

ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

104 East 25th Street, 10th Floor - New York, NY 10010 - Phone (212) 353 - 8280, FAX (212) 353 - 3599 or 8306

NVLAP 181187

ELAP 18879

Microscope OLYP BH-1

Client / Project NYC-BOE/PS 89M, 201 WARREN ST, NY, NY 10022 Project No. 14584-0819

Analysis Date 12/19/01 Analyst E. A. CANNERS Batch No. 19864

Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
01	Color <u>White/Black</u> Texture <u>NF</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☐ ☒ Color of Layer _____ Detected Yes No Comments: _____ Method: ☒ ELAP ☐ EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 5 prep. Asbestos = 0	Morphology _____ Extinction _____ RI I _____ RI II _____ DS Color _____ Color, Pleo _____ Biref _____ Sign _____	_____ Chrysotile _____ Amosite _____ Other	<u>72</u> Cellulose _____ Fiberglass _____ Other	<u>65</u> Mineral Filler <u>35</u> Organic Binders _____ Vermiculite _____ Other	<u>16.2</u> Organic <u>73.6</u> Residue <u>10.2</u> Carbonate _____ Other _____ Asbestos
02	Color <u>Gray</u> Texture <u>NF</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☐ ☒ Color of Layer _____ Detected Yes No Comments: <u>Residue less than 1%</u> Method: ☒ ELAP ☐ EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 5 prep. Asbestos = 0	Morphology _____ Extinction _____ RI I _____ RI II _____ DS Color _____ Color, Pleo _____ Biref _____ Sign _____	_____ Chrysotile _____ Amosite _____ Other	<u>1</u> Cellulose _____ Fiberglass _____ Other	<u>66</u> Mineral Filler <u>33</u> Organic Binders _____ Vermiculite _____ Other	<u>7.6</u> Organic <u>0.9</u> Residue <u>91.5</u> Carbonate _____ Other _____ Asbestos
03	Color <u>Gray</u> Texture <u>NF</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☐ ☒ Color of Layer _____ Detected Yes No Comments: <u>Residue less than 1%</u> Method: ☒ ELAP ☐ EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 5 prep. Asbestos = 0	Morphology _____ Extinction _____ RI I _____ RI II _____ DS Color _____ Color, Pleo _____ Biref _____ Sign _____	_____ Chrysotile _____ Amosite _____ Other	<u>1</u> Cellulose _____ Fiberglass _____ Other	<u>65</u> Mineral Filler <u>34</u> Organic Binders _____ Vermiculite _____ Other	<u>9.8</u> Organic <u>0.8</u> Residue <u>89.4</u> Carbonate _____ Other _____ Asbestos
04	Color <u>Tan</u> Texture <u>Fib</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☐ ☒ Color of Layer _____ Detected Yes No Comments: _____ Method: ☐ ELAP ☐ EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 5 prep. Asbestos = 0	Morphology _____ Extinction _____ RI I _____ RI II _____ DS Color _____ Color, Pleo _____ Biref _____ Sign _____	_____ Chrysotile _____ Amosite _____ Other	<u>45</u> Cellulose <u>35</u> Fiberglass _____ Other	<u>20</u> Mineral Filler _____ Organic Binders _____ Vermiculite <u>1.0</u> Other / <u>2.0</u>	_____ Organic _____ Residue _____ Carbonate _____ Other _____ Asbestos

CONFIDENTIAL
 SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

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104 East 25th Street, 10th Floor - New York, NY 10010 - Phone (212) 353 - 8280, FAX (212) 353 - 3599 or 8306

NYLAP 101187

ELAP 10070

Microscope OLYMP BH-2

Client / Project NYC BOE/PS 89M, 201 WAREH STProject No. 14584-0819Analysis Date 12/19/01 Analyst E. A. CHATEAUSBatch No. 19864

Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1 <u>05</u>	Color <u>Tan</u> Texture <u>Fib.</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☐ ☒ Color of Layer _____ Detected Yes No	Morphology _____ Extinction _____ RI I _____ RI II _____ DS Color _____ Color, Pleo _____ Biref _____ Sign _____	Chrysotile <u>45</u> Amosite <u>33</u> Other _____	Cellulose <u>22</u> Fiberglass _____ Other _____	Mineral Filler <u>22</u> Organic Binders _____ Vermiculite _____ Other <u>Paint</u>	Organic _____ Residue _____ Carbonate _____ Other _____ Asbestos _____
Comments:			Q.C. ☐			
Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 prep. Asbestos = 0						
2 <u>06</u>	Color <u>Tan</u> Texture <u>Fib.</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☐ ☒ Color of Layer _____ Detected Yes No	Morphology _____ Extinction _____ RI I _____ RI II _____ DS Color _____ Color, Pleo _____ Biref _____ Sign _____	Chrysotile <u>47</u> Amosite <u>30</u> Other _____	Cellulose <u>23</u> Fiberglass _____ Other _____	Mineral Filler <u>23</u> Organic Binders _____ Vermiculite _____ Other <u>Paint</u>	Organic _____ Residue _____ Carbonate _____ Other _____ Asbestos _____
Comments:			Q.C. ☐			
Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 prep. Asbestos = 0						
3	Color _____ Texture _____ Homogeneity _____ # of Layers _____ Asbestos ☐ ☐ Color of Layer _____ Detected Yes No	Morphology _____ Extinction _____ RI I _____ RI II _____ DS Color _____ Color, Pleo _____ Biref _____ Sign _____	Chrysotile _____ Amosite _____ Other _____	Cellulose _____ Fiberglass _____ Other _____	Mineral Filler _____ Organic Binders _____ Vermiculite _____ Other _____	Organic _____ Residue _____ Carbonate _____ Other _____ Asbestos _____
Comments:			Q.C. ☐			
Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 prep. Asbestos = 0						
4	Color _____ Texture _____ Homogeneity _____ # of Layers _____ Asbestos ☐ ☐ Color of Layer _____ Detected Yes No	Morphology _____ Extinction _____ RI I _____ RI II _____ DS Color _____ Color, Pleo _____ Biref _____ Sign _____	Chrysotile _____ Amosite _____ Other _____	Cellulose _____ Fiberglass _____ Other _____	Mineral Filler _____ Organic Binders _____ Vermiculite _____ Other _____	Organic _____ Residue _____ Carbonate _____ Other _____ Asbestos _____
Comments:			Q.C. ☐			
Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 prep. Asbestos = 0						

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

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ATC ASSOCIATES INC

GRAVIMETRIC (NOB) ANALYSIS SHEET

Kush

 Client / Project: NYC BOE / P.S 89 M, 201 Warren Street, NY. NY 10282 BATCH #: 19864

 Project No.: 14584-0819 DATE: 12/19/01

FIELD #	1 CRUC #	2 CRUC WT & SAMPLE	3 SAMPLE WT (2-1)	4 CRUC WT. & SAMPLE ASHED	5 LOSS ON ASH (2-4)	6 ORG %	7 PD# PD WT. & FILTER	8 PD WT FILTER & SAMPLE	9 RESIDUE WT (8-7)	10 TOTAL RESIDUE %	11 RESIDUE ASB % PLM TEM	12 NON ASB. RESIDUE %	13 CaCO ₃ %	14 TOTAL % ASB & TYPE
1	321 8.393	8.814	0.421	8.746	0.068	16.2	21 16.964	17.274	0.310	73.6	NSD		10.2	
2	287 7.592	7.923	0.331	7.898	0.025	7.6	44 15.962	15.965	0.003	0.9			41.5	
3	231 7.970	8.336	0.366	8.300	0.036	9.8	82 13.727	13.730	0.003	0.8			89.4	

SIGNATURE



 Methods: ELAP as per items 198.1 and 198.4
 EPA 600 / R - 93/116

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