

## Laboratory Report

K & L Gates  
 17 North Second Street  
 18th Floor  
 Harrisburg, PA 17101  
 United States  
 Attention: Mr. David Raphael  
 Telephone: 717-231-4504

Report Date 05/29/2019  
 Sample Receipt Date 04/24/2019  
 RJ Lee Group Job No. LLH901997-5  
 Authorization/P.O. No.  
 Client Job No./Name

Analysis: Asbestos in Bulk Samples by Point Count  
 Method: EPA/600/R-93/116

RJLG Sample Number	Client Sample Number	Homogeneous	# of Layers	Asbestos Detected(%)	Non-Asbestos Fibers(%)	Non-Fibrous Materials(%)	Matrix Material	Analyst - Analysis Date
3158163.HPL	1	Yes	1	ND	<0.1 OF	100.00	Q, CA, AM, OP, M	WT-05/29/2019
Description:		Gray Crushed Rock. 1000 Point Count. Detection Limit=0.1%.						
Weight Loss:		0.0%						
3158164.HPL	2	Yes	1	ND	<0.1 OF	100.00	Q, CA, AM, OP, M	WT-05/29/2019
Description:		Gray Crushed Rock. 1000 Point Count. Detection Limit=0.1%.						
Weight Loss:		0.0%						
3158165.HPL	3	Yes	1	<0.1 TR		100.00	Q, CA, AM, OP, M	WT-05/29/2019
Description:		Gray Crushed Rock. 1000 Point Count. Detection Limit=0.1%.						
Weight Loss:		0.0%						

Client Job No./Name:

RJ Lee Group Job No:

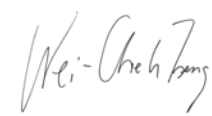
LLH901997-5

RJLG Sample Number	Client Sample Number	Homogeneous	# of Layers	Asbestos Detected(%)	Non-Asbestos Fibers(%)	Non-Fibrous Materials(%)	Matrix Material	Analyst - Analysis Date
3158166.HPL	4	Yes	1	ND	0.70 OF	99.30	CA, AM, OP, M	JM-05/29/2019
Description:		Gray Crushed Rock 1000 points counted. Detection limit of 0.1%.						
Weight Loss:		0.0%						
3158167.HPL	5	Yes	1	<0.1 AC	<0.1 OF	100.00	CA, AM, OP, M	JM-05/29/2019
Description:		Gray Crushed Rock 1000 points counted. Detection limit of 0.1%.						
Weight Loss:		0.0%						
3158168.HPL	6	Yes	1	ND	0.10 OF	99.90	CA, AM, OP, M	JM-05/29/2019
Description:		Gray Crushed Rock 1000 points counted. Detection limit of 0.1%.						
Weight Loss:		0.0%						
3158169.HPL	7	Yes	1	ND	<0.1 OF	100.00	AM, OP, M	WT-05/29/2019
Description:		Gray Crushed Rock. 1000 Point Count. Detection Limit=0.1%.						
Weight Loss:		0.0%						
3158170.HPL	8	Yes	1	<0.1 AC <0.1 TR	<0.1 OF	100.00	Q, AM, OP, M	WT-05/29/2019
Description:		Gray Crushed Rock. 1000 Point Count. Detection Limit=0.1%.						
Weight Loss:		0.0%						

Client Job No./Name:

RJ Lee Group Job No: LLH901997-5

RJLG Sample Number	Client Sample Number	Homogeneous	# of Layers	Asbestos Detected(%)	Non-Asbestos Fibers(%)	Non-Fibrous Materials(%)	Matrix Material	Analyst - Analysis Date
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Authorized Signature: \_\_\_\_\_

Wei Tseng, Microscopist

**ASBESTOS**

- AM = Amosite
- AC = Actinolite
- AN = Anthophyllite
- CH = Chrysotile
- CR = Crocidolite
- TR = Tremolite

**NON-ASBESTOS**

- CE = Cellulose
- MW = Mineral Wool
- FG = Fibrous Glass
- SF = Synthetic Fibers
- H = Hair
- W = Wollastonite
- OF = Other Fibers

**NON-FIBROUS MATERIALS**

- AM = Amphibole
- B = Binder
- CA = Carbonates
- CL = Clay
- F = Feldspar
- G = Gypsum
- HY = Hydromagnesite
- M = Miscellaneous
- MI = Mica
- OP = Opaque
- OR = Organic
- P = Perlite
- Q = Quartz
- T = Tar
- V = Vermiculite

**DISCLAIMER NOTES**

- "ND" indicates no asbestos was detected; the method detection limit is 0.1%.
- "Trace" or "<" indicates asbestos was identified in the sample, but the concentration is less than the method quantitation limit. PLM coefficients of variance range from approximately 1.8 at the quantitation limit of 0.1% to 0.32 at high fiber concentrations.
- Samples are archived for three months following analysis and are then properly discarded.
- These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.
- This test report relates to the items tested.
- This report is not valid unless it bears the name of a NVLAP Lab Code 101208-0 approved signatory.
- Any reproduction of this document must be in full in order for the report to be valid.
- This report may not be used to claim product endorsement by NVLAP Lab Code 101208-0, any agency of the U.S. Government or any other laboratory accrediting agency.
- Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar nonfriable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as "non-asbestos-containing."
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratorys results are limited to the reported values.
- ((100-A)/B)\*C = Asbestos Detected (%), where A=weight loss, B=total # of points counted, and C=total # of asbestos fibers counted.

## Laboratory Report

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 Attention: Mr. David Raphael  
 Telephone: 717-231-4504

Report Date 05/29/2019  
 Sample Receipt Date 04/24/2019  
 RJ Lee Group Job No. LLH901997-6  
 Authorization/P.O. No.  
 Client Job No./Name

Analysis: Asbestos in Bulk Samples by Point Count  
 Method: EPA/600/R-93/116

RJLG Sample Number	Client Sample Number	Homogeneous	# of Layers	Asbestos Detected(%)	Non-Asbestos Fibers(%)	Non-Fibrous Materials(%)	Matrix Material	Analyst - Analysis Date
3158157.HPL	11	Yes	1	ND		100.00	Q, CA, AM, OP, M	DF-05/29/2019
Description:		Gray Crushed Rock 1000 Point Count. Detection Limit=0.1%						
Weight Loss:		0.0%						
3158158.HPL	12	Yes	1	ND	1.00 OF	99.00	Q, CA, AM, OP	DF-05/29/2019
Description:		Gray Crushed Rock 1000 Point Count. Detection Limit= 0.1%						
Weight Loss:		0.0%						
3158159.HPL	13	Yes	1	ND		100.00	Q, CA, M	DF-05/29/2019
Description:		Gray Crushed Rock 1000 Point Count. Detection Limit - 0.1%						
Weight Loss:		0.0%						

Client Job No./Name:

RJ Lee Group Job No:


LLH901997-6

RJLG Sample Number	Client Sample Number	Homogeneous	# of Layers	Asbestos Detected(%)	Non-Asbestos Fibers(%)	Non-Fibrous Materials(%)	Matrix Material	Analyst - Analysis Date
3158160.HPL	14	Yes	1	ND		100.00	Q, CA, AM, OP, M	DF-05/29/2019
Description:		Gray Crushed Rock 1000 Point Count. Detection Limit =0.1%						
Weight Loss:		0.0%						
3158161.HPL	15	Yes	1	ND	0.40 OF	99.60	Q, CA, OP, M	DF-05/29/2019
Description:		Gray Crushed Rock 1000 Point Count. Detection Limit=0.1%						
Weight Loss:		0.0%						
3158162.HPL	16	Yes	1	ND		100.00	Q, CA, AM, OP, M	DF-05/29/2019
Description:		Gray Crushed Rock 1000 Point Count. Detection Limit=0.1%						
Weight Loss:		0.0%						
3158171.HPL	9	Yes	1	ND		100.00	Q, CA, AM, OP, M	DF-05/29/2019
Description:		Gray Crushed Rock 1000 Point Count. Detection Limit=0.1%						
Weight Loss:		0.0%						
3158172.HPL	10	Yes	1	ND		100.00	Q, CA, OP, M	DF-05/29/2019
Description:		Gray Crushed Rock 1000 Point Count. Detection Limit=0.1%						
Weight Loss:		0.0%						

Client Job No./Name:

RJ Lee Group Job No: LLH901997-6

RJLG Sample Number	Client Sample Number	Homogeneous	# of Layers	Asbestos Detected(%)	Non-Asbestos Fibers(%)	Non-Fibrous Materials(%)	Matrix Material	Analyst - Analysis Date
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Authorized Signature: 

Donald Fike

**ASBESTOS**

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- G = Gypsum
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- M = Miscellaneous
- MI = Mica
- OP = Opaque
- OR = Organic
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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratorys results are limited to the reported values.
- ((100-A)/B)\*C = Asbestos Detected (%), where A=weight loss, B=total # of points counted, and C=total # of asbestos fibers counted.

**Polarized Light Microscopy Point Count Worksheet for Asbestos Analysis of Bulk Samples**

Date: 05/15/19 Analyst: WT Scope: 023-OPF

Sample Description: Gray Crushed Rock -

RJ Lee Group  
 Sample Number: 3158163  
 RJ Lee Group  
 Project Number: LLH901997  
 Analysis Method:

Comments /  
 # of Layers: 1000 Point Count - Detection Limit = 0.1%

Stereo-scope		Asbestos Type		Color/Pleochroism		Indices of Refraction		Birefringence	Sign of Elongation	Extinction Angle	QC Analyst:
%	%		Morphology		⊥		⊥				NFM% <u>100%</u>
			W C S					L M	P N		<input checked="" type="checkbox"/> Quartz
			W C S					L M	P N		<input type="checkbox"/> Carbonates
			W C S					L M	P N		<input type="checkbox"/> Vermiculite
											<input type="checkbox"/> Tar
											<input type="checkbox"/> Binder
											<input checked="" type="checkbox"/> Opaques
											<input type="checkbox"/> Perlite
											<input checked="" type="checkbox"/> Amphibole
											<input type="checkbox"/> Gypsum
											<input type="checkbox"/> Talc
											<input type="checkbox"/> Feldspar
											<input type="checkbox"/> Mica
											<input type="checkbox"/> Clay
											<input type="checkbox"/> Organic Part.
											<input type="checkbox"/> Diatoms
											<input checked="" type="checkbox"/> Misc Particles
											<input type="checkbox"/> Foam
											<input type="checkbox"/> Foil

Type	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Total
ASB	0	0	0	0	0	0	0	0	0
CLE	0	0	0	0	0	0	0	0	0
NAS	100	100	100	100	100	100	100	100	800
Total	100	100	100	100	100	100	100	100	800

Detection Limit =  $\frac{1}{1000} \times 100\% = 0.1\%$

Effective Date: March 2019  
Form F OPT.001

**PLM Point Count Additional Slides Worksheet**

Date: 05/15/19 Analyst: WT Microscope: 023-0PT

RJ Lee Group Sample Number: 3158163 RJ Lee Group Project Number: LLH901997

Type	Slide <u>9</u>	Slide <u>10</u>	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
ASB	0	0							0
CLE	0	0							0
NAS	100	100							200
Total	100	100							200

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
Total									

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
Total									



**Polarized Light Microscopy Point Count Worksheet for Asbestos Analysis of Bulk Samples**

Date: 05/16/19 Analyst: WT Scope: 023-0PT

Sample Description: Gray Crushed Rock.

RJ Lee Group  
 Sample Number: 3158164  
 RJ Lee Group  
 Project Number: LLH901997  
 Analysis Method:

Comments / # of Layers: 100 Point Count, Detection Limit = 0.1%

Stereo-scope		Asbestos Type		Color/Pleochroism		Indices of Refraction		Birefringence	Sign of Elongation	Extinction Angle	QC Analyst:
%	%		Morphology		⊥		⊥	L M	P N		NFM% <u>100%</u>
			W C S					L M	P N		Quartz Carbonates Vermiculite Tar Binder Opaques Perlite Amphibole Gypsum Talc Feldspar Mica Clay Organic Part. Diatoms Misc Particles Foam Foil
			W C S					L M	P N		
			W C S					L M	P N		
% Non-Asbestos Fibers		Optical Properties		Layered Results		Asbestos	Non-Asb.	Matrix			
	<u>&lt;0.1%</u>		<u>Tremolite Cleavage</u>		<u>R.I.</u>						

Type	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Total
ASB	0	0	0	0	0	0	0	0	0
CLE	0	0	0	0	0	0	0	0	0
NAS	100	100	100	100	100	100	100	100	800
Total	100	100	100	100	100	100	100	100	800

Detection Limit =  $\frac{1}{1000} \times 100\% = 0.1\%$

Effective Date: March 2019  
Form F OPT.001

**PLM Point Count Additional Slides Worksheet**

Date: 05/16/19 Analyst: WT Microscope: 023-DPT

RJ Lee Group Sample Number: 3158164 RJ Lee Group Project Number: LLH901997

Type	Slide 9	Slide 10	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Total
ASB	0	0							0
CLC	0	0							0
NAS	100	100							200
Total	100	100							200

Type	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Total
Total									

Type	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Total
Total									

**Polarized Light Microscopy Point Count Worksheet for Asbestos Analysis of Bulk Samples**

Date: 05/16/14 Analyst: WT Scope: 023-0PT

Sample Description: Gray Crushed Rock.

RJ Lee Group  
 Sample Number: 3158165  
 RJ Lee Group  
 Project Number: LLH901997  
 Analysis Method:

Comments / # of Layers: 1000 Point Count. Detection Limit = 0.1%

Stereo-scope	%	Asbestos Type	Morphology	Color/Pleochroism		Indices of Refraction		Birefringence	Sign of Elongation	Extinction Angle	QC Analyst:
					⊥		⊥				
	<0.1%	Tremolite	W C S	CDL	N	1.608	1.601	L M	P N	PL	NFM% 100%
			W C S					L M	P N		Quartz
			W C S					L M	P N		Tar
											Carbonates
											Binder
											Opagals
											Perlite
											Amphibole
											Gypsum
											Talc
											Feldspar
											Mica
											Clay
											Organic Part.
											Diatoms
											Mist Particles
											Foam
											Foil

Type	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Total
ASB	0	0	0	0	0	0	0	0	0
CLE	0	0	0	0	0	0	0	0	0
NAS	100	100	100	100	100	100	100	100	800
Total	100	100	100	100	100	100	100	100	800

Detection Limit =  $\frac{1}{1000} \times 100\% = 0.1\%$

Effective Date: March 2019  
Form F OPT.001

**PLM Point Count Additional Slides Worksheet**

Date: 05/16/19 Analyst: WT Microscope: 023-0PT

RJ Lee Group Sample Number: 3158165 RJ Lee Group Project Number: LLH901997

Type	Slide <u>9</u>	Slide <u>10</u>	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
ASB	0	0							0
CLE	0	0							0
NAS	100	100							200
Total	100	100							200

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
Total									

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
Total									

**Polarized Light Microscopy Point Count Worksheet for Asbestos Analysis of Bulk Samples**

Date: 05/21/19 Analyst: JM Scope: 055-OPT

Sample Description: Gray Crushed rock

RJ Lee Group  
 Sample Number: 3158166  
 RJ Lee Group  
 Project Number: LLH901997  
 Analysis Method:

Comments / # of Layers: 1000 points counted. Detection limit of 0.1%.

Stereo-scope	%	%	Asbestos Type	Morphology	Color/Pleochroism		Indices of Refraction		Birefringence	Sign of Elongation	Extinction Angle	QC Analyst:
						⊥		⊥				
				W C S					L M	P N		NFM% <u>99.3</u>
				W C S					L M	P N		
				W C S					L M	P N		
			% Non-Asbestos Fibers		Optical Properties		Layered Results		Asbestos	Non-Asb.	Matrix	
			<u>0.7 Hornblende</u>		<u>1.665</u> ⊥ <u>1.655</u>							

- Quartz
- Tar
- Perlite
- Talc
- Clay
- Misc Particles
- Carbonates
- Binder
- Amphibole
- Feldspar
- Organic Part.
- Foam
- Vermiculite
- Opagues
- Gypsum
- Mica
- Diatoms
- Foil

Type	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Total
NAS	100	100	99	99	99	100	99	99	795
Hornblende	0	0	1	1	1	0	1	1	5
Total	100	100	100	100	100	100	100	100	800

Detection limit =  $\frac{1}{1000} \times 100\% = 0.1\%$

**PLM Point Count Additional Slides Worksheet**

Date: 05/21/19 Analyst: JM Microscope: 055-OPT

RJ Lee Group Sample Number: 3158166 RJ Lee Group Project Number: 44901997

Type	Slide <u>9</u>	Slide <u>10</u>	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Total
NAS	99	99							198
Hornblend	1	1							2
Total	100	100							200

Type	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Total
Total									

Type	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Total
Total									

**Polarized Light Microscopy Point Count Worksheet for Asbestos Analysis of Bulk Samples**

Date: 05/21/19 Analyst: JM Scope: 055-0PT

Sample Description: Gray crushed rock

RJ Lee Group  
Sample Number: 3158167  
RJ Lee Group  
Project Number: LLH901997  
Analysis Method:

Comments / # of Layers: 1000 points counted. Detection limit of 0.1%

Stereo-scope	%	Asbestos Type	Morphology	Color/Pleochroism		Indices of Refraction		Birefringence	Sign of Elongation	Extinction Angle	QC Analyst:
					⊥		⊥				
	<0.1	Actinolite	WCS	COL	COL	1.640	1.630	L (M)	(P) N	0°	NFM% 100
			WCS					L M	P N		
			WCS					L M	P N		
	% Non-Asbestos Fibers			Optical Properties		Layered Results		Asbestos	Non-Asb.	Matrix	
	<0.1	Actinolite	cleavage	<del>1.63</del>	1.63	05/22/19 JM					
					1.640						
				⊥	1.630						

- Quartz
- Tar
- Perlite
- Talc
- Clay
- Misc Particles
- Carbonates
- Binder
- Amphibole
- Feldspar
- Organic Part.
- Foam
- Vermiculite
- Opaques
- Gypsum
- Mica
- Diatoms
- Foil

Type	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Total
NAS	100	100	100	100	100	100	100	100	800
Total	100	100	100	100	100	100	100	100	800

Detection limit =  $\frac{1}{1000} \times 100\% = 0.1\%$

Effective Date: March 2019  
Form F OPT.001

**PLM Point Count Additional Slides Worksheet**

Date: 05/22/19 Analyst: JM Microscope: 055-OPT

RJ Lee Group Sample Number: 3158167 RJ Lee Group Project Number: LLH901997

Type	Slide <u>9</u>	Slide <u>10</u>	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Total
<u>NAS</u>	<u>100</u>	<u>100</u>							<u>200</u>
Total	<u>100</u>	<u>100</u>							<u>200</u>

Type	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Total
Total									

Type	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Slide ___	Total
Total									



**Polarized Light Microscopy Point Count Worksheet for Asbestos Analysis of Bulk Samples**

Date: 05/22/19 Analyst: JM Scope: 055-OPT

Sample Description: Gray crushed rock

RJ Lee Group  
Sample Number: 3158168  
RJ Lee Group  
Project Number: LLH901997  
Analysis Method:

Comments /  
# of Layers: 1000 points counted. Detection limit of 0.1%

Stereo-scope					# of Preps: <u>10</u>	Homogenous Y N		QC Y N	QC Analyst:		
%	%	Asbestos Type	Morphology	Color/Pleochroism    ⊥		Indices of Refraction    ⊥		Birefringence L M	Sign of Elongation P N	Extinction Angle	NFM% <u>99.9</u>
			W C S					L M	P N		Quartz Tar Perlite Talc Clay Misc Particles Carbonates Binder Amphibole Feldspar Organic Part. Foam Vermiculite Opaques Gypsum Mica Diatoms Foil
			W C S					L M	P N		
			W C S					L M	P N		
		% Non-Asbestos Fibers		Optical Properties		Layered Results		Asbestos	Non-Asb.	Matrix	
	<u>0.1</u>	<u>Actinolite</u>	<u>cleavage</u>	<u>   +.630</u>	<u>1.640</u>						
				<u>⊥ +.62</u>	<u>1.630</u>						
				<u>05/22/19 JM</u>							

Type	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Total
<u>NAS</u>	<u>100</u>	<u>100</u>	<u>99</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>799</u>
<u>Actinolite cleavage</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>+1000</u>	<u>0</u>	<u>0</u>	<u>1</u>
						<u>05/23/19 JM</u>			
Total	<u>2 100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>106</u>	<u>100</u>	<u>100</u>	<u>800</u>

05/22/19 JM

$$\text{Detection limit} = \frac{1}{1000} \times 100\% = 0.1\%$$

PLM Point Count Additional Slides Worksheet

Date: 05/23/19 Analyst: JM Microscope: 055-0PT

RJ Lee Group Sample Number: 3158168 RJ Lee Group Project Number: LLH901997

Type	Slide <u>9</u>	Slide <u>10</u>	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
<u>NAS</u>	<u>100</u>	<u>100</u>							<u>200</u>
<u>Actinolite cleavage</u>	<u>0</u>	<u>0</u>							<u>0</u>
<b>Total</b>	<u>100</u>	<u>100</u>							<u>200</u>

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
<b>Total</b>									

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
<b>Total</b>									

**Polarized Light Microscopy Point Count Worksheet for Asbestos Analysis of Bulk Samples**

Date: 05/23/19 Analyst: WT Scope: 023-0PT

Sample Description: Gray Crushed Rock.

RJ Lee Group  
 Sample Number: 3158169  
 RJ Lee Group  
 Project Number: LLH901997  
 Analysis Method:

Comments / # of Layers: 1000 Point Count, Detection Limit = 0.1%

Stereo-scope	%	Asbestos Type	Morphology	Color/Pleochroism		Indices of Refraction		Birefringence	Sign of Elongation	Extinction Angle	QC Y N	QC Analyst:	
					⊥		⊥						
			W C S					L M	P N				
			W C S					L M	P N				
			W C S					L M	P N				
		% Non-Asbestos Fibers		Optical Properties		Layered Results		Asbestos	Non-Asb.	Matrix	NFM% <u>100%</u>		
	<u>&lt;0.1%</u>	<u>Horakleude</u>		<u>1.665/1.654</u>							Quartz	Carbonates	Vermiculite
											Tar	Binder	Opagues
											Perlite	Amphibole	Gypsum
											Talc	Feldspar	Mica
											Clay	Organic Part.	Diatoms
											Misc Particles	Foam	Foil

Type	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Total
ASB	0	0	0	0	0	0	0	0	0
CLE	0	0	0	0	0	0	0	0	0
NAS	100	100	100	100	100	100	100	100	800
Total	100	100	100	100	100	100	100	100	800

Detection Limit =  $\frac{1}{1000} \times 100\% = 0.1\%$

Effective Date: March 2019  
Form F OPT.001

**PLM Point Count Additional Slides Worksheet**

Date: 05/23/19 Analyst: WT Microscope: 023-OPT

RJ Lee Group Sample Number: 3158169 RJ Lee Group Project Number: LLH901997

Type	Slide <u>9</u>	Slide <u>10</u>	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
ASB	0	0							0
CLE	0	0							0
NAS	100	100							200
Total	100	100							200

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
Total									

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
Total									

**Polarized Light Microscopy Point Count Worksheet for Asbestos Analysis of Bulk Samples**

Date: 05/23/19 Analyst: WT Scope: 023-0PT

Sample Description: Gray Crushed Rock.

RJ Lee Group  
 Sample Number: 3158170  
 RJ Lee Group  
 Project Number: LL14901997  
 Analysis Method:

Comments /  
 # of Layers:

1000 Point Count, Detection Limit = 0.1%

Stereo-scope				Color/Pleochroism		Indices of Refraction		Birefringence	Sign of Elongation	Extinction Angle	QC Y N	QC Analyst:
%	%	Asbestos Type	Morphology		⊥		⊥					
	<u>&lt;0.1%</u>	<u>Actinolite</u>	<u>WCS</u>	<u>GR</u>	<u>N</u>	<u>1.638</u>	<u>1.632</u>	<u>L M</u>	<u>P N</u>	<u>PL</u>	<input checked="" type="checkbox"/>	
	<u>&lt;0.1%</u>	<u>Tremolite</u>	<u>WCS</u>	<u>COL</u>	<u>N</u>	<u>1.633</u>	<u>1.625</u>	<u>L M</u>	<u>P N</u>	<u>PL</u>	<input checked="" type="checkbox"/>	
			<u>WCS</u>					<u>L M</u>	<u>P N</u>			
		% Non-Asbestos Fibers		Optical Properties		Layered Results		Asbestos	Non-Asb.	Matrix		
	<u>&lt;0.1%</u>	<u>Actinolite Cleavage</u>		<u>RI.</u>								

- NFM% 100%
- Quartz
  - Carbonates
  - Vermiculite
  - Tar
  - Binder
  - Opaques
  - Perlite
  - Amphibole
  - Gypsum
  - Talc
  - Feldspar
  - Mica
  - Clay
  - Organic Part.
  - Diatoms
  - Misc Particles
  - Foam
  - Foil

Type	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Total
<u>ASB</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>CLE</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>NAS</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>800</u>
<u>Total</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>800</u>

Detection Limit =  $\frac{1}{1000} \times 100\% = 0.1\%$

Effective Date: March 2019  
Form F OPT.001

**PLM Point Count Additional Slides Worksheet**

Date: 05/23/19 Analyst: WT Microscope: 023-01T

RJ Lee Group Sample Number: 3158170 RJ Lee Group Project Number: LLH901997

Type	Slide <u>9</u>	Slide <u>10</u>	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
ASB	0	0							0
CLB	0	0							0
NAS	100	100							200
Total	100	100							200

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
Total									

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
Total									

**Polarized Light Microscopy Point Count Worksheet for Asbestos Analysis of Bulk Samples**

Date: 05/21/19 Analyst: DF Scope: 036-ePT

Sample Description: Gray Crushed Rock

Comments / # of Layers: 1000 pt count Detection Limit =  $\frac{1}{1000} \times 100\% = 0.1$

RJ Lee Group Sample Number: <u>3158157</u> RJ Lee Group Project Number: <u>LLH901997</u> Analysis Method:				# of Preps:		Homogenous Y N		QC Y N		QC Analyst:	
Stereo-scope	%	Asbestos Type	Morphology	Color/Pleochroism    ⊥		Indices of Refraction    ⊥		Birefringence L M	Sign of Elongation P N	Extinction Angle	NFM%
			W C S					L M	P N		Quartz
			W C S					L M	P N		Carbonates
			W C S					L M	P N		Vermiculite
		% Non-Asbestos Fibers	Optical Properties		Layered Results		Asbestos	Non-Asb.	Matrix		Tar
											Binder
											Opacues
											Perlite
											Amphibole
											Gypsum
											Talc
											Feldspar
											Mica
											Clay
											Organic Part.
											Diatoms
											Misc Particles
											Foam
											Foil

Type	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Total
NAS	100	100	100	100	100	100	100	100	800
ASB	0	0	0	0	0	0	0	0	0
Total	100	100	100	100	100	100	100	100	800

Detection Limit =  $\frac{1}{1000} \times 100\% = 0.1$

Effective Date: March 2019  
Form F OPT.001

**PLM Point Count Additional Slides Worksheet**

Date: 05/21/19 Analyst: DF Microscope: 03G-OPT

RJ Lee Group Sample Number: LLH901997 RJ Lee Group Project Number: 3158157

Type	Slide <u>9</u>	Slide <u>10</u>	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
NAS	100	100							200
ASB	0	0							
Total	100	100							1000

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
Total									

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
Total									



**Polarized Light Microscopy Point Count Worksheet for Asbestos Analysis of Bulk Samples**

Date: 05/14/19 Analyst: DF Scope: 036-0PT

Sample Description: Gray Crushed Rock

RJ Lee Group  
 Sample Number: 3158158  
 RJ Lee Group  
 Project Number:  
 Analysis Method: LLH 901997

Comments / # of Layers: 1000 pt Count Detection Limit  $\frac{1}{1000} \times 100\% = 0.1$

Stereo-scope	%	Asbestos Type	Morphology	Color/Pleochroism		Indices of Refraction		Homogenous		QC		QC Analyst:	
					⊥		⊥	Y	N	Y	N		
			WCS					L M	P N				
			WCS					L M	P N				
			WCS					L M	P N				
		% Non-Asbestos Fibers		Optical Properties		Layered Results		Asbestos	Non-Asb.	Matrix	NFM%		
		1% Trem. Clev									Quartz	Carbonates	Vermiculite
											Tar	Binder	Opaque
											Perlite	Amphibole	Gypsum
											Talc	Feldspar	Mica
											Clay	Organic Part.	Diatoms
											Misc Particles	Foam	Foil

Type	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Total
NAS	98	100	100	99	98	99	99	99	792
ASB	0	0	0	0	0	0	0	0	0
clev	2	0	0	1	2	1	1	1	8
Total	100	100	100	100	100	100	100	100	800

Effective Date: March 2019  
Form F OPT.001

**PLM Point Count Additional Slides Worksheet**

Date: 05/14/19 Analyst: DF Microscope: 03G-OPT

RJ Lee Group Sample Number: 3158158 RJ Lee Group Project Number: LLH 901 997

Type	Slide <u>9</u>	Slide <u>10</u>	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
NAS	99	100							199
ASB	0	0							0
Clev	1	<sup>of slide</sup> <del>0</del> 1							2
Total	100	100							1000

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
Total									

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
Total									

**Polarized Light Microscopy Point Count Worksheet for Asbestos Analysis of Bulk Samples**

Date: 05/21/19 Analyst: DF Scope: 036-0PT

Sample Description: Crushed Gray Rock

RJ Lee Group  
 Sample Number: 3159159  
 RJ Lee Group  
 Project Number: LL4961997  
 Analysis Method:

Comments / # of Layers: 100 ppt count  $\frac{1}{1000} \times 1000\% = 0.1$   
 Detection Limit:

Stereo-scope	%	Asbestos Type	Morphology	Color/Pleochroism		Indices of Refraction		Homogenous		QC		QC Analyst:
					⊥		⊥	Y	N	Y	N	
			W C S					L M	P N			
			W C S					L M	P N			
			W C S					L M	P N			
		% Non-Asbestos Fibers		Optical Properties		Layered Results		Asbestos	Non-Asb.	Matrix	NFM%	
											Quartz	Carbonates
											Tar	Binder
											Perlite	Amphibole
											Talc	Feldspar
											Clay	Organic Part.
											Misc. Particles	Foam
												Vermiculite
												Opaques
												Gypsum
												Mica
												Diatoms
												Foil

Type	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Total
NAS	100	100	100	100	100	100	100	100	800
ABS	0	0	0	0	0	0	0	0	0
Total	100	100	100	100	100	100	100	100	800

Detection Limit =  $\frac{1}{1000} \times 100\% = 0.1$

Effective Date: March 2019  
Form F OPT.001

**PLM Point Count Additional Slides Worksheet**

Date: 05/21/19 Analyst: DF Microscope: 036-0PT

RJ Lee Group Sample Number: 3158159 RJ Lee Group Project Number: LLH901997

Type	Slide <u>9</u>	Slide <u>10</u>	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
NAS	100	100							200
ABS	0	0							0
<b>Total</b>	100	100							1000

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
<b>Total</b>									

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
<b>Total</b>									

**Polarized Light Microscopy Point Count Worksheet for Asbestos Analysis of Bulk Samples**

Date: 05/22/19 Analyst: DF Scope: 036-0PT

Sample Description: Gray Crushed Rock

RJ Lee Group  
 Sample Number: 3158160  
 RJ Lee Group  
 Project Number: LLH901997  
 Analysis Method:

Comments / # of Layers: 100pt Count Detection Limit =  $\frac{1}{1000} \times 100\% = 0.1$

Stereo-scope	%	%	Asbestos Type	Morphology	Color/Pleochroism		Indices of Refraction		Homogenous		QC		QC Analyst:	
						⊥		⊥	Y	N	Y	N		
				W C S					L M	P N				
				W C S					L M	P N				
				W C S					L M	P N				
			% Non-Asbestos Fibers		Optical Properties		Layered Results		Asbestos	Non-Asb.	Matrix	NFM%		
												Quartz	Carbonates	Vermiculite
												Tar	Binder	Opales
												Perlite	Amphibole	Gypsum
												Talc	Feldspar	Mica
												Clay	Organic Part.	Diatoms
												Misc Particles	Foam	Foil

Type	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Total
NAS	100	100	100	100	100	100	100	100	800
ASB	0	0	0	0	0	0	0	0	0
Total	100	100	100	100	100	100	100	100	800

Detection Limit =  $\frac{1}{1000} \times 100\% = 0.1$

Effective Date: March 2019  
Form F OPT.001

**PLM Point Count Additional Slides Worksheet**

Date: 05/22/19 Analyst: DF Microscope: 036-OPT

RJ Lee Group Sample Number: 3158160 RJ Lee Group Project Number: LLH901997

Type	Slide <u>9</u>	Slide <u>10</u>	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
<u>NAS</u>	<u>100</u>	<u>100</u>							<u>200</u>
<b>Total</b>									<u>1000</u>

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
<b>Total</b>									

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
<b>Total</b>									

**Polarized Light Microscopy Point Count Worksheet for Asbestos Analysis of Bulk Samples**

Date: 05/16/19 Analyst: DF Scope: 036-0PT

Sample Description: Gray Crushed Rock

RJ Lee Group  
 Sample Number: 3158161  
 RJ Lee Group  
 Project Number: LLH 901997  
 Analysis Method:

Comments / # of Layers: 1000 pt count Detection Limit =  $\frac{1}{1000} \times 100\% = 0.1$

Stereo-scope	%	Asbestos Type	Morphology	Color/Pleochroism		Indices of Refraction		Birefringence	Sign of Elongation	Extinction Angle	QC Analyst:	
					⊥		⊥					
			W C S					L M	P N		Quartz Tar Perlite Talc Clay Misc Particles	
			W C S					L M	P N			Carbonates Binder Amphibole Feldspar Organic Part.
			W C S					L M	P N			Vermiculite Opacues Gypsum Mica Diatoms Foam Foil
		% Non-Asbestos Fibers		Optical Properties		Layered Results		Asbestos	Non-Asb.	Matrix		

Type	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Total
NAS	100	100	100	100	100	100	100	100	800
ASB	0	0	0	0	0	0	0	0	0
Total	100	100	100	100	100	100	100	100	800

Detection Limit =  $\frac{1}{1000} \times 100\% = 0.1$

Effective Date: March 2019  
Form F OPT.001

**PLM Point Count Additional Slides Worksheet**

Date: 05/16/19 Analyst: DF Microscope: 036-0PT

RJ Lee Group Sample Number: 3158161 RJ Lee Group Project Number: LLH901997

Type	Slide <u>9</u>	Slide <u>10</u>	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
NAS	100	100							200
ASB	0	0							
Total	100	100							1000

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
Total									

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
Total									



**Polarized Light Microscopy Point Count Worksheet for Asbestos Analysis of Bulk Samples**

Date: 05/22/19 Analyst: DF Scope: 03G-0PT

Sample Description: Gray Crushed Rock

RJ Lee Group  
 Sample Number: 3158162  
 RJ Lee Group  
 Project Number:  
 Analysis Method: LLH901997

Comments / # of Layers: 1000 pt count Detection Limit  $\frac{1}{1000} \times 100\% = 0.1$

Stereo-scope	%	Asbestos Type	Morphology	Color/Pleochroism		Indices of Refraction		Homogenous		QC		QC Analyst:	
					⊥		⊥	Y	N	Y	N		
			W C S					L M	P N				
			W C S					L M	P N				
			W C S					L M	P N				
		% Non-Asbestos Fibers		Optical Properties		Layered Results		Asbestos	Non-Asb.	Matrix	NFM%		
											Quartz	Carbonates	Vermiculite
											Tar	Binder	Opauques
											Perlite	Amphibole	Gypsum
											Talc	Feldspar	Mica
											Clay	Organic Part.	Diatoms
											Misc Particles	Foam	Foil

Type	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Total
NAS	100	100	100	100	100	100	100	100	800
Total									800

Detection Limit =  $\frac{1}{1000} \times 100\% = 0.1$

Effective Date: March 2019  
Form F OPT.001

**PLM Point Count Additional Slides Worksheet**

Date: 05/22/19 Analyst: DF Microscope: 036-0PT

RJ Lee Group Sample Number: 3158162 RJ Lee Group Project Number: LLH901997

Type	Slide <u>9</u>	Slide <u>10</u>	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
	<u>100</u>	<u>100</u>							<u>200</u>
<b>Total</b>									<u>1000</u>

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
<b>Total</b>									

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
<b>Total</b>									

**Polarized Light Microscopy Point Count Worksheet for Asbestos Analysis of Bulk Samples**

Date: 05/22/19 Analyst: DF Scope: 036-0PT

Sample Description: Gray Crushed Rock

Comments / # of Layers: 1000 pt count Detection Limit:  $\frac{1}{1000} \times 100\% = 0.1$

RJ Lee Group Sample Number: 3158171 RJ Lee Group Project Number: LLH901997 Analysis Method:										# of Preps: _____ Homogenous Y N QC Y N QC Analyst: _____									
Stereo-scope	%	%	Asbestos Type	Morphology	Color/Pleochroism		Indices of Refraction		Birefringence	Sign of Elongation	Extinction Angle	NFM%							
						⊥		⊥											
				W C S					L M	P N		Quartz							
				W C S					L M	P N		Tar							
				W C S					L M	P N		Carbonates							
	% Non-Asbestos Fibers			Optical Properties		Layered Results			Asbestos	Non-Asb.	Matrix	Vermiculite							
												Binder							
												Opales							
												Amphibole							
												Gypsum							
												Talc							
												Feldspar							
												Mica							
												Clay							
												Organic Part.							
												Diatoms							
												Misc Particles							
												Foam							
												Foil							

Type	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Total
NAS	100	100	100	100	100	100	100	100	800
ABS	0	0	0	0	0	0	0	0	
Total	100	100	100	100	100	100	100	100	800

Detection Limits:  $\frac{1}{1000} \times 100\% = 0.1$

Effective Date: March 2019  
Form F OPT.001

**PLM Point Count Additional Slides Worksheet**

Date: 05/22/19 Analyst: DF Microscope: 036-0PT

RJ Lee Group Sample Number: 3158171 RJ Lee Group Project Number: LLH901997

Type	Slide <u>9</u>	Slide <u>10</u>	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
NAS	100	100							200
ABS	0	0							0
<b>Total</b>	100	100							1000

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
<b>Total</b>									

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
<b>Total</b>									

**Polarized Light Microscopy Point Count Worksheet for Asbestos Analysis of Bulk Samples**

Date: 05/22/19 Analyst: DF Scope: 036-OPT

Sample Description: Gray Crushed Rock

RJ Lee Group  
 Sample Number: 315 8172  
 RJ Lee Group  
 Project Number:  
 Analysis Method: LLH 901997

Comments / # of Layers: 100pt count - Detection Limit:  $\frac{1}{1000} \times 100\% = 0.1$

Stereo-scope	%	Asbestos Type	Morphology	Color/Pleochroism		Indices of Refraction		Homogenous		QC		QC Analyst:	
					⊥		⊥	Y	N	Y	N		
			WCS					L M	P N				
			WCS					L M	P N				
			WCS					L M	P N				
		% Non-Asbestos Fibers		Optical Properties		Layered Results		Asbestos	Non-Asb.	Matrix	NFM%		
											Quartz	Carbonates	Vermiculite
											Tar	Binder	Opâques
											Perlite	Amphibole	Gypsum
											Talc	Feldspar	Mica
											Clay	Organic Part.	Diatoms
											Misc Particles	Foam	Foil

Type	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Total
NAS	100	100	100	100	100	100	100	100	800
	0	0	0	0	0	0	0	0	
Total	100	100	100	100	100	100	100	100	800

Effective Date: March 2019  
Form F OPT.001

**PLM Point Count Additional Slides Worksheet**

Date: 05/22/19 Analyst: DF Microscope: 036-OPT

RJ Lee Group Sample Number: 3158172 RJ Lee Group Project Number: LLH901997

Type	Slide <u>9</u>	Slide <u>10</u>	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
NAS	100	100							200
ASB	0	0							
Total									1000

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
Total									

Type	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Slide ____	Total
Total									