

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

HVLPAP 101187

ELAP 10070

Microscope OLVP B11-2

Client / Project

DD.C / W.F.C Lower Manhattan Project No. 17494-0134

Analysis Date

09/17/01

Analyst

mw

Batch No.

19492

Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
1 <u>3-01</u>	Color <u>Tan</u> Texture <u>F</u> Homogeneity <u>X</u> # of Layers <u>1</u> Asbestos ☒ ☐ Color of Layer <u> </u> Detected Yes ☐ No ☐ Comments:	Morphology <u>LD</u> Extinction <u>11</u> RI I <u> </u> RI II <u> </u> DS Color <u>white</u> Color, Pleo <u> </u> Biref <u>L</u> Sign <u>+</u>	<u>0.5</u> Chrysotile <u> </u> Amosite <u> </u> Other	<u>4.5</u> Cellulose <u>70</u> Fiberglass <u> </u> Other	<u>2.5</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
Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0						
2 <u>02</u>	Color <u>Tan</u> Texture <u>F</u> Homogeneity <u>X</u> # of Layers <u>1</u> Asbestos ☒ ☐ Color of Layer <u> </u> Detected Yes ☐ No ☐ Comments:	Morphology <u>LD</u> Extinction <u>11</u> RI I <u> </u> RI II <u> </u> DS Color <u>white</u> Color, Pleo <u> </u> Biref <u>L</u> Sign <u>+</u>	<u>7.1</u> Chrysotile <u> </u> Amosite <u> </u> Other	<u>5</u> Cellulose <u>70</u> Fiberglass <u> </u> Other	<u>2.5</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
Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0						
3 <u>03</u>	Color <u>Tan</u> Texture <u>F</u> Homogeneity <u>X</u> # of Layers <u>1</u> Asbestos ☐ ☒ Color of Layer <u> </u> Detected Yes ☐ No ☐ Comments:	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>	<u> </u> Chrysotile <u> </u> Amosite <u> </u> Other	<u>7.1</u> Cellulose <u>85</u> Fiberglass <u> </u> Other	<u>1.5</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
Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0						
4 <u>04</u>	Color <u>Tan</u> Texture <u>F</u> Homogeneity <u>X</u> # of Layers <u>1</u> Asbestos ☒ ☒ Color of Layer <u> </u> Detected Yes ☐ No ☐ Comments:	Morphology <u>LD</u> Extinction <u>11</u> RI I <u> </u> RI II <u> </u> DS Color <u>white</u> Color, Pleo <u> </u> Biref <u>L</u> Sign <u>+</u>	<u>2.5</u> Chrysotile <u> </u> Amosite <u> </u> Other	<u>7.5</u> Cellulose <u>82</u> Fiberglass <u> </u> Other	<u>1.0</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
Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0						

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EVLAP 101187

ELAP 10079

Microscope OLYMPUS

Client / Project

DDC / W.T.C Lower Manhattan Project No. 17494-0134

Analysis Date

09/17/01

Analyst

hms

Batch No.

19492

1	Field No. <u>05</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>Tan</u>	Texture <u>F</u>	Morphology <u>W</u>	Extinction <u>1</u>	Chrysotile <u>TR</u>	Cellulose <u>75</u>	Mineral Filler <u>15</u>	Organic <u> </u>
	Recommended ☐	Homogeneity <u>X</u>	Asbestos ☐ ☒	RI I <u> </u>	RI II <u> </u>	Amosite <u> </u>	Fiberglass <u>90</u>	Organic Binders <u> </u>	Residue <u> </u>
	Gravimetric PREP ☐	# of Layers <u>2</u>	Detected Yes ☐ No ☒	DS Color <u> </u>	Color, Pleo <u> </u>	Other <u> </u>	Other <u> </u>	Vermiculite <u> </u>	Carbonate <u> </u>
	Gravimetric (HOB) PLM ☐	Color of Layer <u> </u>	Detected Yes ☐ No ☒	Biref <u> </u>	Sign <u> </u>			Other <u> </u>	Other <u> </u>
	Gravimetric (HOB) TEM ☐	Comments:					D.C. ☐		Asbestos <u> </u>
	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. <u>06</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>Tan</u>	Texture <u>F</u>	Morphology <u>W</u>	Extinction <u>1</u>	Chrysotile <u>TR</u>	Cellulose <u>75</u>	Mineral Filler <u>15</u>	Organic <u> </u>
	Recommended ☐	Homogeneity <u>X</u>	Asbestos ☐ ☒	RI I <u> </u>	RI II <u> </u>	Amosite <u> </u>	Fiberglass <u>90</u>	Organic Binders <u> </u>	Residue <u> </u>
	Gravimetric PREP ☐	# of Layers <u>2</u>	Detected Yes ☐ No ☒	DS Color <u> </u>	Color, Pleo <u> </u>	Other <u> </u>	Other <u> </u>	Vermiculite <u> </u>	Carbonate <u> </u>
	Gravimetric (HOB) PLM ☐	Color of Layer <u> </u>	Detected Yes ☐ No ☒	Biref <u> </u>	Sign <u> </u>			Other <u> </u>	Other <u> </u>
	Gravimetric (HOB) TEM ☐	Comments:					D.C. ☐		Asbestos <u> </u>
	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. <u>07</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☒	Color <u>Tan</u>	Texture <u>F</u>	Morphology <u>W</u>	Extinction <u>1</u>	Chrysotile <u>TR</u>	Cellulose <u>15</u>	Mineral Filler <u>75</u>	Organic <u> </u>
	Recommended ☐	Homogeneity <u>X</u>	Asbestos ☒ ☐	RI I <u> </u>	RI II <u> </u>	Amosite <u> </u>	Fiberglass <u>10</u>	Organic Binders <u> </u>	Residue <u> </u>
	Gravimetric PREP ☐	# of Layers <u>2</u>	Detected Yes ☐ No ☒	DS Color <u> </u>	Color, Pleo <u> </u>	Other <u> </u>	Other <u> </u>	Vermiculite <u> </u>	Carbonate <u> </u>
	Gravimetric (HOB) PLM ☐	Color of Layer <u> </u>	Detected Yes ☐ No ☒	Biref <u> </u>	Sign <u> </u>			Other <u> </u>	Other <u> </u>
	Gravimetric (HOB) TEM ☐	Comments:					D.C. ☐		Asbestos <u> </u>
	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. <u>08</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>Tan</u>	Texture <u>F</u>	Morphology <u>W</u>	Extinction <u>1</u>	Chrysotile <u>TR</u>	Cellulose <u>75</u>	Mineral Filler <u>15</u>	Organic <u> </u>
	Recommended ☐	Homogeneity <u>X</u>	Asbestos ☐ ☒	RI I <u> </u>	RI II <u> </u>	Amosite <u> </u>	Fiberglass <u>85</u>	Organic Binders <u> </u>	Residue <u> </u>
	Gravimetric PREP ☐	# of Layers <u>2</u>	Detected Yes ☐ No ☒	DS Color <u> </u>	Color, Pleo <u> </u>	Other <u> </u>	Other <u> </u>	Vermiculite <u> </u>	Carbonate <u> </u>
	Gravimetric (HOB) PLM ☐	Color of Layer <u> </u>	Detected Yes ☐ No ☒	Biref <u> </u>	Sign <u> </u>			Other <u> </u>	Other <u> </u>
	Gravimetric (HOB) TEM ☐	Comments:					D.C. ☐		Asbestos <u> </u>
	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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HVLP AP 101187

ELAP 10079

Microscope OLTP R11.2

Client / Project

DD.C / W.T.C Lower Manhattan Project No. 17494-0134

Analysis Date

09/17/01

Analyst

lms

Batch No.

19492

1	Field No. <u>09</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>Tan</u>	Texture <u>F</u>	Morphology <u>---</u>	Extinction <u>---</u>	<u>---</u> Chrysotile	<u>75</u> Cellulose	<u>15</u> Mineral Filler	<u>---</u> Organic
	Recommended ☐	Homogeneity <u>X</u>	Asbestos ☐ ☒	RI I <u>---</u>	RI II <u>---</u>	<u>---</u> Amosite	<u>85</u> Fiberglass	<u>---</u> Organic Binders	<u>---</u> Residue
	Gravimetric PREP ☐	# of Layers <u>2</u>	Detected Yes ☐ No ☒	DS Color <u>---</u>	Color, Pleo <u>---</u>	<u>---</u> Other	<u>---</u> Other	<u>---</u> Vermiculite	<u>---</u> Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer <u>---</u>	Detected Yes ☐ No ☒	Biref <u>---</u>	Sign <u>---</u>			<u>---</u> Other	<u>---</u> Other
	Gravimetric (HOB) TEM ☐	Comments:							<u>---</u> Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP & EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps, Asbestos = 0					☐ D.C.		

2	Field No. <u>10</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>Tan</u>	Texture <u>F</u>	Morphology <u>---</u>	Extinction <u>---</u>	<u>2.4</u> Chrysotile	<u>76</u> Cellulose	<u>60</u> Mineral Filler	<u>---</u> Organic
	Recommended ☐	Homogeneity <u>X</u>	Asbestos ☒ ☐	RI I <u>---</u>	RI II <u>---</u>	<u>---</u> Amosite	<u>70</u> Fiberglass	<u>---</u> Organic Binders	<u>---</u> Residue
	Gravimetric PREP ☐	# of Layers <u>2</u>	Detected Yes ☐ No ☒	DS Color <u>---</u>	Color, Pleo <u>---</u>	<u>---</u> Other	<u>---</u> Other	<u>---</u> Vermiculite	<u>---</u> Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer <u>---</u>	Detected Yes ☐ No ☒	Biref <u>---</u>	Sign <u>---</u>			<u>---</u> Other	<u>---</u> Other
	Gravimetric (HOB) TEM ☐	Comments:							<u>---</u> Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP & EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps, Asbestos = 0					☐ D.C.		

3	Field No. <u>11</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>Tan</u>	Texture <u>F</u>	Morphology <u>---</u>	Extinction <u>---</u>	<u>---</u> Chrysotile	<u>3</u> Cellulose	<u>27</u> Mineral Filler	<u>---</u> Organic
	Recommended ☐	Homogeneity <u>4</u>	Asbestos ☐ ☒	RI I <u>---</u>	RI II <u>---</u>	<u>---</u> Amosite	<u>70</u> Fiberglass	<u>---</u> Organic Binders	<u>---</u> Residue
	Gravimetric PREP ☐	# of Layers <u>2</u>	Detected Yes ☐ No ☒	DS Color <u>---</u>	Color, Pleo <u>---</u>	<u>---</u> Other	<u>---</u> Other	<u>---</u> Vermiculite	<u>---</u> Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer <u>---</u>	Detected Yes ☐ No ☒	Biref <u>---</u>	Sign <u>---</u>			<u>---</u> Other	<u>---</u> Other
	Gravimetric (HOB) TEM ☐	Comments:							<u>---</u> Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP & EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps, Asbestos = 0					☐ D.C.		

4	Field No. <u>12</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>Tan</u>	Texture <u>F</u>	Morphology <u>---</u>	Extinction <u>---</u>	<u>---</u> Chrysotile	<u>3</u> Cellulose	<u>27</u> Mineral Filler	<u>---</u> Organic
	Recommended ☐	Homogeneity <u>4</u>	Asbestos ☐ ☒	RI I <u>---</u>	RI II <u>---</u>	<u>---</u> Amosite	<u>70</u> Fiberglass	<u>---</u> Organic Binders	<u>---</u> Residue
	Gravimetric PREP ☐	# of Layers <u>2</u>	Detected Yes ☐ No ☒	DS Color <u>---</u>	Color, Pleo <u>---</u>	<u>---</u> Other	<u>---</u> Other	<u>---</u> Vermiculite	<u>---</u> Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer <u>---</u>	Detected Yes ☐ No ☒	Biref <u>---</u>	Sign <u>---</u>			<u>---</u> Other	<u>---</u> Other
	Gravimetric (HOB) TEM ☐	Comments:							<u>---</u> Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP & EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps, Asbestos = 0					☐ D.C.		

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HVLP 101117

ELAP 10079

Microscope OLVP R112

Client / Project

DDC / W.T.C Lower Manhattan Project No. 17494-0134

Analysis Date

09/17/01

Analyst

June S

Batch No.

19492

Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
1 <u>13</u>	Color <u>white</u> Texture <u>Fin</u> Homogeneity <u>4</u> # of Layers <u>4</u> Asbestos ☐ ☒ Color of Layer <u> </u> Detected Yes ☐ No ☐ Comments:	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 <u> </u> Amosite <u> </u> Other <u> </u>	Cellulose <u>76</u> Fiberglass <u> </u> Other <u> </u>	Mineral Filler <u>24</u> Organic Binders <u> </u> Vermiculite <u> </u> Other <u> </u>	Organic <u> </u> Residue <u> </u> Carbonate <u> </u> Other <u> </u> Asbestos <u> </u>
POINT COUNT RESULTS ON THE BACK Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			O.C. ☐			
2 <u>14</u>	Color <u>white</u> Texture <u>Fin</u> Homogeneity <u>4</u> # of Layers <u>4</u> Asbestos ☒ ☐ Color of Layer <u> </u> Detected Yes ☐ No ☐ Comments:	Morphology <u>W</u> Extinction <u>11</u> RI I <u>1.548</u> RI II <u>1.555</u> DS Color <u> </u> Color, Pleo <u>ce</u> Biref <u> </u> Sign <u> </u>	Chrysotile <u>0.75</u> Amosite <u> </u> Other <u> </u>	Cellulose <u>3.25</u> Fiberglass <u>71</u> Other <u> </u>	Mineral Filler <u>25</u> Organic Binders <u> </u> Vermiculite <u> </u> Other <u> </u>	Organic <u> </u> Residue <u> </u> Carbonate <u> </u> Other <u> </u> Asbestos <u> </u>
POINT COUNT RESULTS ON THE BACK Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			O.C. ☐			
3 <u>15</u>	Color <u>white</u> Texture <u>Fin</u> Homogeneity <u>4</u> # of Layers <u>4</u> Asbestos ☐ ☒ Color of Layer <u> </u> Detected Yes ☐ No ☐ Comments:	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 <u> </u> Amosite <u> </u> Other <u> </u>	Cellulose <u>3</u> Fiberglass <u>76</u> Other <u> </u>	Mineral Filler <u>21</u> Organic Binders <u> </u> Vermiculite <u> </u> Other <u> </u>	Organic <u> </u> Residue <u> </u> Carbonate <u> </u> Other <u> </u> Asbestos <u> </u>
POINT COUNT RESULTS ON THE BACK Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			O.C. ☐			
4 <u>16</u>	Color <u>white</u> Texture <u>Fin</u> Homogeneity <u>4</u> # of Layers <u>4</u> Asbestos ☐ ☒ Color of Layer <u> </u> Detected Yes ☐ No ☐ Comments:	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 <u> </u> Amosite <u> </u> Other <u> </u>	Cellulose <u>24</u> Fiberglass <u>74</u> Other <u> </u>	Mineral Filler <u>24</u> Organic Binders <u> </u> Vermiculite <u> </u> Other <u> </u>	Organic <u> </u> Residue <u> </u> Carbonate <u> </u> Other <u> </u> Asbestos <u> </u>
POINT COUNT RESULTS ON THE BACK Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0			O.C. ☐			

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ELAP 10079

Microscope OLTF III.2

Client / Project

DDC / W.F.C. Lower Manhattan Project No. 17494-0134

Analysis Date

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Analyst

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Batch No.

19492

1	Field No. <u>17</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>white</u>	Texture <u>fu</u>	Morphology <u> </u>	Extinction <u> </u>	<u> </u> Chrysotile	<u> </u> Cellulose	<u>26</u> Mineral Filler	<u> </u> Organic
	Recommended ☐	Homogeneity <u>4</u>	Asbestos ☐ ☒	RI I <u> </u>	RI II <u> </u>	<u> </u> Amosite	<u>74</u> Fiberglass	<u> </u> Organic Binders	<u> </u> Residue
	Gravimetric PREP ☐	# of Layers <u>4</u>	Detected Yes ☐ No ☒	DS Color <u> </u>	Color, Pleo <u> </u>	<u> </u> Other	<u> </u> Other	<u> </u> Vermiculite	<u> </u> Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer <u> </u>	Detected Yes ☐ No ☒	Biref <u> </u>	Sign <u> </u>	<u> </u> Other	<u> </u> Other	<u> </u> Other	<u> </u> Other
	Gravimetric (HOB) TEM ☐	Comments:				D.C. ☐		<u> </u> 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>18</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>white</u>	Texture <u>fu</u>	Morphology <u> </u>	Extinction <u> </u>	<u> </u> Chrysotile	<u> </u> Cellulose	<u>26</u> Mineral Filler	<u> </u> Organic
	Recommended ☐	Homogeneity <u>4</u>	Asbestos ☐ ☒	RI I <u> </u>	RI II <u> </u>	<u> </u> Amosite	<u>74</u> Fiberglass	<u> </u> Organic Binders	<u> </u> Residue
	Gravimetric PREP ☐	# of Layers <u>4</u>	Detected Yes ☐ No ☒	DS Color <u> </u>	Color, Pleo <u> </u>	<u> </u> Other	<u> </u> Other	<u> </u> Vermiculite	<u> </u> Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer <u> </u>	Detected Yes ☐ No ☒	Biref <u> </u>	Sign <u> </u>	<u> </u> Other	<u> </u> Other	<u> </u> Other	<u> </u> Other
	Gravimetric (HOB) TEM ☐	Comments:				D.C. ☐		<u> </u> 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>19</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>white</u>	Texture <u>fu</u>	Morphology <u> </u>	Extinction <u> </u>	<u> </u> Chrysotile	<u> </u> Cellulose	<u>27</u> Mineral Filler	<u> </u> Organic
	Recommended ☐	Homogeneity <u>4</u>	Asbestos ☐ ☒	RI I <u> </u>	RI II <u> </u>	<u> </u> Amosite	<u>73</u> Fiberglass	<u> </u> Organic Binders	<u> </u> Residue
	Gravimetric PREP ☐	# of Layers <u>4</u>	Detected Yes ☐ No ☒	DS Color <u> </u>	Color, Pleo <u> </u>	<u> </u> Other	<u> </u> Other	<u> </u> Vermiculite	<u> </u> Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer <u> </u>	Detected Yes ☐ No ☒	Biref <u> </u>	Sign <u> </u>	<u> </u> Other	<u> </u> Other	<u> </u> Other	<u> </u> Other
	Gravimetric (HOB) TEM ☐	Comments:				D.C. ☐		<u> </u> 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>20</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>white</u>	Texture <u>fu</u>	Morphology <u> </u>	Extinction <u> </u>	<u> </u> Chrysotile	<u> </u> Cellulose	<u>23</u> Mineral Filler	<u> </u> Organic
	Recommended ☐	Homogeneity <u>4</u>	Asbestos ☐ ☒	RI I <u> </u>	RI II <u> </u>	<u> </u> Amosite	<u>77</u> Fiberglass	<u> </u> Organic Binders	<u> </u> Residue
	Gravimetric PREP ☐	# of Layers <u>4</u>	Detected Yes ☐ No ☒	DS Color <u> </u>	Color, Pleo <u> </u>	<u> </u> Other	<u> </u> Other	<u> </u> Vermiculite	<u> </u> Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer <u> </u>	Detected Yes ☐ No ☒	Biref <u> </u>	Sign <u> </u>	<u> </u> Other	<u> </u> Other	<u> </u> Other	<u> </u> Other
	Gravimetric (HOB) TEM ☐	Comments:				D.C. ☐		<u> </u> 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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EVLAP 100187

ELAP 10079

Microscope OLMP 011-2

Client / Project

DDC / W.P.C Lower Manhattan Project No. 17494-0134

Analysis Date

09/17/01

Analyst

ML

Batch No.

19492

Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
21	Color <u>tan</u> Texture <u>F</u> Homogeneity <u>tan</u> # of Layers <u>1</u> Asbestos ☐ ☒ No Color of Layer <u>tan</u> Detected Yes ☐ No ☒ Comments:	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 <u> </u> Amosite <u> </u> Other <u> </u>	Cellulose <u> </u> Fiberglass <u> </u> Other <u> </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 <u> </u>
Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 prep. Asbestos = 0			D.C. ☐			
22	Color <u>tan</u> Texture <u>F</u> Homogeneity <u>tan</u> # of Layers <u>1</u> Asbestos ☐ ☒ No Color of Layer <u>tan</u> Detected Yes ☐ No ☒ Comments:	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 <u> </u> Amosite <u> </u> Other <u> </u>	Cellulose <u> </u> Fiberglass <u> </u> Other <u> </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 <u> </u>
Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 prep. Asbestos = 0			D.C. ☐			
23	Color <u>tan</u> Texture <u>F</u> Homogeneity <u>tan</u> # of Layers <u>1</u> Asbestos ☐ ☒ No Color of Layer <u>tan</u> Detected Yes ☐ No ☒ Comments:	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 <u> </u> Amosite <u> </u> Other <u> </u>	Cellulose <u> </u> Fiberglass <u> </u> Other <u> </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 <u> </u>
Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 prep. Asbestos = 0			D.C. ☐			
24	Color <u>tan</u> Texture <u>F</u> Homogeneity <u>tan</u> # of Layers <u>1</u> Asbestos ☐ ☐ Color of Layer <u>tan</u> Detected Yes ☐ No ☐ Comments:	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 <u> </u> Amosite <u> </u> Other <u> </u>	Cellulose <u> </u> Fiberglass <u> </u> Other <u> </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 <u> </u>
Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 prep. Asbestos = 0			D.C. ☐			

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NYLAP 101187

ELAP 10079

Microscope OLTF 0102

Client / Project DD.C / W.P.C Lower Manhattan Project No. 17494-0134Analysis Date 09/17/01 Analyst ML Batch No. 19492

1	Field No. <u>25</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>tan</u>	Texture <u>F</u>	Morphology <u> </u>	Extinction <u> </u>	<u> </u> Chrysotile	<u> </u> Cellulose	<u>10</u> Mineral Filler	<u> </u> Organic
	Recommended ☐	Homogeneity <u> </u>	Asbestos ☐ ☒	RI I <u> </u>	RI II <u> </u>	<u> </u> Amosite	<u>40</u> Fiberglass	<u> </u> Organic Binders	<u> </u> Residue
	Gravimetric PREP ☐	# of Layers <u> </u>	Detected Yes ☐ No ☒	DS Color <u> </u>	Color, Pleo <u> </u>	<u> </u> Other	<u> </u> Other	<u> </u> Vermiculite	<u> </u> Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer <u> </u>	Detected Yes ☐ No ☒	Biref <u> </u>	Sign <u> </u>	<u> </u>	<u> </u>	<u> </u> Other	<u> </u> Other
	Gravimetric (HOB) TEM ☐	Comments: <u> </u>				D.C. ☐		<u> </u> 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>26</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>tan</u>	Texture <u>F</u>	Morphology <u> </u>	Extinction <u> </u>	<u> </u> Chrysotile	<u> </u> Cellulose	<u>10</u> Mineral Filler	<u> </u> Organic
	Recommended ☐	Homogeneity <u> </u>	Asbestos ☐ ☒	RI I <u> </u>	RI II <u> </u>	<u> </u> Amosite	<u>40</u> Fiberglass	<u> </u> Organic Binders	<u> </u> Residue
	Gravimetric PREP ☐	# of Layers <u> </u>	Detected Yes ☐ No ☒	DS Color <u> </u>	Color, Pleo <u> </u>	<u> </u> Other	<u> </u> Other	<u> </u> Vermiculite	<u> </u> Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer <u> </u>	Detected Yes ☐ No ☒	Biref <u> </u>	Sign <u> </u>	<u> </u>	<u> </u>	<u> </u> Other	<u> </u> Other
	Gravimetric (HOB) TEM ☐	Comments: <u> </u>				D.C. ☐		<u> </u> 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>27</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>tan</u>	Texture <u>F</u>	Morphology <u> </u>	Extinction <u> </u>	<u> </u> Chrysotile	<u>40</u> Cellulose	<u>10</u> Mineral Filler	<u> </u> Organic
	Recommended ☐	Homogeneity <u> </u>	Asbestos ☐ ☒	RI I <u> </u>	RI II <u> </u>	<u> </u> Amosite	<u> </u> Fiberglass	<u> </u> Organic Binders	<u> </u> Residue
	Gravimetric PREP ☐	# of Layers <u> </u>	Detected Yes ☐ No ☒	DS Color <u> </u>	Color, Pleo <u> </u>	<u> </u> Other	<u> </u> Other	<u> </u> Vermiculite	<u> </u> Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer <u> </u>	Detected Yes ☐ No ☒	Biref <u> </u>	Sign <u> </u>	<u> </u>	<u> </u>	<u> </u> Other	<u> </u> Other
	Gravimetric (HOB) TEM ☐	Comments: <u> </u>				D.C. ☐		<u> </u> 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>28</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>tan</u>	Texture <u>F</u>	Morphology <u> </u>	Extinction <u> </u>	<u> </u> Chrysotile	<u>10</u> Cellulose	<u>10</u> Mineral Filler	<u> </u> Organic
	Recommended ☐	Homogeneity <u> </u>	Asbestos ☐ ☒	RI I <u> </u>	RI II <u> </u>	<u> </u> Amosite	<u> </u> Fiberglass	<u> </u> Organic Binders	<u> </u> Residue
	Gravimetric PREP ☐	# of Layers <u> </u>	Detected Yes ☐ No ☒	DS Color <u> </u>	Color, Pleo <u> </u>	<u> </u> Other	<u> </u> Other	<u> </u> Vermiculite	<u> </u> Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer <u> </u>	Detected Yes ☐ No ☒	Biref <u> </u>	Sign <u> </u>	<u> </u>	<u> </u>	<u> </u> Other	<u> </u> Other
	Gravimetric (HOB) TEM ☐	Comments: <u> </u>				D.C. ☐		<u> </u> 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 101181

ELAP 10079

Microscope OLTP 0012

Client / Project

DDC / W.F.C Lower Manhattan Project No. 17494-0134

Analysis Date

09/17/01

Analyst

ML

Batch No.

19492

1	Field No. <u>29</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>gray</u>	Texture <u>F</u>	Morphology <u> </u>	Extinction <u> </u>	<u> </u> Chrysotile	<u>5</u> Cellulose	<u>5</u> Mineral Filler	<u> </u> Organic
	Recommended ☐	Homogeneity <u> </u>	<u> </u>	RI I <u> </u>	RI II <u> </u>	<u> </u> Amosite	<u>90</u> Fiberglass	<u> </u> Organic Binders	<u> </u> Residue
	Gravimetric PREP ☐	# of Layers <u> </u>	Asbestos ☐ ☒	DS Color <u> </u>	Color/Pleo <u> </u>	<u> </u> Other	<u> </u> Other	<u> </u> Vermiculite	<u> </u> Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer <u> </u>	Detected Yes <u> </u> No <u> </u>	Biref <u> </u>	Sign <u> </u>			<u> </u> Other	<u> </u> Other
	Gravimetric (HOB) TEM ☐	Comments: <u> </u>					D.C. ☐		<u> </u> 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 (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>gray</u>	Texture <u>F</u>	Morphology <u> </u>	Extinction <u> </u>	<u> </u> Chrysotile	<u>5</u> Cellulose	<u>5</u> Mineral Filler	<u> </u> Organic
	Recommended ☐	Homogeneity <u> </u>	<u> </u>	RI I <u> </u>	RI II <u> </u>	<u> </u> Amosite	<u>90</u> Fiberglass	<u> </u> Organic Binders	<u> </u> Residue
	Gravimetric PREP ☐	# of Layers <u> </u>	Asbestos ☐ ☒	DS Color <u> </u>	Color/Pleo <u> </u>	<u> </u> Other	<u> </u> Other	<u> </u> Vermiculite	<u> </u> Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer <u> </u>	Detected Yes <u> </u> No <u> </u>	Biref <u> </u>	Sign <u> </u>			<u> </u> Other	<u> </u> Other
	Gravimetric (HOB) TEM ☐	Comments: <u> </u>					D.C. ☐		<u> </u> 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.	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u> </u>	Texture <u> </u>	Morphology <u> </u>	Extinction <u> </u>	<u> </u> Chrysotile	<u> </u> Cellulose	<u> </u> Mineral Filler	<u> </u> Organic
	Recommended ☐	Homogeneity <u> </u>	<u> </u>	RI I <u> </u>	RI II <u> </u>	<u> </u> Amosite	<u> </u> Fiberglass	<u> </u> Organic Binders	<u> </u> Residue
	Gravimetric PREP ☐	# of Layers <u> </u>	Asbestos ☐ ☐	DS Color <u> </u>	Color/Pleo <u> </u>	<u> </u> Other	<u> </u> Other	<u> </u> Vermiculite	<u> </u> Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer <u> </u>	Detected Yes <u> </u> No <u> </u>	Biref <u> </u>	Sign <u> </u>			<u> </u> Other	<u> </u> Other
	Gravimetric (HOB) TEM ☐	Comments: <u> </u>					D.C. ☐		<u> </u> 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.	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u> </u>	Texture <u> </u>	Morphology <u> </u>	Extinction <u> </u>	<u> </u> Chrysotile	<u> </u> Cellulose	<u> </u> Mineral Filler	<u> </u> Organic
	Recommended ☐	Homogeneity <u> </u>	<u> </u>	RI I <u> </u>	RI II <u> </u>	<u> </u> Amosite	<u> </u> Fiberglass	<u> </u> Organic Binders	<u> </u> Residue
	Gravimetric PREP ☐	# of Layers <u> </u>	Asbestos ☐ ☐	DS Color <u> </u>	Color/Pleo <u> </u>	<u> </u> Other	<u> </u> Other	<u> </u> Vermiculite	<u> </u> Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer <u> </u>	Detected Yes <u> </u> No <u> </u>	Biref <u> </u>	Sign <u> </u>			<u> </u> Other	<u> </u> Other
	Gravimetric (HOB) TEM ☐	Comments: <u> </u>					D.C. ☐		<u> </u> Asbestos
POINT COUNT RESULTS ON THE BACK		Method: ☐ ELAP & EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0							