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 - 3509 or 8306

NVLAP 101187
ELAP 10870
Microscope (PLM) BH-2

Client / Project BOE/MS33/100 Trinity Place

Project No 14584-086

Analysis Date 3/30/01 Analyst JM

Batch No 20210

| # | Field No. | Stereoscopic Exam | PLM Optical Properties | Asbestos Results PLM % | Other Fibrous % | Non Fibrous % | Gravimetric (NOB) Results % |
|---|---|---|---|---|---|---|---|
| 1 | 1 | Color tan; Texture grain; Homogeneity 4; # of Layers 4; Asbestos ☐ ☐; Color of Layer —; Detected Yes No; Comments: | Morphology —; Extinction —; RI I —; RI II —; DS Color —; Color,Pleo —; Biref —; Sign —; Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ other ☑ SCANNING OPTION¹: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0 | ___ Chrysotile ___ Amosite ___ Other | ___ Cellulose ___ Fiberglass ___ Other; O.C. ☐ | 100 Mineral Filler ___ Organic Binders ___ Vermiculite ___ Other | ___ Organic ___ Resins ___ Carbonate ___ Other ___ Asbestos |
| 2 | 2 | Color tan; Texture grain; Homogeneity 4; # of Layers 4; Asbestos ☐ ☐; Color of Layer —; Detected Yes No; Comments: | Morphology —; Extinction —; RI I —; RI II —; DS Color —; Color,Pleo —; Biref —; Sign —; Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ other ☑ SCANNING OPTION¹: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0 | ___ Chrysotile ___ Amosite ___ Other | 4 Cellulose ___ Fiberglass ___ Other; O.C. ☐ | 96 Mineral Filler ___ Organic Binders ___ Vermiculite ___ Other | ___ Organic ___ Resins ___ Carbonate ___ Other ___ Asbestos |
| 3 | 3 | Color tan; Texture grain; Homogeneity 4; # of Layers 4; Asbestos ☐ ☐; Color of Layer —; Detected Yes No; Comments: | Morphology —; Extinction —; RI I —; RI II —; DS Color —; Color,Pleo —; Biref —; Sign —; Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ other ☑ SCANNING OPTION¹: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0 | ___ Chrysotile ___ Amosite ___ Other | 1 Cellulose ___ Fiberglass ___ Other; O.C. ☐ | 99 Mineral Filler ___ Organic Binders ___ Vermiculite ___ Other | ___ Organic ___ Resins ___ Carbonate ___ Other ___ Asbestos |
| 4 | 4 | Color tan; Texture grain; Homogeneity 4; # of Layers 4; Asbestos ☐ ☐; Color of Layer —; Detected Yes No; Comments: | Morphology —; Extinction —; RI I —; RI II —; DS Color —; Color,Pleo —; Biref —; Sign —; Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ other ☑ SCANNING OPTION¹: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0 | ___ Chrysotile ___ Amosite ___ Other | ___ Cellulose ___ Fiberglass ___ Other; O.C. ☐ | 100 Mineral Filler ___ Organic Binders ___ Vermiculite ___ Other | ___ Organic ___ Resins ___ Carbonate ___ Other ___ Asbestos |

Gravimetric (NOB) Reported ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐ Point Count results on this sheet

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

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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 10870
Microscope OLYP BH 2

Client / Project: BOE/M833/100 Trinity Place — Project No: 4584-086

Analysis Date: 8/30/04 — Analyst: GBA — Batch No.: 20210

| | Stereoscopic Exam | PLM Optical Properties | Asbestos Results PLM % | Other Fibrous % | Non Fibrous % | Gravimetric (NOB) Results % |
|---|---|---|---|---|---|---|
| 1 Field No. 5 | Color tan — Texture opaq | Morphology — Extinction — | Chrysotile — | Cellulose — | 100 Mineral Filler | Organic — |
| Gravimetric (NOB) — Required ☐ | Homogeneity 4 | RI ∥ — RI ⊥ — | Amosite — | Fiberglass — | Organic Binders — | Residue — |
| Recommended ☐ | # of Layers 4 — Asbestos ☐ ☑ | DS Color — Color,Pleo — | Other — | Other — | Vermiculite — | Carbonate — |
| Gravimetric PREP ☐ | Color of Layer — — Detected Yes No | Biref — Sign — | | | Other — | Other — |
| Gravimetric (NOB) TEM ☐ | Comments: | | | Q.C. ☐ | | Asbestos — |
| Point Count Results on following page | Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER — ☑ SCANNING OPTIONS: ELAP (P.C.) & EPA¹ — First 4 preps. Asbestos = 0 | | | | | |
| 2 Field No. 6 | Stereoscopic Exam | PLM Optical Properties | Asbestos Results PLM % | Other Fibrous % | Non Fibrous % | Gravimetric (NOB) Results % |
| Gravimetric (NOB) — Required ☐ | Color tan — Texture opaq | Morphology — Extinction — | Chrysotile — | 10 Cellulose | 100 Mineral Filler | Organic — |
| Recommended ☐ | Homogeneity 4 | RI ∥ — RI ⊥ — | Amosite — | Fiberglass — | Organic Binders — | Residue — |
| Gravimetric PREP ☐ | # of Layers 4 — Asbestos ☐ ☑ | DS Color — Color,Pleo — | Other — | Other — | Vermiculite — | Carbonate — |
| Gravimetric (NOB) TEM ☐ | Color of Layer — — Detected Yes No | Biref — Sign — | | | Other — | Other — |
| Point Count Results on following page | Comments: | | | Q.C. ☐ | | Asbestos — |
| | Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER — ☐ SCANNING OPTIONS: ELAP (P.C.) & EPA¹ — First 4 preps. Asbestos = 0 | | | | | |
| 3 Field No. 7 | Stereoscopic Exam | PLM Optical Properties | Asbestos Results PLM % | Other Fibrous % | Non Fibrous % | Gravimetric (NOB) Results % |
| Gravimetric (NOB) — Required ☐ | Color tan — Texture opaq | Morphology — Extinction — | Chrysotile — | Cellulose — | 100 Mineral Filler | Organic — |
| Recommended ☐ | Homogeneity 4 | RI ∥ — RI ⊥ — | Amosite — | Fiberglass — | Organic Binders — | Residue — |
| Gravimetric PREP ☐ | # of Layers 4 — Asbestos ☐ ☑ | DS Color — Color,Pleo — | Other — | Other — | Vermiculite — | Carbonate — |
| Gravimetric (NOB) TEM ☐ | Color of Layer — — Detected Yes No | Biref — Sign — | | | Other — | Other — |
| Point Count Results on following page | Comments: | | | Q.C. ☐ | | Asbestos — |
| | Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER — ☑ SCANNING OPTIONS: ELAP (P.C.) & EPA¹ — First 4 preps. Asbestos = 0 | | | | | |
| 4 Field No. 8 | Stereoscopic Exam | PLM Optical Properties | Asbestos Results PLM % | Other Fibrous % | Non Fibrous % | Gravimetric (NOB) Results % |
| Gravimetric (NOB) — Required ☐ | Color tan — Texture opaq | Morphology — Extinction — | Chrysotile — | Cellulose — | 100 Mineral Filler | Organic — |
| Recommended ☐ | Homogeneity 4 | RI ∥ — RI ⊥ — | Amosite — | Fiberglass — | Organic Binders — | Residue — |
| Gravimetric PREP ☐ | # of Layers 4 — Asbestos ☐ ☑ | DS Color — Color,Pleo — | Other — | Other — | Vermiculite — | Carbonate — |
| Gravimetric (NOB) TEM ☐ | Color of Layer — — Detected Yes No | Biref — Sign — | | | Other — | Other — |
| Point Count Results on following page | Comments: | | | Q.C. ☐ | | Asbestos — |
| | Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER — ☑ SCANNING OPTIONS: ELAP (P.C.) & EPA¹ — First 4 preps. Asbestos = 0 | | | | | |

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

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# 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 10870
Microscope OLYP BH 2

Client / Project: DOE/M833/100 Trinity — Project No. 14184-086

Analysis Date: 3/30/07 — Analyst: QA — Batch No. 20210

| 1 Field No. 4 | Stereoscopic Exam | PLM Optical Properties | Asbestos Results PLM % | Other Fibrous % | Non Fibrous % | Gravimetric (DOB) Results % |
|---|---|---|---|---|---|---|
| Gravimetric (DOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (DOB) PREP ☐ Gravimetric (DOB) TEM ☐ | Color tan — Texture granular<br>Homogeneity 1<br># of Layers 1 — Asbestos ☐ ☑<br>Color of Layer — Detected Yes No<br>Comments: | Morphology — Extinction —<br>RI ∥ — RI ⊥ —<br>DS Color — Color,Pleo —<br>Biref — Sign — | ___ Chrysotile<br>___ Amosite<br>___ Other | 2 Cellulose<br>___ Fiberglass<br>___ Other | 100 Mineral Filler<br>___ Organic Binders<br>___ Vermiculite<br>___ Other | ___ Organic<br>___ Residue<br>___ Carbonate<br>___ Other<br>___ Asbestos |
| Point Count Results on the back | Method: ☐ ELAP + EPA* ☐ ELAP ☐ EPA* ☐ Other ☐ SCANNING OPTION: ELAP (P.C.) & EPA* First 4 preps. Asbestos = 0 | | | Q.C. ☐ | | |

| 2 Field No | Stereoscopic Exam | PLM Optical Properties | Asbestos Results PLM % | Other Fibrous % | Non Fibrous % | Gravimetric (DOB) Results % |
|---|---|---|---|---|---|---|
| Gravimetric (DOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (DOB) PREP ☐ Gravimetric (DOB) TEM ☐ | Color — Texture —<br>Homogeneity —<br># of Layers — Asbestos ☐ ☐<br>Color of Layer — Detected Yes No<br>Comments: | Morphology — Extinction —<br>RI ∥ — RI ⊥ —<br>DS Color — Color,Pleo —<br>Biref — Sign — | ___ Chrysotile<br>___ Amosite<br>___ Other | ___ Cellulose<br>___ Fiberglass<br>___ Other | ___ Mineral Filler<br>___ Organic Binders<br>___ Vermiculite<br>___ Other | ___ Organic<br>___ Residue<br>___ Carbonate<br>___ Other<br>___ Asbestos |
| Point Count Results on the back | Method: ☐ ELAP + EPA* ☐ ELAP ☐ EPA* ☐ Other ☐ SCANNING OPTION: ELAP (P.C.) & EPA* First 4 preps. Asbestos = 0 | | | Q.C. ☐ | | |

| 3 Field No. | Stereoscopic Exam | PLM Optical Properties | Asbestos Results PLM % | Other Fibrous % | Non Fibrous % | Gravimetric (DOB) Results % |
|---|---|---|---|---|---|---|
| Gravimetric (DOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (DOB) PREP ☐ Gravimetric (DOB) TEM ☐ | Color — Texture —<br>Homogeneity —<br># of Layers — Asbestos ☐ ☐<br>Color of Layer — Detected Yes No<br>Comments: | Morphology — Extinction —<br>RI ∥ — RI ⊥ —<br>DS Color — Color,Pleo —<br>Biref — Sign — | ___ Chrysotile<br>___ Amosite<br>___ Other | ___ Cellulose<br>___ Fiberglass<br>___ Other | ___ Mineral Filler<br>___ Organic Binders<br>___ Vermiculite<br>___ Other | ___ Organic<br>___ Residue<br>___ Carbonate<br>___ Other<br>___ Asbestos |
| Point Count Results on the back | Method: ☐ ELAP + EPA* ☐ ELAP ☐ EPA* ☐ Other ☐ SCANNING OPTION: ELAP (P.C.) & EPA* First 4 preps. Asbestos = 0 | | | Q.C. ☐ | | |

| 4 Field No | Stereoscopic Exam | PLM Optical Properties | Asbestos Results PLM % | Other Fibrous % | Non Fibrous % | Gravimetric (DOB) Results % |
|---|---|---|---|---|---|---|
| Gravimetric (DOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (DOB) PREP ☐ Gravimetric (DOB) TEM ☐ | Color — Texture —<br>Homogeneity —<br># of Layers — Asbestos ☐ ☐<br>Color of Layer — Detected Yes No<br>Comments: | Morphology — Extinction —<br>RI ∥ — RI ⊥ —<br>DS Color — Color,Pleo —<br>Biref — Sign — | ___ Chrysotile<br>___ Amosite<br>___ Other | ___ Cellulose<br>___ Fiberglass<br>___ Other | ___ Mineral Filler<br>___ Organic Binders<br>___ Vermiculite<br>___ Other | ___ Organic<br>___ Residue<br>___ Carbonate<br>___ Other<br>___ Asbestos |
| Point Count Results on the back | Method: ☐ ELAP + EPA* ☐ ELAP ☐ EPA* ☐ Other ☐ SCANNING OPTION: ELAP (P.C.) & EPA* First 4 preps. Asbestos = 0 | | | Q.C. ☐ | | |

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