NYC 9/11 Public Portal Document

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 OLYP BH-2

Client / Project BOE/292 Greenwich/PS234M Project No. 14584-6823

Analysis Date 4/20/02 Analyst Monica Batch No. 20288

#	Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1	01	Color Tan; Texture Granular; Homogenity No; # of Layers No; Asbestos ☐ ☒; Color of Layer —; Detected Yes No; Comments:	Morphology —; Extinction —; RI ∥ —; RI ⊥ —; DS Color —; Color,Pleo —; Biref —; Sign —	Chrysotile —; Amosite —; Other —	Cellulose TR; Fiberglass —; Other —	Mineral Filler 100; Organic Binders —; Vermiculite —; Other —	Organic —; Residue —; Carbonate —; Other —; Asbestos —
2	02	Color Tan; Texture Granular; Homogenity No; # of Layers No; Asbestos ☐ ☒; Color of Layer —; Detected Yes No; Comments:	Morphology —; Extinction —; RI ∥ —; RI ⊥ —; DS Color —; Color,Pleo —; Biref —; Sign —	Chrysotile —; Amosite —; Other —	Cellulose TR; Fiberglass —; Other —	Mineral Filler 100; Organic Binders —; Vermiculite —; Other —	Organic —; Residue —; Carbonate —; Other —; Asbestos —
3	03	Color Tan; Texture Granular; Homogenity No; # of Layers No; Asbestos ☐ ☒; Color of Layer —; Detected Yes No; Comments:	Morphology —; Extinction —; RI ∥ —; RI ⊥ —; DS Color —; Color,Pleo —; Biref —; Sign —	Chrysotile —; Amosite —; Other —	Cellulose TR; Fiberglass —; Other —	Mineral Filler 100; Organic Binders —; Vermiculite —; Other —	Organic —; Residue —; Carbonate —; Other —; Asbestos —
4	04	Color Tan; Texture Granular; Homogenity No; # of Layers No; Asbestos ☐ ☒; Color of Layer —; Detected Yes No; Comments:	Morphology —; Extinction —; RI ∥ —; RI ⊥ —; DS Color —; Color,Pleo —; Biref —; Sign —	Chrysotile —; Amosite —; Other —	Cellulose TR; Fiberglass —; Other —	Mineral Filler 100; 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

Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0

Q.C. ☐

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008 CONFIDENTIAL, CITY_21MC100_003388021

NYC-WTC_000410019

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NVLAP 101187
ELAP 10879
Microscope OLYP BH-2

Client / Project BOE/292 Greenwich/PS234M1 Project No. _____

Analysis Date 4/20/02 Analyst Monica Batch No. 20288

1 Field No. 05	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan Texture Granular	Morphology ____ Extinction ____	____ Chrysotile	5 Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity U	RI ∥ ____ RI ⊥ ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers NO 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:			Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☒ OTHER	☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0				

2 Field No. 06	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan Texture Granular	Morphology ____ Extinction ____	____ Chrysotile	5 Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity U	RI ∥ ____ RI ⊥ ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers NO 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:			Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER	☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0				

3 Field No. 07	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan Texture Granular	Morphology ____ Extinction ____	____ Chrysotile	5 Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity U	RI ∥ ____ RI ⊥ ____	____ 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:			Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER	☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0				

4 Field No. 08	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan Texture Granular	Morphology ____ Extinction ____	____ Chrysotile	5 Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity U	RI ∥ ____ RI ⊥ ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers NO 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:			Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER	☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0				

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008 CONFIDENTIAL, CITY_21MC100_000388022

NYC-WTC_000410020

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NVLAP 101187
ELAP 10870
Microscope OLYP BH-2

Client / Project BOE/292 Greenwich/PS234M1 Project No. _____

Analysis Date 4/20/02 Analyst Monica Batch No. 20284

1 Field No. 09	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan Texture Granular	Morphology ____ Extinction ____	____ Chrysotile	70 Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity 4	RI ∥ ____ RI ⊥ ____	____ 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:			Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER	☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0				

2 Field No. 10	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan Texture Granular	Morphology ____ Extinction ____	____ Chrysotile	70 Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity 4	RI ∥ ____ RI ⊥ ____	____ 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:			Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER	☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0				

3 Field No. 11	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan Texture Granular	Morphology ____ Extinction ____	____ Chrysotile	70 Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity 4	RI ∥ ____ RI ⊥ ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers NU 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:			Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER	☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0				

4 Field No. 12	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan Texture Granular	Morphology ____ Extinction ____	____ Chrysotile	70 Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity 4	RI ∥ ____ RI ⊥ ____	____ 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:			Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER	☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0				

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008 CONFIDENTIAL, CITY_21MC100_003388023

NYC-WTC_000410021

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NVLAP 101187
ELAP 10870
Microscope OLYP BH-2

Client / Project BOE/292 Greenwich/PS 234M Project No. _____

Analysis Date 4/20/02 Analyst MLoucas Batch No. 20288

1 Field No. 13	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan Texture Granular	Morphology ____ Extinction ____	____ Chrysotile	TV Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ 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:			Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

2 Field No. 14	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan Texture Granular	Morphology ____ Extinction ____	____ Chrysotile	TV Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ 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:			Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

3 Field No. 15	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan Texture Granular	Morphology ____ Extinction ____	____ Chrysotile	TV Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ 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:			Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

4 Field No. 16	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan Texture Granular	Morphology ____ Extinction ____	____ Chrysotile	TV Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ 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:			Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008 CONFIDENTIAL, CITY_21MC100_00338024

NYC-WTC_000410022

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NVLAP 101187
ELAP 10879
Microscope OLYP BH-2

Client / Project BOE/292 Greenwich/PS234M1 Project No. _____

Analysis Date 4/20/02 Analyst Monica Batch No. 20285

1 Field No. 17	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan	Texture Granular	Morphology ____	Extinction ____	____ Chrysotile	____ Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity ____		RI ǁ ____	RI ⊥ ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers MD	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:					Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER	☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0						

2 Field No. 18	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan	Texture Granular	Morphology ____	Extinction ____	____ Chrysotile	IV Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity ____		RI ǁ ____	RI ⊥ ____	____ 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:					Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER	☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0						

3 Field No. 19	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan	Texture Granular	Morphology ____	Extinction ____	____ Chrysotile	IV Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity ____		RI ǁ ____	RI ⊥ ____	____ 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:					Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER	☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0						

4 Field No. 20	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan	Texture Granular	Morphology ____	Extinction ____	____ Chrysotile	V Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity ____		RI ǁ ____	RI ⊥ ____	____ 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:					Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER	☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0						

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008 CONFIDENTIAL, CITY_21MC100_000388025

NYC-WTC_000410023

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ELAP 10878
Microscope OLYP BH-2

Client / Project BOE/292 Greenwich/PS 234M1 Project No. _____

Analysis Date 4/20/02 Analyst Monica Batch No. 20284

1 Field No. 21	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan Texture granular	Morphology ____ Extinction ____	____ Chrysotile	____ Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers NO 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:			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. 22	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan Texture granular	Morphology ____ Extinction ____	____ Chrysotile	____ Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers NO 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:			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					

3 Field No. 23	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan Texture granular	Morphology ____ Extinction ____	____ Chrysotile	____ Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers NO 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:			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. 24	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan Texture granular	Morphology ____ Extinction ____	____ Chrysotile	____ Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ 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:			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					

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008 CONFIDENTIAL, CITY_21MC100_00338802

NYC-WTC_000410024

NYC 9/11 Public Portal Document

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 OLYP BH-2

Client / Project BOE/292 Greenwich/PS234M1 Project No. _____

Analysis Date 4/20/02 Analyst Monica Batch No. 20288

1 Field No. 25	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan	Texture Granular	Morphology ____	Extinction ____	____ Chrysotile	____ Cellulose	10 Mineral Filler	____ Organic
Recommended ☐	Homogenity Y		RI ∥ ____	RI ⊥ ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers NO	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:					Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0							

2 Field No. 26	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan	Texture Granular	Morphology ____	Extinction ____	____ Chrysotile	____ Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity Y		RI ∥ ____	RI ⊥ ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers NO	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:					Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0							

3 Field No. 27	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan	Texture Granular	Morphology ____	Extinction ____	____ Chrysotile	____ Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity Y		RI ∥ ____	RI ⊥ ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers NO	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:					Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☐ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0							

4 Field No. 28	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan	Texture Granular	Morphology ____	Extinction ____	____ Chrysotile	____ Cellulose	10 Mineral Filler	____ Organic
Recommended ☐	Homogenity Y		RI ∥ ____	RI ⊥ ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers NO	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:					Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☐ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0							

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008 CONFIDENTIAL,
CITY_21MC100_003388027

NYC-WTC_000410025

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NVLAP 101187
ELAP 10879
Microscope OLYP BH-2

Client / Project BOE/292 Greenwich/PS234M1 Project No. _____

Analysis Date 4/20/02 Analyst MLouca Batch No. 20284

1 Field No. 29	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan	Texture Granular	Morphology ____	Extinction ____	____ Chrysotile	____ Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity Yes	RI ∥ ____	RI ⊥ ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers 1	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:				Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER	☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0				

2 Field No. 30	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan	Texture Granular	Morphology ____	Extinction ____	____ Chrysotile	____ Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity Yes	RI ∥ ____	RI ⊥ ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers 1	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:				Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER	☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0				

3 Field No. 31	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan	Texture Granular	Morphology ____	Extinction ____	/ Chrysotile	____ Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity Yes	RI ∥ ____	RI ⊥ ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers NO	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:				Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER	☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0				

4 Field No. 32	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan	Texture Granular	Morphology ____	Extinction ____	/ Chrysotile	____ Cellulose	100 Mineral Filler	____ Organic
Recommended ☐	Homogenity Yes	RI ∥ ____	RI ⊥ ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers NO	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:				Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER	☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0				

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008 CONFIDENTIAL,
CITY_21MC100_003388028

NYC-WTC_000410026

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ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

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NVLAP 101187
ELAP 10879
Microscope OLYP BH-2

Client / Project BOE/292 Greenwich/PS234M Project No. _____

Analysis Date 4/20/02 Analyst Monica Batch No. 20284

1 Field No. 33	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan Texture Granular	Morphology ____ Extinction ____	____ Chrysotile	X Cellulose	10 Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ 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:			Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☐ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. 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 ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ 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:			Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☐ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. 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 ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ 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:			Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☐ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. 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 ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ 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:			Q.C. ☐		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☐ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

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