 - B	12x12 Brown speckled FT (Sp3-All,) bottom layer	5% Chrysotile		95% Other	Gray Non Fibrous Homogeneous
71971988PLM_137	tile				Crushed, Dissolved
FT-2-5 - C	12x12 Brown speckled FT (Sp3-All,) bottom layer	3% Chrysotile		97% Other	Black Non Fibrous Homogeneous
71971988PLM_138	mastic 2				Dissolved
FT-2-6	12x12 Brown speckled FT (Sp3-All,) bottom layer	Not Analyzed			
71971988PLM_6	TEM				
FT-3-7 - A	12x12 Beige FT (Sp3-North end) top layer	3% Chrysotile		97% Other	Beige Non Fibrous Homogeneous
71971988PLM_7	tile				Crushed, Dissolved
FT-3-7 - B	12x12 Beige FT (Sp3-North end) top layer	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971988PLM_139	mastic				Dissolved
FT-3-8 - A	12x12 Beige FT (Sp3-North end) top layer	3% Chrysotile		97% Other	Beige Non Fibrous Homogeneous
71971988PLM_8	tile				Crushed, Dissolved
FT-3-8 - B	12x12 Beige FT (Sp3-North end) top layer	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971988PLM_140	mastic				Dissolved

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Lab Sample ID	Lab Notes				Treatment
FT-3-9	12x12 Beige FT (Sp3-North end) top layer	Not Analyzed			
71971988PLM_9	TEM				
FT-4-10 - A	12x12 Off-white streaked FT (SP6-Rms 1,9(3/4) 11-13, Sp7 -Rms 6&9), (Sp8-NE Corner)	2% Chrysotile		98% Other	Gray Non Fibrous Homogeneous
71971988PLM_10	tile				Crushed, Dissolved
FT-4-10 - B	12x12 Off-white streaked FT (SP6-Rms 1,9(3/4) 11-13, Sp7 -Rms 6&9), (Sp8-NE Corner)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971988PLM_141	mastic				Dissolved
FT-4-11 - A	12x12 Off-white streaked FT (SP6-Rms 1,9(3/4) 11-13, Sp7 -Rms 6&9), (Sp8-NE Corner)	2% Chrysotile		98% Other	Gray Non Fibrous Homogeneous
71971988PLM_11	tile				Crushed, Dissolved
FT-4-11 - B	12x12 Off-white streaked FT (SP6-Rms 1,9(3/4) 11-13, Sp7 -Rms 6&9), (Sp8-NE Corner)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971988PLM_142	mastic				Dissolved
FT-4-12	12x12 Off-white streaked FT (SP6-Rms 1,9(3/4) 11-13, Sp7 -Rms 6&9), (Sp8-NE Corner)	Not Analyzed			
71971988PLM_12	TEM				
FT-5-13 - A	12x12 Camo #2 FT (SP6-Rm 15) (SPI & ads) Top layer	5% Chrysotile		95% Other	Gray Non Fibrous Homogeneous
71971988PLM_13	tile				Crushed, Dissolved
FT-5-13 - B	12x12 Camo #2 FT (SP6-Rm 15) (SPI & ads) Top layer	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971988PLM_143	mastic				Dissolved

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Lab Sample ID	Lab Notes				Treatment
FT-5-14 - A	12x12 Camo #2 FT (SP6-Rm 15) (SPI & ads) Top layer	5% Chrysotile		95% Other	Gray Non Fibrous Homogeneous
71971988PLM_14	tile				Crushed, Dissolved
FT-5-14 - B	12x12 Camo #2 FT (SP6-Rm 15) (SPI & ads) Top layer	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971988PLM_144	mastic				Dissolved
FT-5-15	12x12 Camo #2 FT (SP6-Rm 15) (SPI & ads) Top layer	Not Analyzed			
71971988PLM_15	TEM				
FT-6-16 - A	12x12 Tan speckled FT (SP7-Rm 4) Top Layer	None Detected		100% Other	Tan Non Fibrous Homogeneous
71971988PLM_16	tile				Crushed, Dissolved
FT-6-16 - B	12x12 Tan speckled FT (SP7-Rm 4) Top Layer	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971988PLM_145	mastic				Dissolved
FT-6-17 - A	12x12 Tan speckled FT (SP7-Rm 4) Top Layer	None Detected		100% Other	Tan Non Fibrous Homogeneous
71971988PLM_17	tile				Crushed, Dissolved
FT-6-17 - B	12x12 Tan speckled FT (SP7-Rm 4) Top Layer	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971988PLM_146	mastic				Dissolved
FT-6-18	12x12 Tan speckled FT (SP7-Rm 4) Top Layer	Not Analyzed			
71971988PLM_18	TEM				

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT-7-19 - A	12x12 White streaked #2 FT (SP7-Rms 5&15, SPG-Rm 9 (1/4))	3% Chrysotile		97% Other	Beige Non Fibrous Homogeneous
71971988PLM_19	tile				Crushed, Dissolved
FT-7-19 - B	12x12 White streaked #2 FT (SP7-Rms 5&15, SPG-Rm 9 (1/4))	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971988PLM_147	mastic				Dissolved
FT-7-20 - A	12x12 White streaked #2 FT (SP7-Rms 5&15, SPG-Rm 9 (1/4))	3% Chrysotile		97% Other	Beige Non Fibrous Homogeneous
71971988PLM_20	tile				Crushed, Dissolved
FT-7-20 - B	12x12 White streaked #2 FT (SP7-Rms 5&15, SPG-Rm 9 (1/4))	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71971988PLM_148	mastic				Dissolved
FT-7-21	12x12 White streaked #2 FT (SP7-Rms 5&15, SPG-Rm 9 (1/4))	Not Analyzed			
71971988PLM_21	TEM				
FT-8-22 - A	12x12 Brown speckled FT (Sp7-Rm 13)	3% Chrysotile		97% Other	Brown Non Fibrous Homogeneous
71971988PLM_22	tile				Crushed, Dissolved
FT-8-22 - B	12x12 Brown speckled FT (Sp7-Rm 13)	3% Chrysotile		97% Other	Black Non Fibrous Homogeneous
71971988PLM_149	mastic				Dissolved
FT-8-23 - A	12x12 Brown speckled FT (Sp7-Rm 13)	3% Chrysotile		97% Other	Brown Non Fibrous Homogeneous
71971988PLM_23	tile				Crushed, Dissolved

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Lab Sample ID	Lab Notes				Treatment
FT-8-23 - B	12x12 Brown speckled FT (Sp7-Rm 13)	3% Chrysotile		97% Other	Black Non Fibrous Homogeneous
71971988PLM_150	mastic				Dissolved
FT-8-24	12x12 Brown speckled FT (Sp7-Rm 13)	Not Analyzed			
71971988PLM_24	TEM				
FT-9-25 - A	9x9 Cream FT (SP6-Rms 6&16, Sp7-Rm 3) (Sp7-Rm2) Top & bottom layer	None Detected		100% Other	Olive Non Fibrous Homogeneous
71971988PLM_25	tile				Crushed, Ashed
FT-9-25 - B	9x9 Cream FT (SP6-Rms 6&16, Sp7-Rm 3) (Sp7-Rm2) Top & bottom layer	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971988PLM_151	mastic				Dissolved
FT-9-26 - A	9x9 Cream FT (SP6-Rms 6&16, Sp7-Rm 3) (Sp7-Rm2) Top & bottom layer	3% Chrysotile		97% Other	Cream Non Fibrous Homogeneous
71971988PLM_26	tile				Crushed, Dissolved
FT-9-26 - B	9x9 Cream FT (SP6-Rms 6&16, Sp7-Rm 3) (Sp7-Rm2) Top & bottom layer	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971988PLM_152	mastic				Dissolved
FT-9-27	9x9 Cream FT (SP6-Rms 6&16, Sp7-Rm 3) (Sp7-Rm2) Top & bottom layer	Not Analyzed			
71971988PLM_27	TEM				
FT-10-28 - A	9x9 Brown streaked FT (SP6-Rms 1,2,3,4 & hall, 5,7,8,10,11,12,13), (SP7-Rm3)	6% Chrysotile		94% Other	Brown Non Fibrous Homogeneous
71971988PLM_28	tile				Crushed, Dissolved

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Lab Sample ID	Lab Notes				Treatment
FT-10-28 - B	9x9 Brown streaked FT (SP6-Rms 1,2,3,4 & hall, 5,7,8,10,11,12,13), (SP7-Rm3)	3% Chrysotile		97% Other	Black Non Fibrous Homogeneous
71971988PLM_153	mastic				Dissolved
FT-10-29 - A	9x9 Brown streaked FT (SP6-Rms 1,2,3,4 & hall, 5,7,8,10,11,12,13), (SP7-Rm3)	6% Chrysotile		94% Other	Brown Non Fibrous Homogeneous
71971988PLM_29	tile				Crushed, Dissolved
FT-10-29 - B	9x9 Brown streaked FT (SP6-Rms 1,2,3,4 & hall, 5,7,8,10,11,12,13), (SP7-Rm3)	3% Chrysotile		97% Other	Black Non Fibrous Homogeneous
71971988PLM_154	mastic				Dissolved
FT-10-30	9x9 Brown streaked FT (SP6-Rms 1,2,3,4 & hall, 5,7,8,10,11,12,13), (SP7-Rm3)	Not Analyzed			
71971988PLM_30	TEM				
FT-11-31 - A	9x9 Brown marbled FT (SP6-Rms 14&15) Top & bottom layers	5% Chrysotile		95% Other	Tan Non Fibrous Homogeneous
71971988PLM_31	tile				Crushed, Dissolved
FT-11-31 - B	9x9 Brown marbled FT (SP6-Rms 14&15) Top & bottom layers	None Detected		100% Other	Black Non Fibrous Homogeneous
71971988PLM_155	mastic				Dissolved
FT-11-32 - A	9x9 Brown marbled FT (SP6-Rms 14&15) Top & bottom layers	5% Chrysotile		95% Other	Tan Non Fibrous Homogeneous
71971988PLM_32	tile				Crushed, Dissolved
FT-11-32 - B	9x9 Brown marbled FT (SP6-Rms 14&15) Top & bottom layers	None Detected		100% Other	Black Non Fibrous Homogeneous
71971988PLM_156	mastic				Dissolved

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Lab Sample ID	Lab Notes				Treatment
FT-11-33	9x9 Brown marbled FT (SP6-Rms 14&15) Top & bottom layers	Not Analyzed			
71971988PLM_33	TEM				
FT-12-34 - A	9x9 Olive Green FT (Sp7-Rm 3 hallway only, Rm 4,5 (in hidden chase only)	None Detected		100% Other	Olive Non Fibrous Homogeneous
71971988PLM_34	tile				Crushed, Ashed
FT-12-34 - B	9x9 Olive Green FT (Sp7-Rm 3 hallway only, Rm 4,5 (in hidden chase only)	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971988PLM_157	mastic				Dissolved
FT-12-35 - A	9x9 Olive Green FT (Sp7-Rm 3 hallway only, Rm 4,5 (in hidden chase only)	None Detected		100% Other	Olive Non Fibrous Homogeneous
71971988PLM_35	tile				Crushed, Ashed
FT-12-35 - B	9x9 Olive Green FT (Sp7-Rm 3 hallway only, Rm 4,5 (in hidden chase only)	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971988PLM_158	mastic				Dissolved
FT-12-36	9x9 Olive Green FT (Sp7-Rm 3 hallway only, Rm 4,5 (in hidden chase only)	Not Analyzed			
71971988PLM_36	TEM				
FT-13-37 - A	9x9 Brown coffee FT (Sp7-rm 16)	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971988PLM_37	tile				Crushed, Ashed
FT-13-37 - B	9x9 Brown coffee FT (Sp7-rm 16)	3% Chrysotile		97% Other	Black Non Fibrous Homogeneous
71971988PLM_159	mastic				Dissolved

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Lab Sample ID	Lab Notes				Treatment
FT-13-38 - A	9x9 Brown coffee FT (Sp7-rm 16)	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971988PLM_38	tile				Crushed, Ashed
FT-13-38 - B	9x9 Brown coffee FT (Sp7-rm 16)	3% Chrysotile		97% Other	Black Non Fibrous Homogeneous
71971988PLM_160	mastic				Dissolved
FT-13-39	9x9 Brown coffee FT (Sp7-rm 16)	Not Analyzed			
71971988PLM_39	TEM				
BBI-14-40	Tan BBI (Sp3-Above ceiling & in east wall, Sp-6 Rms 6&16 ceiling, Sp7-Rm4 all but	None Detected	60% Cellulose 10% Fiber Glass	30% Other	Black, Brown Non Fibrous Homogeneous
71971988PLM_40					Crushed, Dissolved
BBI-14-41	Tan BBI (Sp3-Above ceiling & in east wall, Sp-6 Rms 6&16 ceiling, Sp7-Rm4 all but	None Detected	60% Cellulose 10% Fiber Glass	30% Other	Black, Brown Non Fibrous Homogeneous
71971988PLM_41					Crushed, Dissolved
BBI-14-42	Tan BBI (Sp3-Above ceiling & in east wall, Sp-6 Rms 6&16 ceiling, Sp7-Rm4 all but	Not Analyzed			
71971988PLM_42	TEM				
BBI-15-43	Pink BBI (Sp6-Rm 12 west wall, Rm 13 west wall, Rm 14 west wall, Sp7-Rm 5 ceiling)	None Detected	60% Cellulose 10% Fiber Glass	30% Other	Black, Brown Non Fibrous Homogeneous
71971988PLM_43					Crushed, Dissolved
BBI-15-44	Pink BBI (Sp6-Rm 12 west wall, Rm 13 west wall, Rm 14 west wall, Sp7-Rm 5 ceiling)	None Detected	60% Cellulose 10% Fiber Glass	30% Other	Black, Brown Non Fibrous Homogeneous
71971988PLM_44					Crushed, Dissolved

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Lab Sample ID	Lab Notes				Treatment
BBI-15-45	Pink BBI (Sp6-Rm 12 west wall, Rm 13 west wall, Rm 14 west wall, Sp7-Rm 5 ceiling)	Not Analyzed			
71971988PLM_45	TEM				
CT-16-46	1'x1' Wormhole CT Sp 3	None Detected	45% Cellulose 45% Fiber Glass	7% Perlite 3% Other	Gray, White Fibrous Heterogeneous
71971988PLM_46					Teased
CT-16-47	1'x1' Wormhole CT Sp 3	None Detected	45% Cellulose 45% Fiber Glass	7% Perlite 3% Other	Gray, White Fibrous Heterogeneous
71971988PLM_47					Teased
CT-16-48	1'x1' Wormhole CT Sp 3	None Detected	45% Cellulose 45% Fiber Glass	7% Perlite 3% Other	Gray, White Fibrous Heterogeneous
71971988PLM_48					Teased
CT-17-49	1'x1' Smooth CT Sp 5	None Detected	45% Cellulose 45% Fiber Glass	7% Perlite 3% Other	Gray, White Fibrous Heterogeneous
71971988PLM_49					Teased
CT-17-50	1'x1' Smooth CT Sp 5	None Detected	45% Cellulose 45% Fiber Glass	7% Perlite 3% Other	Gray, White Fibrous Heterogeneous
71971988PLM_50					Teased
CT-17-51	1'x1' Smooth CT Sp 5	None Detected	45% Cellulose 45% Fiber Glass	7% Perlite 3% Other	Gray, White Fibrous Heterogeneous
71971988PLM_51					Teased
CT-18-52	1'x1' Swirl CT (Sp6-Rms 1&6)	None Detected	60% Cellulose 30% Fiber Glass	7% Perlite 3% Other	Gray, White Fibrous Heterogeneous
71971988PLM_52					Teased

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Heather Davide (164)

Analyst

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



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Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CT-18-53	1'x1' Swirl CT (Sp6-Rms 1&6)	None Detected	60% Cellulose 30% Fiber Glass	7% Perlite 3% Other	Gray, White Fibrous Heterogeneous
71971988PLM_53					Teased
CT-18-54	1'x1' Swirl CT (Sp6-Rms 1&6)	None Detected	60% Cellulose 30% Fiber Glass	7% Perlite 3% Other	Gray, White Fibrous Heterogeneous
71971988PLM_54					Teased
TB-19-55 - A	4" Black toeboard (Sp 5)	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971988PLM_55	toeboard				Crushed, Ashed
TB-19-55 - B	4" Black toeboard (Sp 5)	None Detected		100% Other	Cream, Brown Non Fibrous Homogeneous
71971988PLM_161	mastic				Dissolved
TB-19-56 - A	4" Black toeboard (Sp 9)	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971988PLM_56	toeboard				Crushed, Ashed
TB-19-56 - B	4" Black toeboard (Sp 9)	None Detected		100% Other	Cream, Brown Non Fibrous Homogeneous
71971988PLM_162	mastic				Dissolved
TB-19-57	4" Black toeboard (Sp 9)	Not Analyzed			
71971988PLM_57	TEM				
TB-20-58 - A	4" Black toeboard (Sp 5)	None Detected		100% Other	Black Non Fibrous Homogeneous
71971988PLM_58	toeboard				Crushed, Ashed

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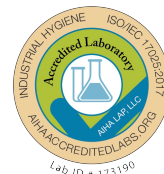
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Lab Sample ID	Lab Notes				Treatment
TB-20-58 - B	4" Black toeboard (Sp 5)	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971988PLM_163	mastic				Dissolved
TB-20-59 - A	4" Black toeboard (Sp 5)	None Detected		100% Other	Black Non Fibrous Homogeneous
71971988PLM_59	toeboard				Crushed, Ashed
TB-20-59 - B	4" Black toeboard (Sp 5)	None Detected		100% Other	Brown Non Fibrous Homogeneous
71971988PLM_164	mastic				Dissolved
TB-20-60	4" Black toeboard (Sp 5)	Not Analyzed			
71971988PLM_60	TEM				
WPM-21-61	Mastic on wood panel (Sp 6-Rms 6&16)	None Detected		100% Other	Tan Non Fibrous Homogeneous
71971988PLM_61					Dissolved
WPM-21-62	Mastic on wood panel (Sp 6-Rms 6&16)	None Detected		100% Other	Tan Non Fibrous Homogeneous
71971988PLM_62					Crushed, Dissolved
WPM-21-63	Mastic on wood panel (Sp 6-Rms 6&16)	Not Analyzed			
71971988PLM_63	TEM				
FF-22-64	Red floor felt under wood floor (Sp7-In hallway adjacent to rms 13 & 14)	None Detected	98% Cellulose	2% Other	Red Fibrous Homogeneous
71971988PLM_64					Ashed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FF-22-65	Red floor felt under wood floor (Sp7-In hallway adjacent to rms 13 & 14)	None Detected	98% Cellulose	2% Other	Red Fibrous Homogeneous
71971988PLM_65					Ashed
FF-22-66	Red floor felt under wood floor (Sp7-In hallway adjacent to rms 13 & 14)	None Detected	98% Cellulose	2% Other	Red Fibrous Homogeneous
71971988PLM_66					Ashed
M-23-67	Mastic underneath stair mats (Sp7-2 stairwells)	None Detected		100% Other	Tan Non Fibrous Homogeneous
71971988PLM_67					Dissolved
M-23-68	Mastic underneath stair mats (Sp7-2 stairwells)	None Detected		100% Other	Tan Non Fibrous Homogeneous
71971988PLM_68					Dissolved
M-23-69	Mastic underneath stair mats (Sp7-2 stairwells)	Not Analyzed			
71971988PLM_69	TEM				
VD-24-70	Vibration dampener (Sp7-Rm1)	None Detected	20% Fiber Glass	80% Other	Black Non Fibrous Homogeneous
71971988PLM_70					Ashed
VD-24-71	Vibration dampener (Sp7-Rm1)	None Detected	20% Fiber Glass	80% Other	Black Non Fibrous Homogeneous
71971988PLM_71					Ashed
VD-24-72	Vibration dampener (Sp7-Rm1)	None Detected	20% Fiber Glass	80% Other	Black Non Fibrous Homogeneous
71971988PLM_72					Ashed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
BBI-25-73	Brown kraft paper around yellow fiberglass around HVAC duct (Sp7 & Rm1)	None Detected	80% Cellulose	20% Other	Black, Tan Fibrous Homogeneous
71971988PLM_73					Ashed
BBI-25-74	Brown kraft paper around yellow fiberglass around HVAC duct (Sp7 & Rm1)	None Detected	80% Cellulose	20% Other	Black, Tan Fibrous Homogeneous
71971988PLM_74					Ashed
BBI-25-75	Brown kraft paper around yellow fiberglass around HVAC duct (Sp7 & Rm1)	Not Analyzed			
71971988PLM_75					
S-26-76	Surfacing plaster 1 (Sp 10)	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971988PLM_76	single layer plaster				Crushed
S-26-77	Surfacing plaster 1 (Sp 10)	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971988PLM_77	single layer plaster				Crushed
S-26-78	Surfacing plaster 1 (Sp 10)	None Detected		100% Other	Gray Non Fibrous Homogeneous
71971988PLM_78	single layer plaster				Crushed
S-27-79	Surfacing plaster 2 (Sp 9)	None Detected		100% Other	White Non Fibrous Homogeneous
71971988PLM_79					Crushed
S-27-80	Surfacing plaster 2 (Sp 9)	None Detected		100% Other	White Non Fibrous Homogeneous
71971988PLM_80					Crushed

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Lab Sample ID	Lab Notes				Treatment
S-27-81	Surfacing plaster 2 (Sp 9)	None Detected		100% Other	White Non Fibrous Homogeneous
71971988PLM_81					Crushed
FH-28-82	Fire hose (Sp 8)	None Detected	60% Synthetic Fibers	40% Other	White, Black Fibrous Homogeneous
71971988PLM_82					Ashed
FH-28-83	Fire hose (Sp 8)	None Detected	60% Synthetic Fibers	40% Other	White, Black Fibrous Homogeneous
71971988PLM_83					Ashed
FH-28-84	Fire hose (Sp 8)	None Detected	60% Synthetic Fibers	40% Other	White, Black Fibrous Homogeneous
71971988PLM_84					Ashed
TSI-29-85	Thermal system insulation, med diameter, straight run (Sp 11)	30% Chrysotile 10% Amosite	30% Cellulose	30% Other	Gray, Tan Fibrous Heterogeneous
71971988PLM_85	inseparable layers				Teased
TSI-29-86	Thermal system insulation, med diameter, straight run (Sp 11)	30% Chrysotile 10% Amosite	30% Cellulose	30% Other	Gray, Tan Fibrous Heterogeneous
71971988PLM_86	inseparable layers				Teased
TSI-29-87	Thermal system insulation, med diameter, straight run (Sp 8)	30% Chrysotile 10% Amosite	30% Cellulose	30% Other	Gray, Tan Fibrous Heterogeneous
71971988PLM_87	inseparable layers				Teased
TSI-30-88	Thermal system insulation, large diameter, straight run (Sp 11)	30% Chrysotile 10% Amosite	30% Cellulose	30% Other	Gray, Tan Fibrous Heterogeneous
71971988PLM_88	inseparable layers				Teased

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TSI-30-89	Thermal system insulation, large diameter, straight run (Sp 11)	30% Chrysotile 10% Amosite	30% Cellulose	30% Other	Gray, Tan Fibrous Heterogeneous
71971988PLM_89	inseparable layers				Teased
TSI-30-90	Thermal system insulation, large diameter, straight run (Sp 11)	30% Chrysotile 10% Amosite	30% Cellulose	30% Other	Gray, Tan Fibrous Heterogeneous
71971988PLM_90	inseparable layers				Teased
DW-31-91 - A	Drywall joint compound	None Detected	10% Cellulose	90% Other	Gray Non Fibrous Homogeneous
71971988PLM_91	drywall				Crushed
DW-31-91 - B	Drywall joint compound	3% Chrysotile		97% Other	Tan Non Fibrous Homogeneous
71971988PLM_123	joint compound				Crushed
DW-31-92 - A	Drywall joint compound	None Detected	10% Cellulose	90% Other	Gray Non Fibrous Homogeneous
71971988PLM_92	drywall				Crushed
DW-31-92 - B	Drywall joint compound	3% Chrysotile		97% Other	Tan Non Fibrous Homogeneous
71971988PLM_124	joint compound				Crushed
DW-31-93 - A	Drywall joint compound	None Detected	10% Cellulose	90% Other	Gray Non Fibrous Homogeneous
71971988PLM_93	drywall				Crushed
DW-31-93 - B	Drywall joint compound	3% Chrysotile		97% Other	Tan Non Fibrous Homogeneous
71971988PLM_125	joint compound				Crushed

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Lab Sample ID	Lab Notes				Treatment
DW-31-94 - A	Drywall joint compound	None Detected	10% Cellulose	90% Other	Gray Non Fibrous Homogeneous
71971988PLM_94	drywall				Crushed
DW-31-94 - B	Drywall joint compound	3% Chrysotile		97% Other	Tan Non Fibrous Homogeneous
71971988PLM_126	joint compound				Crushed
DW-31-95	Drywall joint compound	None Detected	10% Cellulose	90% Other	Gray Non Fibrous Homogeneous
71971988PLM_95	drywall only				Crushed
TSI-32-96	Thermal system insulation, small dia pipes, straight run (Sp 11)	None Detected	70% Cellulose	30% Other	White Fibrous Homogeneous
71971988PLM_96					Dissolved
TSI-32-97	Thermal system insulation, small dia pipes, straight run (Sp 11)	None Detected	70% Cellulose	30% Other	White Fibrous Homogeneous
71971988PLM_97					Dissolved
TSI-32-98	Thermal system insulation, small dia pipes, straight run (Sp 8)	None Detected	70% Cellulose	30% Other	White Fibrous Homogeneous
71971988PLM_98					Dissolved
TSI-33-99	Thermal system insulation, large dia pipes, hard joints (Sp 11)	30% Chrysotile 3% Amosite		67% Other	Gray Fibrous Homogeneous
71971988PLM_99					Teased
TSI-33-100	Thermal system insulation, large dia pipes, hard joints (Sp 11)	30% Chrysotile 3% Amosite		67% Other	Gray Fibrous Homogeneous
71971988PLM_100					Teased

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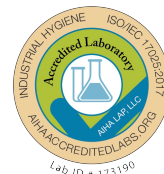
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Lab Sample ID	Lab Notes				Treatment
TSI-33-101	Therma system insulation, large dia pipes, hard joints (Sp 11)	30% Chrysotile 3% Amosite		67% Other	Gray Fibrous Homogeneous
71971988PLM_101					Teased
TSI-34-102	Thermal system insulation, med dia pipes, hard joints (Sp 8 & Sp 11)	30% Chrysotile 3% Amosite		67% Other	Gray Fibrous Homogeneous
71971988PLM_102					Teased
TSI-34-103	Thermal system insulation, med dia pipes, hard joints (Sp 8 & Sp 11)	30% Chrysotile 10% Amosite		60% Other	Gray Fibrous Homogeneous
71971988PLM_103					Teased
TSI-34-104	Thermal system insulation, med dia pipes, hard joints (Sp 8 & Sp 11)	30% Chrysotile 10% Amosite		60% Other	Gray Fibrous Homogeneous
71971988PLM_104					Teased
TSI-35-105 - A	Thermal system insulation, small dia pipes, hard joints (Sp 8 & Sp 11)	None Detected	70% Cellulose	30% Other	White Fibrous Homogeneous
71971988PLM_105	wrap				Dissolved
TSI-35-105 - B	Thermal system insulation, small dia pipes, hard joints (Sp 8 & Sp 11)	None Detected	40% Fiber Glass	60% Other	Gray Fibrous Homogeneous
71971988PLM_127	insulation				Teased
TSI-35-106 - A	Thermal system insulation, small dia pipes, hard joints (Sp 8 & Sp 11)	None Detected	70% Cellulose	30% Other	White Fibrous Homogeneous
71971988PLM_106	wrap				Dissolved
TSI-35-106 - B	Thermal system insulation, small dia pipes, hard joints (Sp 8 & Sp 11)	None Detected	40% Fiber Glass	60% Other	Gray Fibrous Homogeneous
71971988PLM_128	insulation				Teased

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Lab Sample ID	Lab Notes				Treatment
TSI-35-107	Thermal system insulation, small dia pipes, hard joints (Sp 8 & Sp 11)	20% Chrysotile	20% Fiber Glass 20% Cellulose	40% Other	Gray, White Fibrous Heterogeneous
71971988PLM_107	inseparable layers				Teased
DW-36-108	Canvas wrap plus TSI on HVAC ducts (Sp 6 & Sp 7)	30% Chrysotile	40% Cellulose	30% Other	Gray, White Fibrous Heterogeneous
71971988PLM_108	inseparable layers				Teased
DW-36-109 - A	Canvas wrap plus TSI on HVAC ducts (Sp 6 & Sp 7)	None Detected	70% Cellulose	30% Other	White Fibrous Homogeneous
71971988PLM_109	wrap				Dissolved
DW-36-109 - B	Canvas wrap plus TSI on HVAC ducts (Sp 6 & Sp 7)	None Detected	40% Fiber Glass	60% Other	Gray Fibrous Homogeneous
71971988PLM_129	insulation				Teased
DW-36-110	Canvas wrap plus TSI on HVAC ducts (Sp 6 & Sp 7)	20% Chrysotile	20% Fiber Glass 20% Cellulose	40% Other	Gray, White Fibrous Heterogeneous
71971988PLM_110	inseparable layers				Teased
CW-37-111	HVAC water pipes canvas wrap straight runs (Sp 6 & Sp 7)	None Detected	70% Cellulose	30% Other	White Fibrous Homogeneous
71971988PLM_111					Dissolved
CW-37-112	HVAC water pipes canvas wrap straight runs (Sp 6 & Sp 7)	None Detected	70% Cellulose	30% Other	White Fibrous Homogeneous
71971988PLM_112					Dissolved
CW-37-113	HVAC water pipes canvas wrap straight runs (Sp 6 & Sp 7)	None Detected	70% Cellulose	30% Other	White Fibrous Homogeneous
71971988PLM_113					Dissolved

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Date Reported: 8/10/2021

Project: PP0E00521 - Warehouse 14

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
HJ-38-114 - A	HVAC water pipes canvas wrap hard joints (Sp 6 & Sp 7)	None Detected	70% Cellulose	30% Other	White Fibrous Homogeneous
71971988PLM_114	wrap				Dissolved
HJ-38-114 - B	HVAC water pipes canvas wrap hard joints (Sp 6 & Sp 7)	None Detected	40% Cellulose	60% Other	Gray Fibrous Homogeneous
71971988PLM_130	insulation				Teased
HJ-38-115 - A	HVAC water pipes canvas wrap hard joints (Sp 6 & Sp 7)	None Detected	70% Cellulose	30% Other	White Fibrous Homogeneous
71971988PLM_115	wrap				Dissolved
HJ-38-115 - B	HVAC water pipes canvas wrap hard joints (Sp 6 & Sp 7)	None Detected	40% Cellulose	60% Other	Gray Fibrous Homogeneous
71971988PLM_131	insulation				Teased
HJ-38-116 - A	HVAC water pipes canvas wrap hard joints (Sp 6 & Sp 7)	None Detected	70% Cellulose	30% Other	White Fibrous Homogeneous
71971988PLM_116	wrap				Dissolved
HJ-38-116 - B	HVAC water pipes canvas wrap hard joints (Sp 6 & Sp 7)	None Detected	40% Fiber Glass	60% Other	Gray Fibrous Homogeneous
71971988PLM_132	insulation				Teased
G-39-117	Gaskets	None Detected		100% Other	Red Non Fibrous Homogeneous
71971988PLM_117					Ashed
G-39-118	Gaskets	None Detected	40% Cellulose	60% Other	Green Fibrous Homogeneous
71971988PLM_118					Ashed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAL. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Heather Davide (164)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71971988
Analysis ID: 71971988_PLM
Date Received: 8/9/2021
Date Reported: 8/10/2021

Project: PP0E00521 - Warehouse 14

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
G-39-119	Gaskets	Not Analyzed			
71971988PLM_119	TEM				
LDP-40-120	Loading dock pads	None Detected	20% Synthetic Fibers	80% Other	Black Non Fibrous Homogeneous
71971988PLM_120					Ashed
LDP-40-121	Loading dock pads	None Detected	20% Synthetic Fibers	80% Other	Black Non Fibrous Homogeneous
71971988PLM_121					Ashed
LDP-40-122	Loading dock pads	None Detected	20% Synthetic Fibers	80% Other	Black Non Fibrous Homogeneous
71971988PLM_122					Ashed

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Heather Davide (164)

Analyst



Approved Signatory



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Lab Use Only
Lab Order ID: 71971988
Client Code: _____

Company Contact Information

Company: GEL Engineering, LLC	Contact: Ron Sharpe/Sarah Browning
Address: 2040 Savage Road	Phone <input type="checkbox"/> : 843/769-7378
Charleston, SC 29407	Fax <input type="checkbox"/> : 843/769-7397
	Email <input checked="" type="checkbox"/> : ronald.sharpe@gel.com
	sarah.browning@gel.com

Billing/Invoice Information

Company:	90 Min. <input type="checkbox"/>	48 Hours <input type="checkbox"/>
Contact: Same	3 Hours <input type="checkbox"/>	72 Hours <input type="checkbox"/>
Address: AS	6 Hours <input type="checkbox"/>	96 Hours <input type="checkbox"/>
ABOVE	12 Hours <input type="checkbox"/>	120 Hours <input type="checkbox"/>
	24 Hours <input checked="" type="checkbox"/>	144+ Hours <input type="checkbox"/>

Turn Around Times

Asbestos Test Types

PLM EPA 600/R-93/116 (PLM)	<input checked="" type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/> TWA (PTA) <input type="checkbox"/>	
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input checked="" type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>

PO Number:

Project Name/Number: PPOE00521 ~ Warehouse 14

8/5/21

✓ = TEM

* Run PLM+TEM simultaneously *

Sample ID #	Description/Location	Volume/Area	Comments
FT-1-1	12x12 Camo FT (SP6-Rms 2-8,	3821 SF	Analyze tile & mastic
✓ FT-1-2	SP7-Rm 17, South end SP3, SP2-Rms 1 & 2)	↓	(if present)
✓ FT-1-3	SP8-NE Corner) ↓	↓	
FT-2-4	12x12 Brown Speckled FT (SP3-All,	1923 SF	
FT-2-5	SP7 Rm 13 ⊗ Bottom Layer	↓ 1,430	
✓ FT-2-6	↓	↓	
FT-3-7	12x12 Beige FT (SP3-North End)	1,088 SF	
✓ FT-3-8	Top Layer ↓	↓	
✓ FT-3-9	↓	↓	
FT-4-10	12x12 Off-White Streaked FT (SP6-Rms 1, 9 & 10)	2,008 SF	
✓ FT-4-11	11-13, Sp7-Rms 6 & 9, (SP8-NE Corner)	↓	
✓ FT-4-12	Top Layer ↓	↓	
		Total # of Samples	122

Relinquished by	Date/Time	Received by	Date/Time
<i>[Signature]</i>	8/6/21 @ 0915	<i>[Signature]</i>	8/9
			10:30 AM

Accepted ☒

Rejected ☐

Page 1 of 4
A-F-017 EXP: 2/4/2021



*** Run PLM + TEM simultaneously ***
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 Lab Order ID: 71971988
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Sample ID #	Specific Location	Volume/Area	Comments
FT-5-13	12x12 Camo #2 FT (SP6-Rm 15)	382 SF	Analyze tile + mastic
✓ FT-5-14	(SP1 + adj) Top Layer	↓	(if present)
✓ FT-5-15	↓	↓	
FT-6-16	12x12 Tan Speckled FT (SP7-Rm 4)	240 SF	
✓ FT-6-17	Top Layer	↓	
✓ FT-6-18	↓	↓	
FT-7-19	12x12 White Streaked #2 FT	551 SF	
FT-7-20	(SP7-Rms 5+15, SP6-Rm 9 (1/4))	↓	
✓ FT-7-21	↓	↓	
FT-8-22	12x12 Brown Speckled FT	495 SF	
✓ FT-8-23	(SP7-Rm 13) ↓	↓	
✓ FT-8-24	↓	↓	
FT-9-25	9x9 Cream FT (SP6-Rms 6+16,	1675 SF	
FT-9-26	SP7-Rm 3+hall), (SP7-Rm 2)	↓	
✓ FT-9-27	Top + bottom Layers ↓	↓	
FT-10-28	9x9 Brown Streaked FT (SP6-Rms 1,2,	4250 SF	
FT-10-29	3,4+hall, 5, 7, 8, 10, 11, 12, 13),	↓	
✓ FT-10-30	(SP7-Rms 6-12) Top + bottom Layers	↓	
FT-11-31	9x9 Brown Marbled FT (SP6-Rms 14+15)	272 SF	
✓ FT-11-32	Top + Bottom Layers	↓	
✓ FT-11-33	↓	↓	
FT-12-34	9x9 Olive Green FT (SP7-Rm 3 hallway	504 SF	
✓ FT-12-35	only, Rm 4, 5 (in hidden chase only)	↓	
✓ FT-12-36	↓	↓	
FT-13-37	9x9 Brown Coffee FT (SP7-Rm 16),	225 SF	
✓ FT-13-38	↓	↓	
✓ FT-13-39	↓	↓	
BBI-14-40	Tan BBI (Sp3-Above ceiling + in east	4450 SF	Analyze black ball
BBI-14-41	wall, SP-6 Rms 6+16 ceiling, SP7-Rm 4	↓	only
✓ BBI-14-42	all but south wall, Rm 5 walls)	↓	
BBI-15-43	Pink BBI (Sp6-Rm 12 west wall, Rm	530 SF	
BBI-15-44	13 west wall, Rm 14 west wall, SP7-	↓	
✓ BBI-15-45	Rm 5 ceiling)	↓	
CT-16-46	1'x1' Wormhole CT Sp 3	30 SF	Analyze ceiling
CT-16-47	↓	↓	tile only
CT-16-48	↓	↓	
CT-17-49	1'x1' Smooth CT Sp 5	180 SF	
CT-17-50	↓	↓	
CT-17-51	↓	↓	

* Run PLM+TEM simultaneously *



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Sample ID #	Specific Location	Volume/Area	Comments
CT-18-52	1'x1' Swirl CT (Sp6-Rms 1+6)	984 SF	Analyze ceiling
CT-18-53	↓	↓	tile only
CT-18-54	↓	↓	↓
TB-19-55	4" Brown toe board (Sp 4)	110 SF LF	Analyze toe board
TB-19-56	(Sp 9)	~110	+ mastic
✓ TB-19-57	↓	↓	↓
TB-20-58	4" Black toeboard (Sp 5)	56 LF	↓
✓ TB-20-59	↓	↓	↓
✓ TB-20-60	↓	↓	↓
WPM-21-61	Mastic on wood panel (Sp6-	1400 SF	Analyze mastic only
✓ WPM-21-62	Rms 6 + 16)	↓	↓
✓ WPM-21-63	↓	↓	↓
FF-22-64	Red floor felt under wood floor	100 SF	Analyze felt only
FF-22-65	(SP7 - In hallway adjacent to rms	↓	↓
FF-22-66	13+14)	↓	↓
M-23-67	Mastic underneath stair mats	105 SF	Analyze mastic only
M-23-68	(SP7 - 2 Stairwell/s)	↓	↓
✓ M-23-69	↓	↓	↓
VD-24-70	Vibration dampener (SP7-Rm 1)	1 Unit observed	Analyze dampener only
VD-24-71	↓	↓	↓
VD-24-72	↓	↓	↓
BBI-25-73	Brown Kraft paper around yellow	1120 SF	Analyze kraft paper
BBI-25-74	fiberglass around HVAC duct	↓	only
✓ BBI-25-75	(Sp7-Rm 1)+	↓	↓
S-26-76	Surfacing plaster 1 (Sp 10)	660 SF	Analyze skimcoat
S-26-77	↓	↓	+ base coat.
S-26-78	↓	↓	↓
S-27-79	Surfacing plaster 2 (Sp 9)	155 SF	↓
S-27-80	↓	↓	↓
S-27-81	↓	↓	↓
FH-28-82	Fire Hose (Sp 8)	All fire hoses	Analyze fire hose
FH-28-83	↓	found	only
FH-28-84	↓	↓	↓
TSI-29-85	Thermal System Insulation, med	Process	Analyze all TSI
TSI-29-86	diameter, straightrun (Sp 11)	System Lines	materials
TSI-29-87	(Sp 8)	↓	↓
TSI-30-88	Thermal System Insulation, large	↓	↓
TSI-30-89	diameter, straight run (Sp 11)	↓	↓
TSI-30-90	↓	↓	↓

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Lab Use Only 71971988
Lab Order ID:
Client Code:

Sample ID #	Specific Location	Volume/Area	Comments
DW-31-41	Drywall joint compound	< 5000 sf	Analyze drywall
DW-31-92			and joint compound
DW-31-93			only.
DW-31-94			
DW-31-95			
TSI-32-96	Thermal System Insulation, small	Process	Analyze all TSI
TSI-32-97	dia pipes, straight run (Sp 11)	system lines	materials
TSI-32-98	(Sp 8)		
TSI-33-99	Thermal System Insulation, large		
TSI-33-100	dia pipes, hard joints (Sp 11)		
TSI-33-101			
TSI-34-102	Thermal System Insulation, med		
TSI-34-103	dia pipes, hard joints (Sp 8 + Sp 11)		
TSI-34-104			
TSI-35-105	Thermal System Insulation, small		
TSI-35-106	dia pipes, hard joints (Sp 8 + Sp 11)		
TSI-35-107			
DW-36-108	Canvas Wrap plus TSI on HVAC	HVAC components	Analyze all layers
DW-36-109	ducts (Sp 6 + Sp 7)		present
DW-36-110			
CW-37-111	HVAC Water pipes Canvas wrap		
CW-37-112	Straight Runs (Sp 6 + Sp 7)		
CW-37-113			
HJ-38-114	HVAC Water pipes Canvas wrap		
HJ-38-115	Hard joints (Sp 6 + Sp 7)		
HJ-38-116			
G-39-117	Gaskets (All Gaskets	Analyze gasket
G-39-118		observed on	only
G-39-119		process system	
		flanges	
LDP-40-120	Loading dock pads	S Loading	Analyze pads
LDP-40-121		dock pads	only
LDP-40-122		observed	



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Sarah Browning
Ron Sharpe

Lab Order ID: 71972485

Analysis ID: 71972485_TB

Date Received: 8/13/2021

Date Reported: 8/20/2021

Project: PP0E00521- Roofs 8/9/21

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes			(Wt. %)		(Wt. %)
BUR-1-3	Built up roof membrane (Entire roof)	11%	-	None Detected		
71972485TBS_1						
C-3-9	Gray caulk on aluminum siding anchor points (Structure 2)	78%	-	0.22 %	Chrysotile	0.20% - 0.24%
71972485TBS_2						
F-4-12	Silver coated flashing on parapet wall (South parapet wall)	64%	-	None Detected		
71972485TBS_3						
F-6-18	Flashing on penetrations, structures, and parapet walls	65%	-	None Detected		
71972485TBS_4						
BUR-7-21	Warehouse 12 Built up roof membrane (Entire roof)	78%	-	None Detected		
71972485TBS_5						
F-8-24	Flashing on 4 HCS parapet walls (Caulk)	79%	-	0.41 %	Chrysotile	0.37% - 0.46%
71972485TBS_6						

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Daniel Schwartz (35)

Analyst

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Approved Signatory



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Semi-Quantitative
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Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes			(Wt. %)		(Wt. %)
C-9-27	Caulk on parapet walls (On top)	56%	-	13 %	Chrysotile	12% - 14%
71972485TBS_7						
F-10-30	Flashing on parapet walls and 4 penetrations	70.%	-	None Detected		
71972485TBS_8						
C-11-33	Caulk on vents (12 vents)	80.%	-	None Detected		
71972485TBS_9						
BUR-12-36	Built up roof membrane (Entire roof)	67%	-	0.33 %	Chrysotile	0.30% - 0.37%
71972485TBS_10						
F-13-39	Flashing on parapet walls and penetrations	79%	-	0.21 %	Chrysotile	0.19% - 0.23%
71972485TBS_11						
M-14-42	Flashing mastic on parapet walls	51%	-	2.4 %	Chrysotile	2.2% - 2.7%
71972485TBS_12						

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Project: PP0E00521- Roofs 8/9/21

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes			(Wt. %)		(Wt. %)
C-15-45	Caulk on flashing on parapet walls	50. %	-	0.50 %	Chrysotile	0.45% - 0.55%
71972485TBS_13						
C-16-48	Caulk on vents (3 vents only)	47%	-	0.54 %	Chrysotile	0.48% - 0.59%
71972485TBS_14						
BUR-17-51	Built up roofing (Entire roof)	82%	-	None Detected		
71972485TBS_15						
F-18-54	Flahing of parapet walls and penetrations	48%	-	0.52 %	Chrysotile	0.47% - 0.58%
71972485TBS_16						
C-19-57	Caulk on top of parapet all	61%	-	12 %	Chrysotile	10.% - 13%
71972485TBS_17						
BUR-20-60	Built up roofing (Entire roof)	55%	-	None Detected		
71972485TBS_18						

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Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes			(Wt. %)		(Wt. %)
F-23-69-a	Flashing on parapet walls, penetrations and structures	48%	-	None Detected		
71972485TBS_19	black					
F-23-69-b	Flashing on parapet walls, penetrations and structures	55%	-	4.5 %	Chrysotile	4.1% - 5.0%
71972485TBS_35	silver					
TSI-24-72	Thermal system insulation (on 2 units adjacent to structure 1)	59%	-	None Detected		
71972485TBS_20						
BUR-25-75	Built up roofing (Entire roof)	84%	-	None Detected		
71972485TBS_21						
F-26-78	Flashing on parapet walls and penetrations on main level (30 penetrations)	67%	-	1.0 %	Chrysotile	0.90% - 1.1%
71972485TBS_22						
F-27-81	Flashing on parapet walls and 18 penetrations on upper level	72%	-	None Detected		
71972485TBS_23						

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Project: PP0E00521- Roofs 8/9/21

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes			(Wt. %)		(Wt. %)
F-28-84	Flashing on upper level west parapet wall only	46%	-	27 %	Chrysotile	24% - 30.%
71972485TBS_24						
BUR-29-87	Built up roofing (Entire roof)	88%	-	None Detected		
71972485TBS_25						
F-30-90-a	Flashing on north parapet wall	89%	-	None Detected		
71972485TBS_26	flashing					
F-30-90-b	Flashing on north parapet wall	80.%	-	None Detected		
71972485TBS_32	felt					
F-30-90-c	Flashing on north parapet wall	72%	-	0.57 %	Chrysotile	0.51% - 0.62%
71972485TBS_31	membrane					
F-31-93-a	Flashing on remaining parapet walls and penetrations (25)	52%	-	None Detected		
71972485TBS_33	flashing 1 white					

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Date Received: 8/13/2021

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Project: PP0E00521- Roofs 8/9/21

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes			(Wt. %)		(Wt. %)
F-31-93-b	Flashing on remaining parapet walls and penetrations (25)	73%	-	0.27 %	Chrysotile	0.24% - 0.29%
71972485TBS_27	flashing 2 silver					
TSI-34-102-a	Thermal system insulation (on blower vent)	61%	-	0.77 %	Chrysotile	0.69% - 0.85%
71972485TBS_28	silver					
TSI-34-102-b	Thermal system insulation (on blower vent)	62%	-	31 %	Chrysotile	28% - 34%
71972485TBS_34	brown					
C-35-105	Flashing caulk (SW corner)	64%	-	None Detected		
71972485TBS_29						
C-36-108	Caulk on top of parapet walls	64%	-	11 %	Chrysotile	9.8% - 12%
71972485TBS_30						

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Daniel Schwartz (35)

Analyst

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407



Approved Signatory

(336) 292-3888



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www.sailab.com lab@sailab.com

71972485
Lab Use Only
Lab Order ID: 71972482
Client Code: _____

Company Contact Information

Company: GEL Engineering, LLC	Contact: Ron Sharpe/Sarah Browning
Address: 2040 Savage Road	Phone <input type="checkbox"/> : 843/769-7378
Charleston, SC 29407	Fax <input type="checkbox"/> : 843/769-7397
	Email <input checked="" type="checkbox"/> : ronald.sharpe@gel.com
	sarah.browning@gel.com

Billing/Invoice Information

Company:	90 Min. <input type="checkbox"/>	48 Hours <input type="checkbox"/>
Contact: Same	3 Hours <input type="checkbox"/>	72 Hours <input type="checkbox"/>
Address: AS	6 Hours <input type="checkbox"/>	96 Hours <input type="checkbox"/>
Above	12 Hours <input type="checkbox"/>	120 Hours <input checked="" type="checkbox"/>
	24 Hours <input type="checkbox"/>	144+ Hours <input type="checkbox"/>

Turn Around Times

Asbestos Test Types

PLM EPA 600/R-93/116 (PLM)	<input checked="" type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/> TWA (PTA) <input type="checkbox"/>	
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input checked="" type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>

PO Number: _____

Project Name/Number: PPOE00521 ~ Roofs (8/9/21)

* Run PLM+TEM simultaneously *

✓ = TEM

Warehouse 4

Sample ID #	Description/Location	Volume/Area	Comments
BUR-1-1	Built up roof membrane (Entire Roof)	115,000 SF	Analyze all layers
BUR-1-2			
✓ BUR-1-3			
CB-2-4	Cement Board Siding (Structure 3)	1600 SF	Analyze cement board only
CB-2-5			
CB-2-6			
C-3-7	Gray Caulk on aluminum siding	1 SF	Analyze caulk only
C-3-8	anchor points (Structure 2)		
✓ C-3-9			
F-4-10	Silver coated flashing on parapet	420 SF	Analyze all layers
✓ F-4-11	wall. (South Parapet wall)		
✓ F-4-12			

Total # of Samples 108

Relinquished by	Date/Time	Received by	Date/Time
<i>[Signature]</i>	8/12/21 @ 1800	<i>[Signature]</i>	8/13 10:30 AM

Accepted ☒

Rejected ☐

Page 1 of 4
A-P017 EXP: 2/4/2021



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71972485
 Lab Use Only
 Lab Order ID: 71972482
 Client Code: _____

*** Run PLM+TEM simultaneously ***

Sample ID #	Specific Location	Volume/Area	Comments
CB-5-13	Cement board 2 under BUR	24000 SF	Analyze cement board
CB-5-14	membrane	↓	only ↓
CB-5-15	↓	↓	↓
F-6-16	Flashing on penetrations, structures	~150 penetrations	Analyze all layers
✓ F-6-17	and parapet walls	5775 SF	↓
✓ F-6-18	↓	↓	↓
	WAREHOUSE 12 ↓		
BUR-7-19	Built up roof membrane (Entire Roof)	67,400 SF	Analyze all layers
BUR-7-20	↓	↓	↓
✓ BUR-7-21	↓	↓	↓
F-8-22	Flashing on 4 th parapet walls and	921 SF	↓
F-8-23	4 penetrations (caulk)	↓	↓
✓ F-8-24	↓	↓	↓
C-9-25	Caulk on parapet walls (On top)	921 LF	↓
C-9-26	↓	↓	↓
✓ C-9-27	↓	↓	↓
F-10-28	Flashing on parapet walls and	1025 SF	↓
✓ F-10-29	4 penetrations	↓	↓
✓ F-10-30	↓	↓	↓
C-11-31	Caulk on vents (12 Vents)	12 Vents	↓
C-11-32	↓	↓	↓
✓ C-11-33	↓	↓	↓
	WAREHOUSE 9		
BUR-12-34	Built up roof membrane (Entire Roof)	43,500 SF	Analyze all layers
✓ BUR-12-35	↓	↓	↓
✓ BUR-12-36	↓	1225 ↓	↓
F-13-37	Flashing on parapet walls and	1225 SF	↓
✓ F-13-38	penetrations	↓	↓
✓ F-13-39	↓	1225 ↓	↓
M-14-40	Flashing mastic on parapet walls	1225 LF	Analyze mastic
✓ M-14-41	↓	↓	only ↓
✓ M-14-42	↓	↓	↓
C-15-43	Caulk on flashing on parapet walls	1050 LF	Analyze caulk only
✓ C-15-44	↓	↓	↓
✓ C-15-45	↓	↓	↓
C-16-46	Caulk on vents (3 Vents only)	3 Vents	↓
C-16-47	↓	↓	↓
✓ C-16-48	↓	↓	↓



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* Run PLM + TEM simultaneously *

Sample ID #	Specific Location	Volume/Area	Comments
	WAREHOUSE 11		
BUR-17-49	Built up roofing (Entire Roof)	38,950 SF	Analyze all layers
BUR-17-50	↓	↓	↓
✓ BUR-17-51	↓	↓	↓
F-18-52	Flashing of parapet walls and penetrations	2080 SF	↓
✓ F-18-53	↓	↓	↓
✓ F-18-54	↓	↓	↓
C-19-55	Caulk on top of parapet wall	575 LF	Analyze caulk only
C-19-56	↓	↓	↓
✓ C-19-57	↓ WAREHOUSE 10	↓	↓
BUR-20-58	Built up roofing (Entire Roof)	33,50 SF	Analyze all layers
✓ BUR-20-59	↓	↓	↓
✓ BUR-20-60	↓	↓	↓
CB-21-61	Cement Board (Corrugated)	2450 SF	Analyze Cement Board only
CB-21-62	(Structures 1-3)	↓	↓
CB-21-63	↓	↓	↓
CB-22-64	Cement Board (Straight Panel)	2450 SF	↓
CB-22-65	(Structures 1 & 2)	↓	↓
CB-22-66	↓	↓	↓
F-23-67	Flashing on parapet walls, penetrations and structures	1680 SF	Analyze all layers
✓ F-23-68	↓	↓	↓
✓ F-23-69	↓	↓	↓
TST-24-70	Thermal System Insulation (on 2 units adjacent to structure 1)	8880 SF	↓
✓ TST-24-71	↓	(Units 81 + 115)	↓
✓ TST-24-72	↓	↓	↓
	WAREHOUSE 13		
BUR-25-73	Built up Roofing (Entire Roof)	8481056 SF	Analyze all layers
✓ BUR-25-74	↓	↓	↓
✓ BUR-25-75	↓	↓	↓
F-26-76	Flashing on parapet walls and penetrations on main level	1390 SF	↓
✓ F-26-77	↓	↓	↓
✓ F-26-78	(~30 penetrations)	↓	↓
F-27-79	Flashing on parapet walls and 18 penetrations on upper level	965 SF	↓
✓ F-27-80	↓	↓	↓
✓ F-27-81	↓	↓	↓
F-28-82	Flashing on upper level west parapet wall only	285 SF	↓
✓ F-28-83	↓	↓	↓
✓ F-28-84	↓	↓	↓



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71972482
Analysis ID: 71972482_PLM
Date Received: 8/13/2021
Date Reported: 8/20/2021

Project: PP0E00521- Roofs 8/9/21

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
BUR-1-1 - A	Built up roof membrane (Entire roof)	None Detected	10% Fiber Glass	90% Other	Black Fibrous Homogeneous
71972482PLM_1	built up roofing				Dissolved
BUR-1-1 - B	Built up roof membrane (Entire roof)	None Detected	98% Fiber Glass	2% Other	Yellow Fibrous Homogeneous
71972482PLM_109	insulation				Teased
BUR-1-2 - A	Built up roof membrane (Entire roof)	None Detected	10% Fiber Glass	90% Other	Black Fibrous Homogeneous
71972482PLM_2	built up roofing				Dissolved
BUR-1-2 - B	Built up roof membrane (Entire roof)	None Detected	98% Fiber Glass	2% Other	Yellow Fibrous Homogeneous
71972482PLM_110	insulation				Teased
BUR-1-3	Built up roof membrane (Entire roof)	Not Analyzed			
71972482PLM_3	built up roofing-TEM				
CB-2-4	Cement board siding (Structure 3)	5% Chrysotile		95% Other	Gray Non Fibrous Homogeneous
71972482PLM_4					Crushed
CB-2-5	Cement board siding (Structure 3)	15% Chrysotile		85% Other	Gray Fibrous Homogeneous
71972482PLM_5					Crushed
CB-2-6	Cement board siding (Structure 3)	15% Chrysotile		85% Other	Gray Fibrous Homogeneous
71972482PLM_6					Crushed

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Charmel Dozier (123)

Analyst

Approved Signatory



Bulk Asbestos Analysis

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EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
C-3-7	Gray caulk on aluminum siding anchor points (Structure 2)	None Detected		100% Other	Gray Non Fibrous Homogeneous
71972482PLM_7					Dissolved
C-3-8	Gray caulk on aluminum siding anchor points (Structure 2)	None Detected		100% Other	Gray Non Fibrous Homogeneous
71972482PLM_8					Dissolved
C-3-9	Gray caulk on aluminum siding anchor points (Structure 2)	Not Analyzed			
71972482PLM_9	TEM				
F-4-10	Silver coated flashing on parapet wall (South parapet wall)	None Detected		100% Other	Silver, Black Non Fibrous Homogeneous
71972482PLM_10					Dissolved
F-4-11	Silver coated flashing on parapet wall (South parapet wall)	None Detected		100% Other	Silver, Black Non Fibrous Homogeneous
71972482PLM_11					Dissolved
F-4-12	Silver coated flashing on parapet wall (South parapet wall)	Not Analyzed			
71972482PLM_12	TEM				
CB-5-13	Cement board 2 under BUR membrane	15% Chrysotile		85% Other	Gray Fibrous Homogeneous
71972482PLM_13					Crushed
CB-5-14	Cement board 2 under BUR membrane	15% Chrysotile		85% Other	Gray Fibrous Homogeneous
71972482PLM_14					Crushed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CB-5-15	Cement board 2 under BUR membrane	15% Chrysotile		85% Other	Gray Fibrous Homogeneous
71972482PLM_15					Crushed
F-6-16	Flashing on penetrations, structures, and parapet walls	None Detected	20% Fiber Glass	80% Other	Black Fibrous Homogeneous
71972482PLM_16					Dissolved
F-6-17	Flashing on penetrations, structures, and parapet walls	None Detected	20% Fiber Glass	80% Other	Black Fibrous Homogeneous
71972482PLM_17					Dissolved
F-6-18	Flashing on penetrations, structures, and parapet walls	Not Analyzed			
71972482PLM_18	TEM				
BUR-7-19 - A	Warehouse 12 Built up roof membrane (Entire roof)	None Detected	20% Fiber Glass	80% Other	Black Fibrous Homogeneous
71972482PLM_19	built up roofing				Dissolved
BUR-7-19 - B	Warehouse 12 Built up roof membrane (Entire roof)	None Detected	98% Fiber Glass	2% Other	Yellow Fibrous Homogeneous
71972482PLM_111	insulation				Teased
BUR-7-20 - A	Warehouse 12 Built up roof membrane (Entire roof)	None Detected	20% Fiber Glass	80% Other	Black Fibrous Homogeneous
71972482PLM_20	built up roofing				Dissolved
BUR-7-20 - B	Warehouse 12 Built up roof membrane (Entire roof)	None Detected	98% Fiber Glass	2% Other	Yellow Fibrous Homogeneous
71972482PLM_112	insulation				Teased

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
BUR-7-21	Warehouse 12 Built up roof membrane (Entire roof)	Not Analyzed			
71972482PLM_21	built up roofing-TEM				
F-8-22	Flashing on 4 HCS parapet walls (Caulk)	None Detected		100% Other	Tan Non Fibrous Homogeneous
71972482PLM_22					Dissolved
F-8-23	Flashing on 4 HCS parapet walls (Caulk)	None Detected		100% Other	Tan Non Fibrous Homogeneous
71972482PLM_23					Dissolved
F-8-24	Flashing on 4 HCS parapet walls (Caulk)	Not Analyzed			
71972482PLM_24	TEM				
C-9-25	Caulk on parapet walls (On top)	3% Chrysotile		97% Other	Beige Non Fibrous Homogeneous
71972482PLM_25					Dissolved
C-9-26	Caulk on parapet walls (On top)	3% Chrysotile		97% Other	Beige Non Fibrous Homogeneous
71972482PLM_26					Dissolved
C-9-27	Caulk on parapet walls (On top)	Not Analyzed			
71972482PLM_27					
F-10-28	Flashing on parapet walls and 4 penetrations	None Detected	10% Fiber Glass	90% Other	Black Fibrous Homogeneous
71972482PLM_28					Dissolved

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Project: PP0E00521- Roofs 8/9/21

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
F-10-29	Flashing on parapet walls and 4 penetrations	None Detected	10% Fiber Glass	90% Other	Black Fibrous Homogeneous
71972482PLM_29					Dissolved
F-10-30	Flashing on parapet walls and 4 penetrations	Not Analyzed			
71972482PLM_30	TEM				
C-11-31	Caulk on vents (12 vents)	None Detected		100% Other	Beige Non Fibrous Homogeneous
71972482PLM_31					Dissolved
C-11-32	Caulk on vents (12 vents)	None Detected		100% Other	Beige Non Fibrous Homogeneous
71972482PLM_32					Dissolved
C-11-33	Caulk on vents (12 vents)	Not Analyzed			
71972482PLM_33	TEM				
BUR-12-34 - A	Built up roof membrane (Entire roof)	None Detected	20% Fiber Glass	80% Other	Black Fibrous Homogeneous
71972482PLM_34	built up roofing				Dissolved
BUR-12-34 - B	Built up roof membrane (Entire roof)	None Detected	98% Fiber Glass	2% Other	Yellow Fibrous Homogeneous
71972482PLM_113	insulation				Teased
BUR-12-35 - A	Built up roof membrane (Entire roof)	None Detected	20% Fiber Glass	80% Other	Black Fibrous Homogeneous
71972482PLM_35	built up roofing				Dissolved

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Project: PP0E00521- Roofs 8/9/21

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
BUR-12-35 - B	Built up roof membrane (Entire roof)	None Detected	98% Fiber Glass	2% Other	Yellow Fibrous Homogeneous
71972482PLM_114	insulation				Teased
BUR-12-36 - A	Built up roof membrane (Entire roof)	Not Analyzed			
71972482PLM_36	built up roofing-TEM				
BUR-12-36 - B	Built up roof membrane (Entire roof)	None Detected	98% Fiber Glass	2% Other	Yellow Fibrous Homogeneous
71972482PLM_115	insulation				Teased
F-13-37	Flashing on parapet walls and penetrations	None Detected	20% Synthetic Fibers	80% Other	Black Fibrous Homogeneous
71972482PLM_37					Dissolved
F-13-38	Flashing on parapet walls and penetrations	None Detected	20% Synthetic Fibers	80% Other	Black Fibrous Homogeneous
71972482PLM_38					Dissolved
F-13-39	Flashing on parapet walls and penetrations	Not Analyzed			
71972482PLM_39	TEM				
M-14-40	Flashing mastic on parapet walls	15% Chrysotile		85% Other	Black Fibrous Homogeneous
71972482PLM_40					Dissolved
M-14-41	Flashing mastic on parapet walls	15% Chrysotile		85% Other	Black Fibrous Homogeneous
71972482PLM_41					Dissolved

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Charmel Dozier (123)

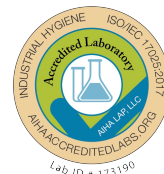
Analyst

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
M-14-42	Flashing mastic on parapet walls	Not Analyzed			
71972482PLM_42					
C-15-43	Caulk on flashing on parapet walls	None Detected		100% Other	Beige Non Fibrous Homogeneous
71972482PLM_43					Dissolved
C-15-44	Caulk on flashing on parapet walls	None Detected		100% Other	Beige Non Fibrous Homogeneous
71972482PLM_44					Dissolved
C-15-45	Caulk on flashing on parapet walls	Not Analyzed			
71972482PLM_45	TEM				
C-16-46	Caulk on vents (3 vents only)	None Detected		100% Other	Beige Non Fibrous Homogeneous
71972482PLM_46					Dissolved
C-16-47	Caulk on vents (3 vents only)	None Detected		100% Other	Beige Non Fibrous Homogeneous
71972482PLM_47					Dissolved
C-16-48	Caulk on vents (3 vents only)	Not Analyzed			
71972482PLM_48	TEM				
BUR-17-49 - A	Built up roofing (Entire roof)	None Detected	20% Fiber Glass	80% Other	Black Fibrous Homogeneous
71972482PLM_49	built up roofing				Dissolved

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Charmel Dozier (123)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Ron Sharpe
Sarah Browning

Lab Order ID: 71972482
Analysis ID: 71972482_PLM
Date Received: 8/13/2021
Date Reported: 8/20/2021

Project: PP0E00521- Roofs 8/9/21

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
BUR-17-49 - B	Built up roofing (Entire roof)	None Detected	95% Cellulose	5% Other	Brown Fibrous Homogeneous
71972482PLM_116	insulation				Teased
BUR-17-50 - A	Built up roofing (Entire roof)	None Detected	10% Fiber Glass	90% Other	Black Fibrous Homogeneous
71972482PLM_50	built up roofing				Dissolved
BUR-17-50 - B	Built up roofing (Entire roof)	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71972482PLM_117	insulation				Dissolved
BUR-17-51	Built up roofing (Entire roof)	Not Analyzed			
71972482PLM_51	built up roofing-TEM				
F-18-52	Flahing of parapet walls and penetrations	None Detected	10% Fiber Glass 10% Cellulose	80% Other	Black Fibrous Homogeneous
71972482PLM_52					Dissolved
F-18-53	Flahing of parapet walls and penetrations	None Detected	10% Fiber Glass 10% Cellulose	80% Other	Black Fibrous Homogeneous
71972482PLM_53					Dissolved
F-18-54	Flahing of parapet walls and penetrations	Not Analyzed			
71972482PLM_54	TEM				
C-19-55	Caulk on top of parapet all	5% Chrysotile		95% Other	Beige Non Fibrous Homogeneous
71972482PLM_55					Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
C-19-56	Caulk on top of parapet all	5% Chrysotile		95% Other	Beige Non Fibrous Homogeneous
71972482PLM_56					Dissolved
C-19-57	Caulk on top of parapet all	Not Analyzed			
71972482PLM_57					
BUR-20-58 - A	Built up roofing (Entire roof)	None Detected	10% Fiber Glass	90% Other	Black Fibrous Homogeneous
71972482PLM_58	built up roofing				Dissolved
BUR-20-58 - B	Built up roofing (Entire roof)	None Detected	98% Fiber Glass	2% Other	Yellow Fibrous Homogeneous
71972482PLM_118	insulation				Teased
BUR-20-59 - A	Built up roofing (Entire roof)	None Detected	10% Fiber Glass	90% Other	Black Fibrous Homogeneous
71972482PLM_59	built up roofing				Dissolved
BUR-20-59 - B	Built up roofing (Entire roof)	None Detected	98% Fiber Glass	2% Other	Yellow Fibrous Homogeneous
71972482PLM_119	insulation				Teased
BUR-20-60	Built up roofing (Entire roof)	Not Analyzed			
71972482PLM_60	TEM				
CB-21-61	Cement board (Corrugated) (Structures 1-3)	15% Chrysotile		85% Other	Gray Fibrous Homogeneous
71972482PLM_61					Crushed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CB-21-62	Cement board (Corrugated) (Structures 1-3)	15% Chrysotile		85% Other	Gray Fibrous Homogeneous
71972482PLM_62					Crushed
CB-21-63	Cement board (Corrugated) (Structures 1-3)	15% Chrysotile		85% Other	Gray Fibrous Homogeneous
71972482PLM_63					Crushed
CB-22-64	Cement board (Straight panel) (Structures 1 & 2)	15% Chrysotile		85% Other	Gray Fibrous Homogeneous
71972482PLM_64					Crushed
CB-22-65	Cement board (Straight panel) (Structures 1 & 2)	15% Chrysotile		85% Other	Gray Fibrous Homogeneous
71972482PLM_65					Crushed
CB-22-66	Cement board (Straight panel) (Structures 1 & 2)	15% Chrysotile		85% Other	Gray Fibrous Homogeneous
71972482PLM_66					Crushed
F-23-67	Flashing on parapet walls, penetrations and structures	15% Chrysotile	5% Fiber Glass	80% Other	Black Fibrous Homogeneous
71972482PLM_67					Dissolved
F-23-68	Flashing on parapet walls, penetrations and structures	15% Chrysotile	5% Fiber Glass	80% Other	Black Fibrous Homogeneous
71972482PLM_68					Dissolved
F-23-69	Flashing on parapet walls, penetrations and structures	Not Analyzed			
71972482PLM_69					

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Analysis ID: 71972482_PLM
Date Received: 8/13/2021
Date Reported: 8/20/2021

Project: PP0E00521- Roofs 8/9/21

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TSI-24-70	Thermal system insulation (on 2 units adjacent to structure 1)	None Detected	20% Wollastonite	80% Other	Black Fibrous Homogeneous
71972482PLM_70					Dissolved
TSI-24-71	Thermal system insulation (on 2 units adjacent to structure 1)	None Detected	20% Wollastonite	80% Other	Black Fibrous Homogeneous
71972482PLM_71					Dissolved
TSI-24-72	Thermal system insulation (on 2 units adjacent to structure 1)	Not Analyzed			
71972482PLM_72	TEM				
BUR-25-73 - A	Built up roofing (Entire roof)	None Detected	10% Fiber Glass	90% Other	Black Fibrous Homogeneous
71972482PLM_73	built up roofing				Dissolved
BUR-25-73 - B	Built up roofing (Entire roof)	None Detected	98% Fiber Glass	2% Other	Yellow Fibrous Homogeneous
71972482PLM_120	insulation				Teased
BUR-25-74 - A	Built up roofing (Entire roof)	None Detected	10% Fiber Glass	90% Other	Black Fibrous Homogeneous
71972482PLM_74	built up roofing				Dissolved
BUR-25-74 - B	Built up roofing (Entire roof)	None Detected	98% Fiber Glass	2% Other	Yellow Fibrous Homogeneous
71972482PLM_121	insulation				Teased
BUR-25-75	Built up roofing (Entire roof)	Not Analyzed			
71972482PLM_75	TEM				

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Project: PP0E00521- Roofs 8/9/21

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
F-26-76	Flashing on parapet walls and penetrations on main level (30 penetrations)	10% Chrysotile	10% Synthetic Fibers 10% Fiber Glass	70% Other	Black Fibrous Homogeneous
71972482PLM_76					Dissolved
F-26-77	Flashing on parapet walls and penetrations on main level (30 penetrations)	10% Chrysotile	15% Synthetic Fibers	75% Other	Black Fibrous Homogeneous
71972482PLM_77					Dissolved
F-26-78	Flashing on parapet walls and penetrations on main level (30 penetrations)	Not Analyzed			
71972482PLM_78					
F-27-79	Flashing on parapet walls and 18 penetrations on upper level	None Detected	15% Fiber Glass	85% Other	Silver, Black Fibrous Homogeneous
71972482PLM_79					Dissolved
F-27-80	Flashing on parapet walls and 18 penetrations on upper level	None Detected	15% Fiber Glass	85% Other	Silver, Black Fibrous Homogeneous
71972482PLM_80					Dissolved
F-27-81	Flashing on parapet walls and 18 penetrations on upper level	Not Analyzed			
71972482PLM_81	TEM				
F-28-82	Flashing on upper level west parapet wall only	10% Chrysotile	5% Fiber Glass	85% Other	Black Fibrous Homogeneous
71972482PLM_82					Dissolved
F-28-83	Flashing on upper level west parapet wall only	10% Chrysotile	5% Fiber Glass	85% Other	Black Fibrous Homogeneous
71972482PLM_83					Dissolved

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Project: PP0E00521- Roofs 8/9/21

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
F-28-84	Flashing on upper level west parapet wall only	Not Analyzed			
71972482PLM_84					
BUR-29-85 - A	Built up roofing (Entire roof)	None Detected	10% Fiber Glass	90% Other	Black Fibrous Homogeneous
71972482PLM_85	built up roofing				Dissolved
BUR-29-85 - B	Built up roofing (Entire roof)	None Detected	98% Fiber Glass	2% Other	Yellow Fibrous Homogeneous
71972482PLM_122	insulation				Teased
BUR-29-86 - A	Built up roofing (Entire roof)	None Detected	10% Fiber Glass	90% Other	Black Fibrous Homogeneous
71972482PLM_86	built up roofing				Dissolved
BUR-29-86 - B	Built up roofing (Entire roof)	None Detected	98% Fiber Glass	2% Other	Yellow Fibrous Homogeneous
71972482PLM_123	insulation				Dissolved
BUR-29-87	Built up roofing (Entire roof)	Not Analyzed			
71972482PLM_87	TEM				
F-30-88	Flashing on north parapet wall	None Detected	10% Fiber Glass	90% Other	Silver, Black Fibrous Homogeneous
71972482PLM_88					Dissolved
F-30-89	Flashing on north parapet wall	None Detected	10% Fiber Glass	90% Other	Silver, Black Fibrous Homogeneous
71972482PLM_89					Dissolved

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Charleston, SC 29407

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Sarah Browning

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Analysis ID: 71972482_PLM
Date Received: 8/13/2021
Date Reported: 8/20/2021

Project: PP0E00521- Roofs 8/9/21

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
F-30-90	Flashing on north parapet wall	Not Analyzed			
71972482PLM_90	TEM				
F-31-91	Flashing on remaining parapet walls and penetrations (25)	None Detected	15% Fiber Glass	85% Other	Black Fibrous Homogeneous
71972482PLM_91					Dissolved
F-31-92	Flashing on remaining parapet walls and penetrations (25)	None Detected	15% Fiber Glass	85% Other	Black Fibrous Homogeneous
71972482PLM_92					Dissolved
F-31-93	Flashing on remaining parapet walls and penetrations (25)	Not Analyzed			
71972482PLM_93	TEM				
CB-32-94	Cement board from structure 1 (Straight)	20% Chrysotile		80% Other	Gray Fibrous Homogeneous
71972482PLM_94					Crushed
CB-32-95	Cement board from structure 1 (Straight)	20% Chrysotile		80% Other	Gray Fibrous Homogeneous
71972482PLM_95					Crushed
CB-32-96	Cement board from structure 1 (Straight)	20% Chrysotile		80% Other	Gray Fibrous Homogeneous
71972482PLM_96					Crushed
CB-33-97	Cement board from structure 2 (Corrugated) 2 sides	20% Chrysotile		80% Other	Gray Fibrous Homogeneous
71972482PLM_97					Crushed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CB-33-98	Cement board from structure 2 (Corrugated) 2 sides	15% Chrysotile		85% Other	Gray Fibrous Homogeneous
71972482PLM_98					Crushed
CB-33-99	Cement board from structure 2 (Corrugated) 2 sides	15% Chrysotile		85% Other	Gray Fibrous Homogeneous
71972482PLM_99					Crushed
TSI-34-100	Thermal system insulation (on blower vent)	15% Chrysotile	5% Fiber Glass	80% Other	Black Fibrous Homogeneous
71972482PLM_100					Dissolved
TSI-34-101	Thermal system insulation (on blower vent)	15% Chrysotile	5% Fiber Glass	80% Other	Black Fibrous Homogeneous
71972482PLM_101					Dissolved
TSI-34-102	Thermal system insulation (on blower vent)	Not Analyzed			
71972482PLM_102					
C-35-103	Flashing caulk (SW corner)	None Detected		100% Other	Beige Non Fibrous Homogeneous
71972482PLM_103					Dissolved
C-35-104	Flashing caulk (SW corner)	None Detected		100% Other	Beige Non Fibrous Homogeneous
71972482PLM_104					Dissolved
C-35-105	Flashing caulk (SW corner)	Not Analyzed			
71972482PLM_105	TEM				

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
C-36-106	Caulk on top of parapet walls	3% Chrysotile		97% Other	Beige Non Fibrous Homogeneous
71972482PLM_106					Dissolved
C-36-107	Caulk on top of parapet walls	3% Chrysotile		97% Other	Beige Non Fibrous Homogeneous
71972482PLM_107					Dissolved
C-36-108	Caulk on top of parapet walls	Not Analyzed			
71972482PLM_108					

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www.sailab.com lab@sailab.com

Lab Use Only
Lab Order ID: 71972482
Client Code: _____

Company Contact Information	
Company: <u>GEL Engineering, LLC</u>	Contact: <u>Ron Sharpe/Sarah Browning</u>
Address: <u>2040 Savage Road</u>	Phone <input type="checkbox"/> : <u>843/769-7378</u>
<u>Charleston, SC 29407</u>	Fax <input type="checkbox"/> : <u>843/769-7397</u>
	Email <input checked="" type="checkbox"/> : <u>ronald.sharpe@gel.com</u>
	<u>sarah.browning@gel.com</u>
Billing/Invoice Information	
Company:	90 Min. <input type="checkbox"/> 48 Hours <input type="checkbox"/>
Contact: <u>Same</u>	3 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>
Address: <u>AS</u>	6 Hours <input type="checkbox"/> 96 Hours <input type="checkbox"/>
<u>Above</u>	12 Hours <input type="checkbox"/> 120 Hours <input checked="" type="checkbox"/>
	24 Hours <input type="checkbox"/> 144* Hours <input type="checkbox"/>

Asbestos Test Types	
PLM EPA 600/R-93/116 (PLM)	<input checked="" type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/> TWA (PTA) <input type="checkbox"/>	
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input checked="" type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>

PO Number:	
Project Name/Number:	<u>PPOE00521 ~ Roofs (8/9/21)</u>

* Run PLM+TEM simultaneously *

✓ = TEM

Warehouse 4

Sample ID #	Description/Location	Volume/Area	Comments
BUR-1-1	Built up roof membrane (Entire Roof)	115,000 SF	Analyze all layers
BUR-1-2			
BUR-1-3			
CB-2-4	Cement Board Siding (Structure 3)	1600 SF	Analyze cement board only
CB-2-5			
CB-2-6			
C-3-7	Gray Caulk on aluminum siding	1 SF	Analyze caulk only
C-3-8	anchor points (Structure 2)		
C-3-9			
F-4-10	Silver coated flashing on parapet	420 SF	Analyze all layers
F-4-11	wall. (South Parapet wall)		
F-4-12			

Total # of Samples 108

Relinquished by	Date/Time	Received by	Date/Time
<u>[Signature]</u>	<u>8/12/21 @ 1800</u>	<u>[Signature]</u>	<u>8/13</u>
			<u>10:30am</u>

Accepted ☒
Rejected ☐

Page 1 of 4
A-F-017 EXP: 2/4/2021



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Lab Use Only
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 Client Code: _____

* Run PLM+TEM simultaneously *

Sample ID #	Specific Location	Volume/Area	Comments
CB-5-13	Cement board 2 under BUR	24000 SF	Analyze cement board
CB-5-14	membrane	↓	only ↓
CB-5-15	↓	↓	↓
F-6-16	Flashing on penetrations, structures	~150 penetrations	Analyze all layers
✓ F-6-17	and parapet walls	5775 SF	↓
✓ F-6-18	↓	↓	↓
	WAREHOUSE 12 ↓		
BUR-7-19	Built up roof membrane (Entire Roof)	67,400 SF	Analyze all layers
BUR-7-20	↓	↓	↓
✓ BUR-7-21	↓	↓	↓
F-8-22	Flashing on ¹¹⁶⁵ 47 parapet walls and	921 SF	↓
F-8-23	4 penetrations (caulk)	↓	↓
✓ F-8-24	↓	↓	↓
C-9-25	Caulk on parapet walls (On top)	721 LF	↓
C-9-26	↓	↓	↓
✓ C-9-27	↓	↓	↓
F-10-28	Flashing on parapet walls and	1025 SF	↓
✓ F-10-29	4 penetrations	↓	↓
✓ F-10-30	↓	↓	↓
C-11-31	Caulk on vents (12 Vents)	12 Vents	↓
C-11-32	↓	↓	↓
✓ C-11-33	↓	↓	↓
	WAREHOUSE 9		
BUR-12-34	→ Built up roof membrane (Entire Roof)	43,500 SF	Analyze all layers
✓ BUR-12-35	↓	↓	↓
✓ BUR-12-36	↓	1225 ↓	↓
F-13-37	Flashing on parapet walls and	15405 SF	↓
✓ F-13-38	penetrations	↓	↓
✓ F-13-39	↓	1225 ↓	↓
M-14-40	Flashing mastic on parapet walls	15405 LF	Analyze mastic
✓ M-14-41	↓	↓	only ↓
✓ M-14-42	↓	↓	↓
C-15-43	Caulk on flashing on parapet walls	1050 LF	Analyze caulk only
✓ C-15-44	↓	↓	↓
✓ C-15-45	↓	↓	↓
C-16-46	Caulk on vents (3 Vents only)	3 Vents	↓
✓ C-16-47	↓	↓	↓
✓ C-16-48	↓	↓	↓

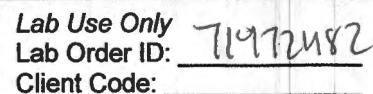


Scientific Analytical Institute
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Lab Use Only
 Lab Order ID: 71972482
 Client Code: _____

* Run PLM + TEM simultaneously *

Sample ID #	Specific Location	Volume/Area	Comments
	WAREHOUSE 11		
BUR-17-49	Built up roofing (Entire Roof)	38,950 SF	Analyze all layers
BUR-17-50	↓	↓	↓
✓ BUR-17-51	↓	↓	↓
F-18-52	Flashing of parapet walls and	2080 SF	↓
✓ F-18-53	penetrations	↓	↓
✓ F-18-54	↓	↓	↓
C-19-55	Caulk on top of parapet wall	575 LF	Analyze caulk only
C-19-56	↓	↓	↓
✓ C-19-57	↓ WAREHOUSE 10 ↓	↓	↓
BUR-20-58	Built up roofing (Entire Roof)	33,150 SF	Analyze all layers
✓ BUR-20-59	↓	↓	↓
✓ BUR-20-60	↓	↓	↓
CB-21-61	Cement Board (Corrugated)	2450 SF	Analyze Cement
CB-21-62	(Structures 1-3)	↓	Board only
CB-21-63	↓	↓	↓
CB-22-64	Cement Board (Straight Panel)	2450 SF	↓
CB-22-65	(Structures 1 & 2)	↓	↓
CB-22-66	↓	↓	↓
F-23-67	Flashing on parapet walls, ^{so} penetrations	1680 SF	Analyze all layers
✓ F-23-68	and Structures	↓	↓
✓ F-23-69	↓	↓	↓
TST-24-70	Thermal System Insulation (On 2 units	8080 SF	↓
✓ TST-24-71	adjacent to structure 1)	(Units 81 & 115)	↓
✓ TST-24-72	↓	↓	↓
	WAREHOUSE 13		
BUR-25-73	Built up Roofing (Entire Roof)	84 81056 SF	Analyze all layers
✓ BUR-25-74	↓	↓	↓
✓ BUR-25-75	↓	↓	↓
F-26-76	Flashing on parapet walls and	1390 SF	↓
F-26-77	penetrations on main level	↓	↓
✓ F-26-78	(~30 penetrations)	↓	↓
F-27-79	Flashing on parapet walls and	965 SF	↓
F-27-80	18 penetrations on upper level	↓	↓
✓ F-27-81	↓	↓	↓
F-28-82	Flashing on upper level west	285 SF	↓
✓ F-28-83	parapet wall only	↓	↓
✓ F-28-84	↓	↓	↓



A-F-022 EXP: 2/4/2021

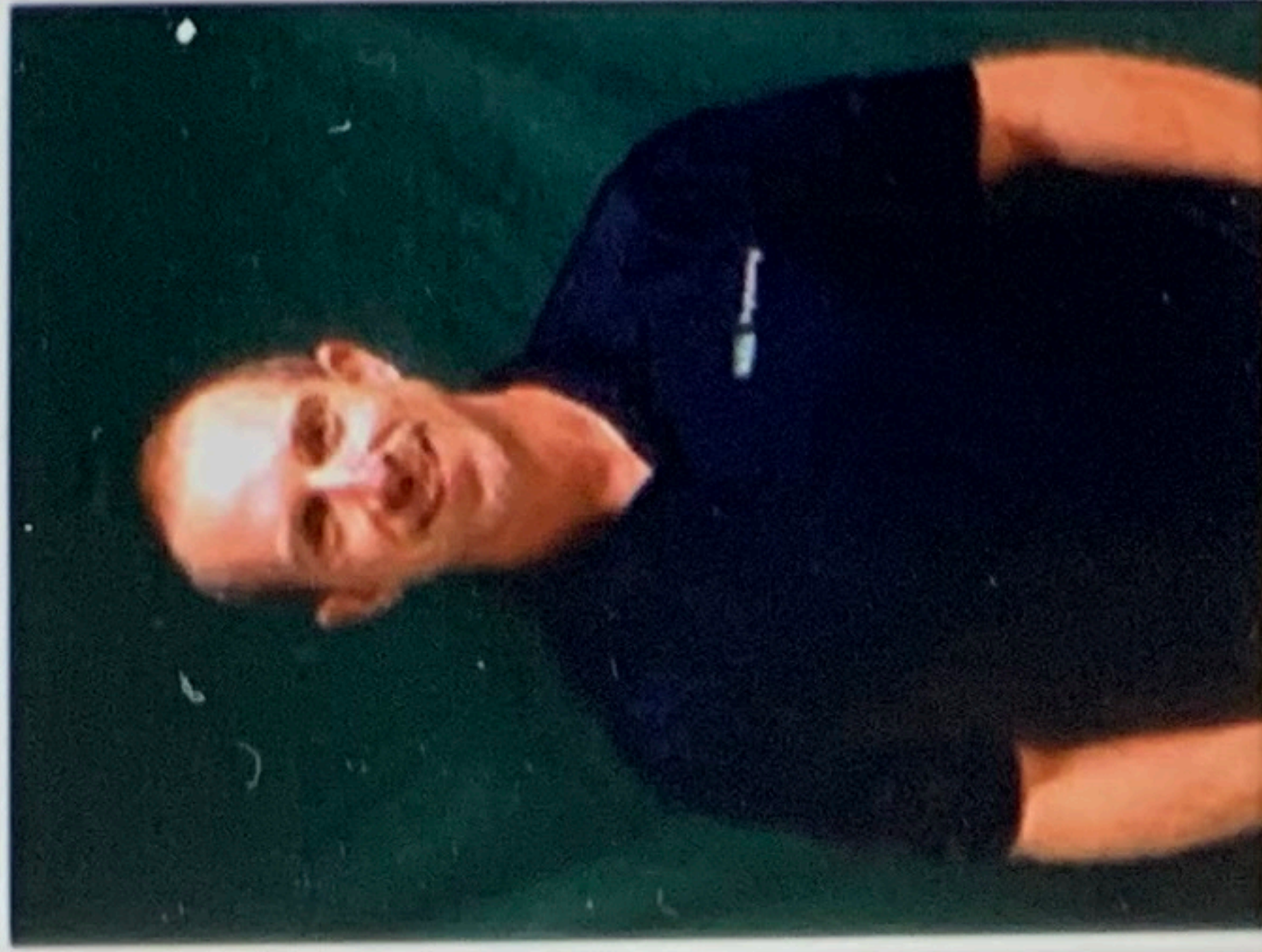
APPENDIX 4.5

ASBESTOS INSPECTOR'S LICENSE AND TRAINING CERTIFICATE

SCDHEC ISSUED

Asbestos ID Card

Derek Anderson



		Expiration Date:
AIRSAMPLER	AS-00332	03/04/21
CONSULTBI	BI-01044	11/16/21
CONSULTPD	PD-00179	11/19/21

Greenville Technical College

PO Box 5616, 738 S. Pleasantburg Drive, Greenville, South Carolina 29606-5616 (864) 250-8800

DEREK R. ANDERSON

2040 Savage Rd, Charleston, SC 29407

9402

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

Asbestos Inspector Refresher Training Course

Greenville, SC

201 - EVT502 - 135

Certificate Number

November 17, 2020

Course Date(s)

November 17, 2020

Examination Date

Attended and Satisfactorily Completed Course
Exam with a Passing Score of 70% or Better



**Greenville
Technical College**
Economic Development
and Corporate Training

Jim Tucker
Jim Tucker, Principal Instructor

Joy N. Fitch
Joy N. Fitch, Training Manager

November 17, 2021

Expiration Date