

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 101187

ELAP 10879

Microscope OLYMP BH-2

Client / Project NYC-BOE/PS 89M, 201 WARREN ST, NY, NY 10028 Project No. 14584-0819

Analysis Date 11/02/01 Analyst E. A. CARTER Batch No. 19694

1	Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	<u>01</u>	Color <u>Brown</u> Texture <u>F</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 ☒ Amosite ☒ Other	<u>30</u> Cellulose <u>50</u> Fiberglass _____ Other	<u>20</u> Mineral Filler _____ Organic Binders _____ Vermiculite _____ Other	_____ Organic _____ Residue _____ Carbonate _____ Other _____ Asbestos
Comments:					Q.C. ☐		
POINT COUNT RESULTS ON THE BACK		Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0					

2	Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	<u>02</u>	Color <u>Brown</u> Texture <u>F</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 ☒ Amosite ☒ Other	<u>20</u> Cellulose <u>60</u> Fiberglass _____ Other	<u>20</u> Mineral Filler _____ Organic Binders _____ Vermiculite _____ Other	_____ Organic _____ Residue _____ Carbonate _____ Other _____ Asbestos
Comments:					Q.C. ☐		
POINT COUNT RESULTS ON THE BACK		Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0					

3	Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	<u>03</u>	Color <u>Brown</u> Texture <u>F</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☒ ☐ Color of Layer _____ Detected Yes No	Morphology <u>Wavy</u> Extinction <u>11</u> RI I <u>1.549</u> RI II <u>1.556</u> DS Color <u>B/H</u> Color, Pleo <u>N</u> Biref <u>L</u> Sign <u>K</u>	<u>0.25</u> Chrysotile _____ Amosite _____ Other	<u>14.75</u> Cellulose <u>70</u> Fiberglass _____ Other	<u>15</u> Mineral Filler _____ Organic Binders _____ Vermiculite _____ Other	_____ Organic _____ Residue _____ Carbonate _____ Other _____ Asbestos
Comments:					Q.C. ☐		
POINT COUNT RESULTS ON THE BACK		Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0					

4	Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	<u>04</u>	Color <u>Brown</u> Texture <u>F</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☒ ☐ Color of Layer _____ Detected Yes No	Morphology <u>Wavy</u> Extinction <u>11</u> RI I <u>1.549</u> RI II <u>1.556</u> DS Color <u>B/H</u> Color, Pleo <u>P</u> Biref <u>L</u> Sign <u>K</u>	<u>Trace</u> Chrysotile _____ Amosite _____ Other	<u>12</u> Cellulose <u>68</u> Fiberglass _____ Other	<u>20</u> Mineral Filler _____ Organic Binders _____ Vermiculite _____ Other	_____ Organic _____ Residue _____ Carbonate _____ Other _____ Asbestos
Comments:					Q.C. ☐		
POINT COUNT RESULTS ON THE BACK		Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0					

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

NYLAP 191167

ELAP 10679

Microscope OLYMP BH-2

Client / Project NYC-DOE/PS 89 M, 201 WARREN ST, NY, NY 10022 Project No. 14584-0819Analysis Date 11/02/01 Analyst E. A. CHARTEROS Batch No. 19694

Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
1 <u>05</u>	Color <u>Brown</u> Texture <u>F</u> Homogeneity <u>Y</u> # of Layers <u> </u> Asbestos ☐ ☒ Color of Layer <u> </u> Detected Yes No	Morphology <u> </u> Extinction <u> </u> RI I <u> </u> RI II <u> </u> DS Color <u> </u> Color, Pleo <u> </u> Biref <u> </u> Sign <u> </u>	☒ Chrysotile ☒ Amosite ☒ Other	<u>15</u> Cellulose <u>60</u> Fiberglass <u> </u> Other	<u>25</u> Mineral Filler <u> </u> Organic Binders <u> </u> Vermiculite <u> </u> Other	<u> </u> Organic <u> </u> Residue <u> </u> Carbonate <u> </u> Other <u> </u> 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>Brown</u> Texture <u>F</u> Homogeneity <u>Y</u> # of Layers <u> </u> Asbestos ☐ ☒ Color of Layer <u> </u> Detected Yes No	Morphology <u> </u> Extinction <u> </u> RI I <u> </u> RI II <u> </u> DS Color <u> </u> Color, Pleo <u> </u> Biref <u> </u> Sign <u> </u>	☒ Chrysotile ☒ Amosite ☒ Other	<u>17</u> Cellulose <u>63</u> Fiberglass <u> </u> Other	<u>20</u> Mineral Filler <u> </u> Organic Binders <u> </u> Vermiculite <u> </u> Other	<u> </u> Organic <u> </u> Residue <u> </u> Carbonate <u> </u> Other <u> </u> Asbestos
Comments:			Q.C. ☐			
Method: ☐ ELAP + EPA* ☐ ELAP ☐ EPA* ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA* First 4 prep. Asbestos = 0						
3 <u>07</u>	Color <u>Brown</u> Texture <u>F</u> Homogeneity <u>Y</u> # of Layers <u> </u> Asbestos ☐ ☒ Color of Layer <u> </u> Detected Yes No	Morphology <u> </u> Extinction <u> </u> RI I <u> </u> RI II <u> </u> DS Color <u> </u> Color, Pleo <u> </u> Biref <u> </u> Sign <u> </u>	☒ Chrysotile ☒ Amosite ☒ Other	<u>15</u> Cellulose <u>62</u> Fiberglass <u> </u> Other	<u>23</u> Mineral Filler <u> </u> Organic Binders <u> </u> Vermiculite <u> </u> Other	<u> </u> Organic <u> </u> Residue <u> </u> Carbonate <u> </u> Other <u> </u> Asbestos
Comments:			Q.C. ☐			
Method: ☐ ELAP + EPA* ☐ ELAP ☐ EPA* ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA* First 4 prep. Asbestos = 0						
4 <u>08</u>	Color <u>Brown</u> Texture <u>F</u> Homogeneity <u>Y</u> # of Layers <u> </u> Asbestos ☒ ☐ Color of Layer <u> </u> Detected Yes No	Morphology <u>Wavy</u> Extinction <u>Y</u> RI I <u>1.549</u> RI II <u>1.556</u> DS Color <u>B/L</u> Color, Pleo <u>N</u> Biref <u>L</u> Sign <u>+</u>	<u>0.25</u> Chrysotile <u> </u> Amosite <u> </u> Other	<u>14.75</u> Cellulose <u>60</u> Fiberglass <u> </u> Other	<u>25</u> Mineral Filler <u> </u> Organic Binders <u> </u> Vermiculite <u> </u> Other	<u> </u> Organic <u> </u> Residue <u> </u> Carbonate <u> </u> Other <u> </u> Asbestos
Comments:			Q.C. ☐			
Method: ☒ ELAP + EPA* ☐ ELAP ☐ EPA* ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA* First 4 prep. Asbestos = 0						

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INELAP 101187

ELAP 10879

Microscope OLYMP B11-2

Client / Project NYC-BOE/PS 89 M, 201 Warren St., NY, NY 10282 Project No. 14584-0819Analysis Date 11/02/01 Analyst E. A. Cuarteros Batch No. 19694

Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
09	Color <u>Brown</u> Texture <u>F</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☒ ☐ Color of Layer _____ Detected Yes No	Morphology <u>Wag</u> Extinction <u>H</u> RI <u>1.556</u> RI II <u>1.556</u> DS Color <u>BIM</u> Color, Pleo <u>N</u> Biref <u>L</u> Sign <u>+</u>	<u>Trace</u> Chrysotile Amosite Other	<u>20</u> Cellulose <u>55</u> Fiberglass Other	<u>25</u> Mineral Filler Organic Binders Vermiculite Other	Organic Residue Carbonate Other Asbestos
Gravimetric (NOB) Required ☐ Recommended ☒ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐ POINT COUNT RESULTS ON THE BACK	Comments: Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			D.C. ☐		
10	Color <u>Brown</u> Texture <u>F</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☐ ☒ Color of Layer _____ Detected Yes No	Morphology _____ Extinction _____ RI _____ RI II _____ DS Color _____ Color, Pleo _____ Biref _____ Sign _____	<u>/</u> Chrysotile Amosite Other	<u>10</u> Cellulose <u>10</u> Fiberglass Other	<u>80</u> Mineral Filler Organic Binders Vermiculite Other	Organic Residue Carbonate Other Asbestos
Gravimetric (NOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐ POINT COUNT RESULTS ON THE BACK	Comments: Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			D.C. ☒ ND / YK.		
11	Color <u>Brown</u> Texture <u>GL</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☐ ☒ Color of Layer _____ Detected Yes No	Morphology _____ Extinction _____ RI _____ RI II _____ DS Color _____ Color, Pleo _____ Biref _____ Sign _____	<u>/</u> Chrysotile Amosite Other	<u>10</u> Cellulose Fiberglass Other	<u>90</u> Mineral Filler Organic Binders Vermiculite Other	Organic Residue Carbonate Other Asbestos
Gravimetric (NOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐ POINT COUNT RESULTS ON THE BACK	Comments: Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			D.C. ☐		
12	Color <u>Brown</u> Texture <u>GL</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☐ ☒ Color of Layer _____ Detected Yes No	Morphology _____ Extinction _____ RI _____ RI II _____ DS Color _____ Color, Pleo _____ Biref _____ Sign _____	<u>/</u> Chrysotile Amosite Other	<u>8</u> Cellulose Fiberglass Other	<u>92</u> Mineral Filler Organic Binders Vermiculite Other	Organic Residue Carbonate Other Asbestos
Gravimetric (NOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐ POINT COUNT RESULTS ON THE BACK	Comments: Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			D.C. ☐		

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INLAP-101187

ELAP-10079

Microscope OLYMPUS BH-2

Client / Project NYC-BOE/PS 89 M, 201 WARREN ST, NY, NY 100282 Project No. 14584-0819Analysis Date 11/02/01 Analyst E. A. Cuarteros Batch No. 19694

1	Field No. <u>13</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required ☐	Color <u>Brown</u>	Texture <u>F</u>	Morphology <u>Wavy</u>	Extinction <u>11</u>	<u>0.25</u> Chrysotile	<u>13.75</u> Cellulose	<u>26</u> Mineral Filler	Organic
	Recommended ☒	Homogeneity <u>Y</u>		RI I <u>1.549</u>	RI II <u>1.556</u>	Amosite	<u>60</u> Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	Asbestos ☒	DS Color <u>B/M</u>	Color, Pleo <u>N</u>	Other	Other	Vermiculite	Carbonate
	Gravimetric (NOB) PLM ☐	Color of Layer	Detected Yes No	Biref <u>L</u>	Sign <u>+</u>			Other	Other
	Gravimetric (NOB) TEM ☐	Comments:							Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐				SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			
2	Field No. <u>14</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required ☐	Color <u>Brown</u>	Texture <u>GR</u>	Morphology	Extinction	<u>Trace</u> Chrysotile	<u>Trace</u> Cellulose	<u>100</u> Mineral Filler	Organic
	Recommended ☐	Homogeneity <u>Y</u>		RI I	RI II	Amosite	Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	Asbestos ☐	DS Color	Color, Pleo	Other	Other	Vermiculite	Carbonate
	Gravimetric (NOB) PLM ☐	Color of Layer	Detected Yes No	Biref	Sign			Other	Other
	Gravimetric (NOB) TEM ☐	Comments:							Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒				SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			
3	Field No. <u>15</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required ☐	Color <u>Brown</u>	Texture <u>F</u>	Morphology <u>Wavy</u>	Extinction <u>11</u>	<u>Trace</u> Chrysotile	<u>15</u> Cellulose	<u>27</u> Mineral Filler	Organic
	Recommended ☒	Homogeneity <u>Y</u>		RI I <u>1.549</u>	RI II <u>1.556</u>	Amosite	<u>58</u> Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	Asbestos ☒	DS Color <u>B/M</u>	Color, Pleo <u>N</u>	Other	Other	Vermiculite	Carbonate
	Gravimetric (NOB) PLM ☐	Color of Layer	Detected Yes No	Biref <u>L</u>	Sign <u>+</u>			Other	Other
	Gravimetric (NOB) TEM ☐	Comments:							Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐				SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			
4	Field No. <u>16</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required ☐	Color <u>Brown</u>	Texture <u>F</u>	Morphology <u>Wavy</u>	Extinction <u>11</u>	<u>0.75</u> Chrysotile	<u>19.25</u> Cellulose	<u>20</u> Mineral Filler	Organic
	Recommended ☒	Homogeneity <u>Y</u>		RI I <u>1.549</u>	RI II <u>1.556</u>	Amosite	<u>60</u> Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	Asbestos ☒	DS Color <u>B/M</u>	Color, Pleo <u>N</u>	Other	Other	Vermiculite	Carbonate
	Gravimetric (NOB) PLM ☐	Color of Layer	Detected Yes No	Biref <u>L</u>	Sign <u>+</u>			Other	Other
	Gravimetric (NOB) TEM ☐	Comments:							Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐				SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			

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NYLAP 101187

ELAP 10079

Microscope OLYMP BH-2

Client / Project NYC-BOE/PS 89 M, 201 WARREN ST., NY, NY 10282 Project No. 14584-0819Analysis Date 11/02/01 Analyst E. A. CARTEROSBatch No. 19694

1	Field No. <u>17</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required ☐	Color <u>Brown</u>	Texture <u>F</u>	Morphology <u>Wavy</u>	Extinction <u>11</u>	<u>0.25</u> Chrysotile	<u>12.75</u> Cellulose	<u>25</u> Mineral Filler	Organic
	Recommended ☒	Homogeneity <u>Y</u>		RI I <u>1.549</u>	RI II <u>1.556</u>	Amosite	<u>62</u> Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	Asbestos ☒ ☐	DS Color <u>B/H</u>	Color, Pleo <u>N</u>	Other	Other	Vermiculite	Carbonate
	Gravimetric (NOB) PLM ☐	Color of Layer	Detected Yes No	Biref <u>L</u>	Sign <u>+</u>			Other	Other
	Gravimetric (NOB) TEM ☐	Comments:							Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 pres. Asbestos = 0				Q.C. ☐			

2	Field No. <u>18</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required ☐	Color <u>Brown</u>	Texture <u>F</u>	Morphology	Extinction	Chrysotile	<u>20</u> Cellulose	<u>30</u> Mineral Filler	Organic
	Recommended ☐	Homogeneity <u>Y</u>		RI I	RI II	Amosite	<u>50</u> Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	Asbestos ☐ ☒	DS Color	Color, Pleo	Other	Other	Vermiculite	Carbonate
	Gravimetric (NOB) PLM ☐	Color of Layer	Detected Yes No	Biref	Sign			Other	Other
	Gravimetric (NOB) TEM ☐	Comments:							Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 pres. Asbestos = 0				Q.C. ☐			

3	Field No. <u>19</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required ☐	Color <u>Brown</u>	Texture <u>F</u>	Morphology <u>Wavy</u>	Extinction <u>11</u>	<u>Trace</u> Chrysotile	<u>10</u> Cellulose	<u>27</u> Mineral Filler	Organic
	Recommended ☐	Homogeneity <u>Y</u>		RI I <u>1.549</u>	RI II <u>1.556</u>	Amosite	<u>63</u> Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	Asbestos ☒ ☐	DS Color <u>B/H</u>	Color, Pleo <u>N</u>	Other	Other	Vermiculite	Carbonate
	Gravimetric (NOB) PLM ☐	Color of Layer	Detected Yes No	Biref <u>L</u>	Sign <u>+</u>			Other	Other
	Gravimetric (NOB) TEM ☐	Comments:							Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 pres. Asbestos = 0				Q.C. ☐			

4	Field No. <u>20</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required ☐	Color <u>Brown</u>	Texture <u>F</u>	Morphology	Extinction	Chrysotile	<u>17</u> Cellulose	<u>23</u> Mineral Filler	Organic
	Recommended ☐	Homogeneity <u>Y</u>		RI I	RI II	Amosite	<u>60</u> Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	Asbestos ☐ ☒	DS Color	Color, Pleo	Other	Other	Vermiculite	Carbonate
	Gravimetric (NOB) PLM ☐	Color of Layer	Detected Yes No	Biref	Sign			Other	Other
	Gravimetric (NOB) TEM ☐	Comments:							Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 pres. Asbestos = 0				Q.C. ☒ ND/SLC			

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INCLAP 101187

ELAP 10870

Microscope OLYMP BH-2

Client / Project NYC-BOE/PS 89 M, 201 Warren St, NY, NY 10282 Project No. 14584-0819Analysis Date 11/1/01 Analyst _____ Batch No. 19694

Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1 21	Color <u>Brown</u> Texture <u>F</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☐ ☒ Color of Layer _____ Detected Yes No Comments:	Morphology _____ Extinction _____ RI I _____ RI II _____ DS Color _____ Color, Pleo _____ Biref _____ Sign _____	☒ Chrysotile ☒ Amosite ☒ Other	<u>10</u> Cellulose <u>55</u> Fiberglass Other _____	<u>35</u> Mineral Filler Organic Binders _____ Vermiculite _____ Other _____	Organic _____ Residue _____ Carbonate _____ Other _____ Asbestos _____
Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			Q.C. ☐			
2 22	Color <u>Brown</u> Texture <u>F</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☒ ☐ Color of Layer _____ Detected Yes No Comments:	Morphology <u>Wavy</u> Extinction <u>11</u> RI I <u>1.549</u> RI II <u>1.556</u> DS Color <u>B/M</u> Color, Pleo <u>N</u> Biref <u>L</u> Sign <u>+</u>	<u>Trace</u> Chrysotile Amosite _____ Other _____	<u>10</u> Cellulose <u>60</u> Fiberglass Other _____	<u>30</u> Mineral Filler Organic Binders _____ Vermiculite _____ Other _____	Organic _____ Residue _____ Carbonate _____ Other _____ Asbestos _____
Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			Q.C. ☐			
3 23	Color <u>Brown</u> Texture <u>F</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☒ ☐ Color of Layer _____ Detected Yes No Comments:	Morphology <u>Wavy</u> Extinction <u>11</u> RI I <u>1.549</u> RI II <u>1.556</u> DS Color <u>B/M</u> Color, Pleo <u>N</u> Biref <u>L</u> Sign <u>+</u>	<u>Trace</u> Chrysotile Amosite _____ Other _____	<u>39</u> Cellulose <u>39</u> Fiberglass Other _____	<u>25</u> Mineral Filler Organic Binders _____ Vermiculite _____ <u>3</u> Other <u>Paint</u>	Organic _____ Residue _____ Carbonate _____ Other _____ Asbestos _____
Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			Q.C. ☐			
4 24	Color <u>Brown</u> Texture <u>F</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☒ ☐ Color of Layer _____ Detected Yes No Comments:	Morphology <u>Wavy</u> Extinction <u>11</u> RI I <u>1.549</u> RI II <u>1.556</u> DS Color <u>B/M</u> Color, Pleo <u>N</u> Biref <u>L</u> Sign <u>+</u>	<u>0.25</u> Chrysotile Amosite _____ Other _____	<u>12.75</u> Cellulose <u>57</u> Fiberglass Other _____	<u>30</u> Mineral Filler Organic Binders _____ Vermiculite _____ Other _____	Organic _____ Residue _____ Carbonate _____ Other _____ Asbestos _____
Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			Q.C. ☐			

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

NYLAP 101187

ELAP 10879

Microscope OLYMPUS BH-2

Client / Project NYC-BOE/PS 89 M, 201 WARREN ST., NY, NY 10282 Project No. 14584-0819Analysis Date 11/02/01 Analyst E. A. CHARTERS Batch No. 19694

Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1 25	Color <u>Brown</u> Texture <u>F</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☒ ☐ Color of Layer _____ Detected Yes No Comments: _____	Morphology <u>Hay</u> Extinction <u>11</u> RI I <u>1.549</u> RI II <u>1.556</u> DS Color <u>B/M</u> Color, Pleo <u>N</u> Biref <u>L</u> Sign <u>X</u>	<u>0.25</u> Chrysotile Amosite Other	<u>17.75</u> Cellulose <u>62</u> Fiberglass Other	<u>20</u> Mineral Filler Organic Binders Vermiculite Other	Organic Residue Carbonate Other Asbestos
Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 prep. Asbestos = 0			Q.C. ☐			
2 26	Color <u>Brown</u> Texture <u>F</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☐ ☒ Color of Layer _____ Detected Yes No Comments: _____	Morphology _____ Extinction _____ RI I _____ RI II _____ DS Color _____ Color, Pleo _____ Biref _____ Sign _____	Chrysotile Amosite Other	<u>25</u> Cellulose <u>60</u> Fiberglass Other	<u>15</u> Mineral Filler Organic Binders Vermiculite Other	Organic Residue Carbonate Other Asbestos
Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 prep. Asbestos = 0			Q.C. ☐			
3 27	Color <u>Brown</u> Texture <u>F</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☒ ☐ Color of Layer _____ Detected Yes No Comments: _____	Morphology <u>Hay</u> Extinction <u>11</u> RI I <u>1.549</u> RI II <u>1.556</u> DS Color <u>B/M</u> Color, Pleo <u>N</u> Biref <u>L</u> Sign <u>X</u>	<u>20</u> Chrysotile Amosite Other	<u>65</u> Cellulose <u>65</u> Fiberglass Other	<u>15</u> Mineral Filler Organic Binders Vermiculite Other	Organic Residue Carbonate Other Asbestos
Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 prep. Asbestos = 0			Q.C. ☐			
4 28	Color <u>Brown</u> Texture <u>F</u> Homogeneity <u>Y</u> # of Layers _____ Asbestos ☐ ☒ Color of Layer _____ Detected Yes No Comments: _____	Morphology _____ Extinction _____ RI I _____ RI II _____ DS Color _____ Color, Pleo _____ Biref _____ Sign _____	Chrysotile Amosite Other	<u>20</u> Cellulose <u>62</u> Fiberglass Other	<u>18</u> Mineral Filler Organic Binders Vermiculite Other	Organic Residue Carbonate Other Asbestos
Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 prep. Asbestos = 0			Q.C. ☐			

ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

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INCLAP 1011B7

ELAP 10B10

Microscope OLYMP BH-2

Client / Project NYC-BOE/PS 89 M, 201 WARREN ST, NY, NY 10282 Project No. 14584-0819

Analysis Date 11 / 1 / 01 Analyst _____ Batch No. 19694

1	Field No. <u>29</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required ☐	Color <u>Brown</u>	Texture <u>F</u>	Morphology _____	Extinction _____	☒ Chrysotile	<u>22</u> Cellulose	<u>15</u> Mineral Filler	Organic _____
	Recommended ☐	Homogeneity <u>Y</u>	Asbestos ☐ ☒	RI I _____	RI II _____	☐ Amosite	<u>63</u> Fiberglass	Organic Binders _____	Residue _____
	Gravimetric PREP ☐	# of Layers _____	Color of Layer _____	DS Color _____	Color, Pleo _____	☐ Other	Other _____	Vermiculite _____	Carbonate _____
	Gravimetric (NOB) PLM ☐	Detected Yes No	Biref _____	Sign _____				Other _____	Other _____
	Gravimetric (NOB) TEM ☐	Comments:				Q.C. ☐		Asbestos _____	
	POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒				SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			

2	Field No. <u>30</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required ☐	Color <u>Brown</u>	Texture <u>F</u>	Morphology _____	Extinction _____	☒ Chrysotile	<u>20</u> Cellulose	<u>15</u> Mineral Filler	Organic _____
	Recommended ☐	Homogeneity <u>Y</u>	Asbestos ☐ ☒	RI I _____	RI II _____	☐ Amosite	<u>65</u> Fiberglass	Organic Binders _____	Residue _____
	Gravimetric PREP ☐	# of Layers _____	Color of Layer _____	DS Color _____	Color, Pleo _____	☐ Other	Other _____	Vermiculite _____	Carbonate _____
	Gravimetric (NOB) PLM ☐	Detected Yes No	Biref _____	Sign _____				Other _____	Other _____
	Gravimetric (NOB) TEM ☐	Comments:				Q.C. ☒ ND/GR.		Asbestos _____	
	POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒				SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			

3	Field No. <u>31</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required ☐	Color <u>Brown</u>	Texture <u>F</u>	Morphology <u>Wavy</u>	Extinction <u>11</u>	<u>70</u> Chrysotile	<u>25</u> Cellulose	<u>20</u> Mineral Filler	Organic _____
	Recommended ☐	Homogeneity <u>Y</u>	Asbestos ☒ ☐	RI I <u>1.549</u>	RI II <u>1.556</u>	☐ Amosite	<u>55</u> Fiberglass	Organic Binders _____	Residue _____
	Gravimetric PREP ☐	# of Layers _____	Color of Layer _____	DS Color <u>B/M</u>	Color, Pleo <u>H</u>	☐ Other	Other _____	Vermiculite _____	Carbonate _____
	Gravimetric (NOB) PLM ☐	Detected Yes No	Biref <u>L</u>	Sign <u>+</u>				Other _____	Other _____
	Gravimetric (NOB) TEM ☐	Comments:				Q.C. ☐		Asbestos _____	
	POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐				SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			

4	Field No. <u>32</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required ☐	Color <u>Brown</u>	Texture <u>F</u>	Morphology <u>Wavy</u>	Extinction <u>11</u>	<u>0.5</u> Chrysotile	<u>20</u> Cellulose	<u>50</u> Mineral Filler	Organic _____
	Recommended ☐	Homogeneity <u>Y</u>	Asbestos ☒ ☐	RI I <u>1.549</u>	RI II <u>1.556</u>	☐ Amosite	<u>30</u> Fiberglass	Organic Binders _____	Residue _____
	Gravimetric PREP ☐	# of Layers _____	Color of Layer _____	DS Color <u>B/M</u>	Color, Pleo <u>H</u>	☐ Other	Other _____	Vermiculite _____	Carbonate _____
	Gravimetric (NOB) PLM ☐	Detected Yes No	Biref <u>L</u>	Sign <u>+</u>				Other _____	Other _____
	Gravimetric (NOB) TEM ☐	Comments:				Q.C. ☐		Asbestos _____	
	POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐				SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			

ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

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INCLAP 101187

ELAP 10870

Microscope OLYMP BH-2

Client / Project NYC-BOE/PS 89M, 201 WARREN ST, NY, NY 10082 Project No. 14584-0819

Analysis Date 11/02/01 Analyst E. A. C... Batch No. 19694

1	Field No. <u>33</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required ☐	Color <u>Brown</u>	Texture <u>F</u>	Morphology	Extinction	Chrysotile	Cellulose	Mineral Filler	Organic
	Recommended ☐	Homogeneity <u>Y</u>		RI I	RI II	Amosite	Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	Asbestos ☐	DS Color	Color, Pleo	Other	Other	Vermiculite	Carbonate
	Gravimetric (NOB) PLM ☐	Color of Layer	Detected Yes No	Biref	Sign			Other	Other
	Gravimetric (NOB) TEM ☐	Comments:							Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 prep. Asbestos = 0							

2	Field No.	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required ☐	Color	Texture	Morphology	Extinction	Chrysotile	Cellulose	Mineral Filler	Organic
	Recommended ☐	Homogeneity		RI I	RI II	Amosite	Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	Asbestos ☐	DS Color	Color, Pleo	Other	Other	Vermiculite	Carbonate
	Gravimetric (NOB) PLM ☐	Color of Layer	Detected Yes No	Biref	Sign			Other	Other
	Gravimetric (NOB) TEM ☐	Comments:							Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 prep. Asbestos = 0							

3	Field No.	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required ☐	Color	Texture	Morphology	Extinction	Chrysotile	Cellulose	Mineral Filler	Organic
	Recommended ☐	Homogeneity		RI I	RI II	Amosite	Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	Asbestos ☐	DS Color	Color, Pleo	Other	Other	Vermiculite	Carbonate
	Gravimetric (NOB) PLM ☐	Color of Layer	Detected Yes No	Biref	Sign			Other	Other
	Gravimetric (NOB) TEM ☐	Comments:							Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 prep. Asbestos = 0							

4	Field No.	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required ☐	Color	Texture	Morphology	Extinction	Chrysotile	Cellulose	Mineral Filler	Organic
	Recommended ☐	Homogeneity		RI I	RI II	Amosite	Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	Asbestos ☐	DS Color	Color, Pleo	Other	Other	Vermiculite	Carbonate
	Gravimetric (NOB) PLM ☐	Color of Layer	Detected Yes No	Biref	Sign			Other	Other
	Gravimetric (NOB) TEM ☐	Comments:							Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 prep. Asbestos = 0							

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