

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

HVLAP 101107

ELAP 10070

Microscope OLYMP BH-2

Client / Project NYC-DOE / StuyvesantProject No. 19125-024EAnalysis Date 5/22/12 Analyst Y. RegeBatch No. 20412

1	Field No. <u>01</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
Gravimetric (HOB) Required ☐		Color <u>Grey</u>	Texture <u>Fn</u>	Morphology <u>RI I</u>	Extinction <u>RI II</u>	<u>Chrysotile</u>	<u>45</u> Cellulose	<u>5</u> Mineral Filler	Organic
Recommended ☐		Homogeneity <u>40</u>	Asbestos ☐ ☒	DS Color	Color, Pleo	<u>Amosite</u>	Fiberglass	Organic Binders	Residue
Gravimetric PREP ☐		# of Layers	Detected Yes No	Biref	Sign	<u>Other</u>	Other	Vermiculite	Carbonate
Gravimetric (HOB) PLM ☐		Color of Layer						Other	Other
Gravimetric (HOB) 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		D.C. ☐			

2	Field No. <u>02</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
Gravimetric (HOB) Required ☐		Color <u>Grey</u>	Texture <u>Fn</u>	Morphology <u>RI I</u>	Extinction <u>RI II</u>	<u>Chrysotile</u>	<u>45</u> Cellulose	<u>5</u> Mineral Filler	Organic
Recommended ☐		Homogeneity <u>40</u>	Asbestos ☐ ☒	DS Color	Color, Pleo	<u>Amosite</u>	Fiberglass	Organic Binders	Residue
Gravimetric PREP ☐		# of Layers	Detected Yes No	Biref	Sign	<u>Other</u>	Other	Vermiculite	Carbonate
Gravimetric (HOB) PLM ☐		Color of Layer						Other	Other
Gravimetric (HOB) 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		D.C. ☐			

3	Field No. <u>03</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
Gravimetric (HOB) Required ☐		Color <u>Grey</u>	Texture <u>Fn</u>	Morphology <u>RI I</u>	Extinction <u>RI II</u>	<u>Chrysotile</u>	<u>47</u> Cellulose	<u>3</u> Mineral Filler	Organic
Recommended ☐		Homogeneity <u>40</u>	Asbestos ☐ ☒	DS Color	Color, Pleo	<u>Amosite</u>	Fiberglass	Organic Binders	Residue
Gravimetric PREP ☐		# of Layers	Detected Yes No	Biref	Sign	<u>Other</u>	Other	Vermiculite	Carbonate
Gravimetric (HOB) PLM ☐		Color of Layer						Other	Other
Gravimetric (HOB) 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		D.C. ☐			

4	Field No. <u>04</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
Gravimetric (HOB) Required ☐		Color <u>Grey</u>	Texture <u>Fn</u>	Morphology <u>RI I</u>	Extinction <u>RI II</u>	<u>Chrysotile</u>	<u>48</u> Cellulose	<u>2</u> Mineral Filler	Organic
Recommended ☐		Homogeneity <u>40</u>	Asbestos ☐ ☒	DS Color	Color, Pleo	<u>Amosite</u>	Fiberglass	Organic Binders	Residue
Gravimetric PREP ☐		# of Layers	Detected Yes No	Biref	Sign	<u>Other</u>	Other	Vermiculite	Carbonate
Gravimetric (HOB) PLM ☐		Color of Layer						Other	Other
Gravimetric (HOB) 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		D.C. ☐			

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

CONFIDENTIAL,

CITY_21MC100_003390215

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 101107

ELAP 10079

Microscope OLYMP BH-2

Client / Project NYC - BOE / SteyerweantProject No. 19125-0246Analysis Date 5/22/2Analyst Y ReyeBatch No. 20412

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>Grey</u>	Texture <u>FR</u>	Morphology	Extinction	☒ Chrysotile	<u>97</u> Cellulose	<u>3</u> Mineral Filler	☐ Organic
	Recommended ☐	Homogeneity <u>Y</u>		RI I	RI II	☒ Amphibole	Fiberglass	Organic Binders	☐ Residue
	Gravimetric PREP ☐	# of Layers <u>1</u>	Asbestos ☐ ☒	DS Color	Color, Pleo	☒ Other	Other	Vermiculite	☐ Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer	Detected Yes No	Biref	Sign			Other	☐ Other
	Gravimetric (HOB) 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. <u>06</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>Grey</u>	Texture <u>FR</u>	Morphology	Extinction	☒ Chrysotile	<u>97</u> Cellulose	<u>3</u> Mineral Filler	☐ Organic
	Recommended ☐	Homogeneity <u>Y</u>		RI I	RI II	☒ Amphibole	Fiberglass	Organic Binders	☐ Residue
	Gravimetric PREP ☐	# of Layers <u>1</u>	Asbestos ☐ ☒	DS Color	Color, Pleo	☒ Other	Other	Vermiculite	☐ Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer	Detected Yes No	Biref	Sign			Other	☐ Other
	Gravimetric (HOB) 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. <u>07</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>Grey</u>	Texture <u>FR</u>	Morphology	Extinction	☒ Chrysotile	<u>98</u> Cellulose	<u>2</u> Mineral Filler	☐ Organic
	Recommended ☐	Homogeneity <u>Y</u>		RI I	RI II	☒ Amphibole	Fiberglass	Organic Binders	☐ Residue
	Gravimetric PREP ☐	# of Layers <u>1</u>	Asbestos ☐ ☒	DS Color	Color, Pleo	☒ Other	Other	Vermiculite	☐ Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer	Detected Yes No	Biref	Sign			Other	☐ Other
	Gravimetric (HOB) 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. <u>08</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>Grey</u>	Texture <u>FR</u>	Morphology	Extinction	☒ Chrysotile	<u>97</u> Cellulose	<u>3</u> Mineral Filler	☐ Organic
	Recommended ☐	Homogeneity <u>Y</u>		RI I	RI II	☒ Amphibole	Fiberglass	Organic Binders	☐ Residue
	Gravimetric PREP ☐	# of Layers <u>1</u>	Asbestos ☐ ☒	DS Color	Color, Pleo	☒ Other	Other	Vermiculite	☐ Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer	Detected Yes No	Biref	Sign			Other	☐ Other
	Gravimetric (HOB) 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	

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

CONFIDENTIAL,

CITY_21MC100_003390216

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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 / Stuyvesant

Project No.

19125-0246

Analysis Date

5/22/12

Analyst

4Reye

Batch No.

20112

1	Field No. <u>09</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required ☐	Color <u>Grey</u>	Texture <u>Fn</u>	Morphology	Extinction	<u>Chrysotile</u>	<u>98</u> Cellulose	<u>2</u> Mineral Filler	Organic
	Recommended ☐	Homogeneity <u>Y</u>	# of Layers <u>1</u>	RI I	RI II	<u>Anosite</u>	Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	Asbestos ☐ ☒	DS Color	Color, Pleo		<u>Other</u>	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				D.C. ☐			

2	Field No. <u>10</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required ☐	Color <u>Grey</u>	Texture <u>Fn</u>	Morphology	Extinction	<u>Chrysotile</u>	<u>97</u> Cellulose	<u>3</u> Mineral Filler	Organic
	Recommended ☐	Homogeneity <u>Y</u>	# of Layers <u>1</u>	RI I	RI II	<u>Anosite</u>	Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	Asbestos ☐ ☒	DS Color	Color, Pleo		<u>Other</u>	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				D.C. ☐			

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	<u>Chrysotile</u>	<u>Cellulose</u>	<u>Mineral Filler</u>	Organic
	Recommended ☐	Homogeneity	# of Layers	RI I	RI II	<u>Anosite</u>	Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	Asbestos ☐ ☐	DS Color	Color, Pleo		<u>Other</u>	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				D.C. ☐			

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	<u>Chrysotile</u>	<u>Cellulose</u>	<u>Mineral Filler</u>	Organic
	Recommended ☐	Homogeneity	# of Layers	RI I	RI II	<u>Anosite</u>	Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	Asbestos ☐ ☐	DS Color	Color, Pleo		<u>Other</u>	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				D.C. ☐			

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

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CITY_21MC100_003390217