

APPENDIX 7.1 -- Northern Tract Core Samples Report

Laboratory Report

GAF/ELK
 1361 Alps Road
 Wayne, NJ 07470
 United States
 Attention: Celeste Levine
 Telephone: 973-628-3035

Report Date 04/14/2017
 Sample Receipt Date 03/28/2017
 RJ Lee Group Job No. AOH1044819-0
 Authorization/P.O. No. CH56476
 Client Job No./Name Northern Tract 2013 Drill Core

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
10404753.HPL	SRM No. 9314	Yes	1	ND	<1 CE	100.00	OP, M	AKB-04/11/2017
Description:		Gray Granular Material No Asbestiform Minerals Detected. Limit Of Detection = 0.1%. 1000 Points Counted.						
Weight Loss:		0.0%						
10404754.HPL	SRM No. 9316	Yes	1	ND		100.00	Q, CA, AM, OP, M	EB-04/14/2017
Description:		Green Powder 1000 Point Count. Detection Limit of 0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404755.HPL	SRM No. 9301	Yes	1	ND		100.00	Q, CA, AM, OP, M	JM-04/13/2017
Description:		Green Powder 1000 points counted Detection limit of 0.1%. No asbestiform minerals detected.						
Weight Loss:		0.0%						

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10404756.HPL	SRM No. 9303	Yes	1	ND		100.00	Q, CA, AM, OP, M	JM-04/13/2017
Description:		Green Powder 1000 points counted. Detection limit of 0.1%. No asbestiform minerals detected.						
Weight Loss:		0.0%						
10404757.HPL	SRM No. 9283	Yes	1	ND		100.00	Q, CA, AM, OP, M	JS-04/13/2017
Description:		Gray Powder 1000 Points Counted. Detection Limit of 0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404758.HPL	SRM No. 9285	Yes	1	ND		100.00	Q, CA, AM, OP, M	JS-04/13/2017
Description:		Gray Powder 1000 Points Counted. Detection Limit of 0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404759.HPL	SRM No. 9297	Yes	1	ND		100.00	Q, OP, M	WT-04/13/2017
Description:		Gray Powder. 1000 Point Counted. Detection Limit=0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404760.HPL	SRM No. 9202	Yes	1	ND		100.00	Q, CA, OP, M	WT-04/13/2017
Description:		Gray Powder. 1000 Point Counted. Detection Limit=0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404761.HPL	SRM No. 9204	Yes	1	ND		100.00	Q, CA, AM, OP, M	JS-04/13/2017
Description:		Gray Powder 1000 Points Counted. Detection Limit of 0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						

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10404762.HPL	SRM No. 9209	Yes	1	ND		100.00	Q, CA, AM, OP, M	JS-04/13/2017
Description:		Gray Powder 1000 Points Counted. Detection Limit of 0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404763.HPL	SRM No. 9279	Yes	1	ND		100.00	Q, AM, OP, M	JS-04/13/2017
Description:		Gray Powder 1000 Points Counted. Detection Limit of 0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404764.HPL	SRM No. 9281	Yes	1	0.3 AC		99.70	Q, AM, OP, M	WT-04/13/2017
Description:		Gray Powder. 1000 Point Counted. Detection Limit=0.1%. 0.3% Actinolite Detected.						
Weight Loss:		0.0%						
10404765.HPL	SRM No. 9206	Yes	1	ND		100.00	Q, M	WT-04/13/2017
Description:		Gray Powder. 1000 Point Counted. Detection Limit=0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404766.HPL	SRM No. 9208	Yes	1	ND		100.00	Q, AM, OP, M	JS-04/13/2017
Description:		Gray Powder 1000 Points Counted. Detection Limit of 0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404767.HPL	SRM No. 9212	Yes	1	ND		100.00	Q, OP, M	WT-04/13/2017
Description:		Green Powder. 1000 Point Counted. Detection Limit=0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						

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10404768.HPL	SRM No. 9214	Yes	1	ND		100.00	Q, OP, M	WT-04/13/2017
Description:		Gray Powder. 1000 Point Counted. Detection Limit=0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404769.HPL	SRM No. 9216	Yes	1	ND		100.00	Q, OP, M	WT-04/12/2017
Description:		Gray Powder. 1000 Point Counted. Detection Limit=0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404770.HPL	SRM No. 9312	Yes	1	ND		100.00	Q, CA, OP, M	WT-04/12/2017
Description:		Green Powder. 1000 Point Counted. Detection Limit=0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404771.HPL	SRM No. 9290	Yes	1	ND		100.00	Q, CA, AM, OP, M	EB-04/12/2017
Description:		Green Powder 1000 Point Count. Detection Limit of 0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404772.HPL	SRM No. 9293	Yes	1	ND		100.00	Q, CA, AM, OP, M	EB-04/12/2017
Description:		Green Powder 1000 Point Count. Detection Limit of 0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404773.HPL	SRM No. 9295	Yes	1	ND		100.00	Q, AM, OP, M	WT-04/12/2017
Description:		Gray Powder. 1000 Point Counted. Detection Limit=0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						

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10404774.HPL	SRM No. 9299	Yes	1	ND		100.00	Q, CA, OP, M	WT-04/12/2017
Description:		Gray Powder. 1000 Point Counted. Detection Limit=0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404775.HPL	SRM No. 9241	Yes	1	ND		100.00	Q, AM, OP, M	WT-04/12/2017
Description:		Gray Powder. 1000 Point Counted. Detection Limit=0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404776.HPL	SRM No. 9240	Yes	1	0.5 AC		99.50	Q, AM, OP, M	WT-04/12/2017
Description:		Gray Powder. 1000 Point Counted. Detection Limit=0.1%. 0.5% Actinolite Detected.						
Weight Loss:		0.0%						
10404777.HPL	SRM No. 9237	Yes	1	0.2 AC		99.80	Q, CA, AM, OP, M	JM-04/12/2017
Description:		Green Powder 1000 points counted. Detection limit of 0.1%. Actinolite asbestos detected at 0.2%.						
Weight Loss:		0.0%						
10404778.HPL	SRM No. 9304	Yes	1	ND		100.00	Q, CA, AM, OP, M	JM-04/12/2017
Description:		Green Powder 1000 points counted. Detection limit of 0.1%. No asbestiform minerals detected.						
Weight Loss:		0.0%						
10404779.HPL	SRM No. 9306	Yes	1	ND		100.00	Q, CA, AM, OP, MI, M	JM-04/12/2017
Description:		Green Powder 1000 points counted. Detection limit of 0.1%. No asbestiform minerals detected.						
Weight Loss:		0.0%						

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10404780.HPL	SRM No. 9218	Yes	1	ND		100.00	Q, CA, AM, OP, M	JM-04/12/2017
Description:		Green Powder 1000 points counted. Detection limit of 0.1%. No asbestiform minerals detected.						
Weight Loss:		0.0%						
10404781.HPL	SRM No. 9220	Yes	1	ND		100.00	CA, AM, OP, M	EB-04/11/2017
Description:		Light Green Powder 1000 Point Count. Detection Limit of 0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404782.HPL	SRM No. 9222	Yes	1	ND		100.00	CA, AM, OP, M	EB-04/11/2017
Description:		Light Green Powder 1000 Point Count. Detection Limit of 0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404783.HPL	SRM No. 9264	Yes	1	ND		100.00	Q, CA, AM, OP, M	EB-04/11/2017
Description:		Light Green Powder 1000 Point Count. Detection Limit of 0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404784.HPL	SRM No. 9259	Yes	1	ND		100.00	CA, AM, M	EB-04/11/2017
Description:		Light Green Powder 1000 Point Count. Detection Limit of 0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404785.HPL	SRM No. 9260	Yes	1	ND		100.00	CA, AM, OP, M	EB-04/11/2017
Description:		Light Green Powder 1000 Point Count. Detection Limit of 0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						

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10404786.HPL	SRM No. 9225	Yes	1	ND		100.00	CA, AM, OP, M	EB-04/11/2017
Description:		Light Green Powder 1000 Point Count. Detection Limit of 0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404787.HPL	SRM No. 9227	Yes	1	ND		100.00	Q, CA, AM, OP, M	JM-04/11/2017
Description:		Green Powder 1000 points counted. Detection limit of 0.1%. No asbestiform minerals detected.						
Weight Loss:		0.0%						
10404788.HPL	SRM No. 9229	Yes	1	ND		100.00	Q, CA, AM, OP, M	JM-04/11/2017
Description:		Gray Powder 1000 points counted. Detection limit of 0.1%. No asbestiform minerals detected.						
Weight Loss:		0.0%						
10404789.HPL	SRM No. 9308	Yes	1	ND		100.00	Q, CA, AM, OP, M	JM-04/11/2017
Description:		Gray Powder 1000 points counted. Detection limit of 0.1%. No asbestiform minerals detected.						
Weight Loss:		0.0%						
10404790.HPL	SRM No. 9310	Yes	1	ND		100.00	Q, AM, OP, M	WT-04/11/2017
Description:		Green Powder. 1000 Point Counted. Detection Limit=0.1%. No Asbestiform Minerals Detected.						
Weight Loss:		0.0%						
10404791.HPL	SRM No. 9287	Yes	1	ND		100.00	Q, CA, AM, OP, M	JM-04/11/2017
Description:		Green Powder 1000 points counted. Detection limit of 0.1%. No asbestiform minerals detected.						
Weight Loss:		0.0%						

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10404792.HPL	SRM No. 9289	Yes	1	ND		100.00	CA, AM, OP, M	EB-04/11/2017

Description: Green Powder
1000 Point Count. Detection Limit of 0.1%. No Asbestiform Minerals Detected.

Weight Loss: 0.0%

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Authorized Signature: _____

Elizabeth Brown

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.