

Page 2 of 6BATCH NO. 19493

PROJECT INFORMATION

BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

1. Client: DDC	2. Project Name: W.T.C.	3. Project No.: 17494-0134	4. Project Manager: R. RIVERO
2a. Project Address: LOWER MANHATTAN		4a. Investigator: F. PIERRE	
5. Date: 09/17/01	6. Building Name: WTC	8. Turnaround Time: ☐ STAT ☐ 24 HRS ☐ 72 HRS ☐ OTHER ☐ 6 HRS ☐ 48 HRS ☐ NORMAL ☒ RUSH	9. Comments (Field): ANALYZE BY PLM ALL SAMPLES ONLY
7. Sampling Areas: PILE 6			

BULK SAMPLE LOCATION

10. Homogenous Area No.	11. Bulk Sample ID No.	12. Material	13. Thermal System	14. Sample Location	15. Material Total Quantity (LF, SF, PCS)	16. Asbestos Content (Type & %)
				Floor	Sample Coordinates	
03	3-21	FIRE-PROOFING (ON BEAMS)	☒	6D	GROUND - ZERO	
	3-22	"	☒		PILE # 3	
	3-23	"	☒		"	
	3-24	"	☒		"	
	3-25	"	☒		"	
	3-26	"	☒		"	
	3-27	"	☒		"	
	3-28	"	☒		"	
	3-29	"	☒		"	
	3-30	"	☒		"	
06	6-01	"	☒		PILE #1 ACROSS BRONX	
	6-02	"	☒		PARKING GARAGE	
	6-03	"	☒		"	
	6-04	"	☒		"	
	6-05	"	☒		"	
	6-06	"	☒		"	
	6-07	"	☒		"	
	6-08	"	☒		"	
	6-09	"	☒		"	
	6-10	"	☒		"	

CHAIN OF CUSTODY

17. Relinquished By: I [Signature]	18. Date: 9/17/01	19. Time: 11:45 AM	20. Received By: ML [Signature]	21. Date: 09/17/01	22. Time: 11:45 AM	23. Method of Submission: ☐ FIELD ☐ WALK IN ☐ US MAIL ☐ FED EX ☐ OTHER

LAB INFORMATION

24. Name and Signature: ML [Signature]	25. Date: 9/17/01	26. Time: 3:00 PM	27. Comments (Lab):
24a. Analyzed By:			
24b. Analyzed By:			
24c. QC By: MLW	9/17/01 3:00 PM		

NY-13 (3/99)

CITY_21MC100_007210873

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BATCH NO.

19493

PROJECT INFORMATION

BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

1. Client: DDC	2. Project Name: W.T.C.	3. Project No: 17494-0134	4. Project Manager: R. RIVERO
5. Date: 09/17/01	2a. Project Address: LOWER MANHATTAN	4a. Investigator: F. PIERRE	9. Comments (Field): ANALYZE ALL SAMPLES BY PLM
6. Building Name: WTC Bldg	7. Sampling Areas: PILE 6	8. Turnaround Time: ☐ STAT ☐ 24 HRS ☐ 72 HRS ☐ OTHER ☐ 6 HRS ☐ 48 HRS ☐ NORMAL	

BULK SAMPLE LOCATION

10. Homogenous Area No.	11. Bulk Sample ID No.	12. Material	13. Thermal System	14. Sample Location	15. Material Total Quantity (LF, SF, PCS)	16. Asbestos Content (Type & %)
				Floor	Sample Coordinates	
06	6-11	(on beams) FIRE PROTECT	✓	GD	GROUND - ZERO	
	6-12	"	✓		PILE #6 ACROSS	
	6-13	"	✓		BROOKLYN PARKING GARAGE	
	6-14	"	✓		"	
	6-15	"	✓		"	
	6-16	"	✓		"	
	6-17	"	✓		"	
	6-18	"	✓		"	
	6-19	"	✓		"	
	6-20	"	✓		"	
	6-21	"	✓		"	
	6-22	"	✓		"	
	6-23	"	✓		"	
	6-24	"	✓		"	
	6-25	"	✓		"	
	6-26	"	✓		"	
	6-27	"	✓		"	
	6-28	"	✓		"	
	6-29	"	✓		"	
	6-30	"	✓		"	

CHAIN OF CUSTODY

17. Relinquished By: I [Signature]	18. Date: 9/17/01	19. Time:	20. Received By: Mr. Groel	21. Date: 09/17/01	22. Time: 11:45 AM	23. Method of Submission: FIELD
II						WALK IN
III						US MAIL
						FED EX
						OTHER

LAB INFORMATION

24. Name and Signature: ML	25. Date: 9/17/01	26. Time: 3:00 PM	27. Comments (Lab):
24a. Analyzed By:			
24b. Analyzed By:			
24c. QC By: Ministry	9/17/01	3:00 PM	

NY-13 (3/99)

CITY_21MC100_007210874

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 101187

ELAP 10879

Microscope OLYMP BH 2

Client / Project

D.D.C. / W.T.C. Lower Manhattan

Project No.

17494-0134

Analysis Date

09/17/01

Analyst

Mloull

Batch No.

19493

1	Field No. 6-01	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
		Color <u>tan</u>	Texture <u>F</u>	Morphology	Extinction	Chrysotile	Cellulose	Mineral Filler	Organic
		Homogeneity <u>4</u>		RI I	RI II	Amosite	Fiberglass	Organic Binders	Residue
		# of Layers	Asbestos ☐ ☒	DS Color	Color, Pleo	Other	Other	Vermiculite	Carbonate
		Color of Layer	Detected Yes No	Biref	Sign			Other	Other
		Comments:							Asbestos
		Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0						Q.C. ☐	

2	Field No. 02	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
		Color <u>tan</u>	Texture <u>F</u>	Morphology	Extinction	Chrysotile	Cellulose	Mineral Filler	Organic
		Homogeneity <u>4</u>		RI I	RI II	Amosite	Fiberglass	Organic Binders	Residue
		# of Layers	Asbestos ☐ ☒	DS Color	Color, Pleo	Other	Other	Vermiculite	Carbonate
		Color of Layer	Detected Yes No	Biref	Sign			Other	Other
		Comments:							Asbestos
		Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0						Q.C. ☐	

3	Field No. 03	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
		Color <u>tan</u>	Texture <u>P</u>	Morphology <u>S</u>	Extinction <u>H</u>	Chrysotile	Cellulose	Mineral Filler	Organic
		Homogeneity <u>4</u>		RI I <u>1.670</u>	RI II <u>1.680</u>	Amosite	Fiberglass	Organic Binders	Residue
		# of Layers	Asbestos ☒ ☐	DS Color <u>41B</u>	Color, Pleo <u>N/A</u>	Other	Other	Vermiculite	Carbonate
		Color of Layer	Detected Yes No	Biref <u>L</u>	Sign <u>+</u>			Other	Other
		Comments:							Asbestos
		Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0						Q.C. ☒ mei usen	

4	Field No. 04	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
		Color <u>tan</u>	Texture <u>P</u>	Morphology	Extinction	Chrysotile	Cellulose	Mineral Filler	Organic
		Homogeneity <u>4</u>		RI I	RI II	Amosite	Fiberglass	Organic Binders	Residue
		# of Layers	Asbestos ☐ ☒	DS Color	Color, Pleo	Other	Other	Vermiculite	Carbonate
		Color of Layer	Detected Yes No	Biref	Sign			Other	Other
		Comments:							Asbestos
		Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0						Q.C. ☐	

CITY_21MC100_007210875

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EVLAP 101187

ELAP 18818

Microscope OL1P BH-2

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

Analysis Date 09/17/01 Analyst MC Batch No. 19493

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	Extinction	☒ Chrysotile	<u>90</u> Cellulose	<u>60</u> Mineral Filler	Organic
	Recommended ☐	Homogeneity <u>4</u>		RI I	RI II	☒ Amosite	Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	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:				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>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	Extinction	☒ Chrysotile	<u>90</u> Cellulose	<u>60</u> Mineral Filler	Organic
	Recommended ☐	Homogeneity <u>4</u>		RI I	RI II	☒ Amosite	Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	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:				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. <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	Extinction	☒ Chrysotile	<u>90</u> Cellulose	<u>5</u> Mineral Filler	Organic
	Recommended ☐	Homogeneity <u>4</u>		RI I	RI II	☒ Amosite	Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	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:				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>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	Extinction	☒ Chrysotile	<u>90</u> Cellulose	<u>5</u> Mineral Filler	Organic
	Recommended ☐	Homogeneity <u>4</u>		RI I	RI II	☒ Amosite	Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	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:				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							

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NYLAP 101187

ELAP 10079

Microscope OLYMP BH 2

Client / Project

D.D.C. / W.F.C. Lower Manhattan

Project No.

17494-0134

Analysis Date

09/17/01

Analyst

MC

Batch No.

19493

1	Field No. 6-09	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>tan</u>	Texture <u>P</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>4</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 ☐ No ☐	Biref <u> </u>	Sign <u> </u>			<u> </u> Other	<u> </u> Other
	Gravimetric (HOB) TEM ☐	Comments: <u> </u>							<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. 10	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>tan</u>	Texture <u>P</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>4</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 ☐ No ☐	Biref <u> </u>	Sign <u> </u>			<u> </u> Other	<u> </u> Other
	Gravimetric (HOB) TEM ☐	Comments: <u> </u>							<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. 11	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>tan</u>	Texture <u>P</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>4</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 ☐ No ☐	Biref <u> </u>	Sign <u> </u>			<u> </u> Other	<u> </u> Other
	Gravimetric (HOB) TEM ☐	Comments: <u> </u>							<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. 12	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐	Color <u>tan</u>	Texture <u>P</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>4</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 ☐ No ☐	Biref <u> </u>	Sign <u> </u>			<u> </u> Other	<u> </u> Other
	Gravimetric (HOB) TEM ☐	Comments: <u> </u>							<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 101187

ELAP 10879

Microscope OLMP BH-2

Client / Project

D.D.C. / W.P.C. Lower Manhattan

Project No.

17494-0134

Analysis Date

09/17/01

Analyst

ML

Batch No.

19493

Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
1 6-13	Color <u>Tan</u> Texture <u>F</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>10</u> Amosite <u>90</u> Other <u> </u>	Cellulose <u>10</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>
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0					
2 14	Color <u>Tan</u> Texture <u>F</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>10</u> Amosite <u>90</u> Other <u> </u>	Cellulose <u>10</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>
POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0					
3 15	Color <u>Tan</u> Texture <u>F</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>II</u> RI I <u>1.549</u> RI II <u>1.552</u> DS Color <u>MB</u> Color, Pleo <u>2.1/WS</u> Biref <u>L</u> Sign <u>T</u>	Chrysotile <u>5</u> Amosite <u>90</u> Other <u> </u>	Cellulose <u>5</u> Fiberglass <u>90</u> Other <u> </u>	Mineral Filler <u>10</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					
4 16	Color <u>Tan</u> Texture <u>F</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>II</u> RI I <u>1.549</u> RI II <u>1.553</u> DS Color <u>MBL</u> Color, Pleo <u>CIN</u> Biref <u>L</u> Sign <u>T</u>	Chrysotile <u>5</u> Amosite <u>80</u> Other <u> </u>	Cellulose <u>5</u> Fiberglass <u>80</u> Other <u> </u>	Mineral Filler <u>10</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					

CITY_21MC100_007210878

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EVLAP 101187

ELAP 10A70

Microscopa OLTP B11.2

Client / Project

D.D.C. / W.T.C. Lower Manhattan

Project No.

17494-0134

Analysis Date

09/17/01

Analyst

Batch No.

19493

Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
17	Color <u>Tan</u> Texture <u>F</u> Homogeneity <u>4</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 _____	Cellulose <u>40</u> Fiberglass _____ Other _____	Mineral Filler <u>10</u> Organic Binders _____ Vermiculite _____ Other _____	Organic _____ Residue _____ Carbonate _____ Other _____ 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. ☐			
18	Color <u>Tan</u> Texture <u>F</u> Homogeneity <u>4</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 _____	Cellulose <u>75</u> Fiberglass <u>15</u> Other _____	Mineral Filler <u>15</u> Organic Binders _____ Vermiculite _____ Other _____	Organic _____ Residue _____ Carbonate _____ Other _____ 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. ☐			
19	Color <u>Tan</u> Texture <u>F</u> Homogeneity <u>4</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 _____	Cellulose <u>2</u> Fiberglass <u>88</u> Other _____	Mineral Filler <u>10</u> Organic Binders _____ Vermiculite _____ Other _____	Organic _____ Residue _____ Carbonate _____ Other _____ 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. ☐			
20	Color <u>Tan</u> Texture <u>F</u> Homogeneity <u>4</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 _____	Cellulose <u>15</u> Fiberglass <u>90</u> Other _____	Mineral Filler <u>10</u> Organic Binders _____ Vermiculite _____ Other _____	Organic _____ Residue _____ Carbonate _____ Other _____ 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. ☐			

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 101187

ELAP 10078

Microscope OLYMP BH-2

Client / Project

D.D.C. / W.T.C. Lower Manhattan

Project No.

17494-0134

Analysis Date

09/17/01

Analyst

ML

Batch No.

19493

1	Field No. 21	Stereoscopic Exam		PLM Optical Properties ¹		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>H</u>	<u>5</u> Chrysotile	<u>5</u> Cellulose	<u>10</u> Mineral Filler	Organic
	Recommended ☐	Homogeneity <u>Y</u>	Asbestos ☒ ☐	RI I <u>1.549</u>	RI II <u>1.55L</u>	Amosite	<u>90</u> Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	Detected Yes No	DS Color <u>W/B</u>	Color, Pleo <u>C/N/D</u>	Other	Other	Vermiculite	Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer		Biref <u>L</u>	Sign <u>+</u>			Other	Other
	Gravimetric (HOB) TEM ☐	Comments:							Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA ² ☐ ELAP ☐ EPA ² ☐ OTHER				SCANNING OPTION: ☐ ELAP (P.C.) & EPA ²		First 4 preps. Asbestos = 0	

2	Field No. 22	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	Extinction	Chrysotile	<u>90</u> Cellulose	<u>10</u> Mineral Filler	Organic
	Recommended ☐	Homogeneity <u>Y</u>	Asbestos ☐ ☒	RI I	RI II	Amosite	Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	Detected Yes No	DS Color	Color, Pleo	Other	Other	Vermiculite	Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer		Biref	Sign			Other	Other
	Gravimetric (HOB) TEM ☐	Comments:							Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA ² ☐ ELAP ☐ EPA ² ☐ OTHER				SCANNING OPTION: ☐ ELAP (P.C.) & EPA ²		First 4 preps. Asbestos = 0	

3	Field No. 23	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	Extinction	Chrysotile	<u>28</u> Cellulose	<u>10</u> Mineral Filler	Organic
	Recommended ☐	Homogeneity <u>Y</u>	Asbestos ☐ ☒	RI I	RI II	Amosite	Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	Detected Yes No	DS Color	Color, Pleo	Other	Other	Vermiculite	Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer		Biref	Sign			Other	Other
	Gravimetric (HOB) TEM ☐	Comments:							Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA ² ☐ ELAP ☐ EPA ² ☐ OTHER				SCANNING OPTION: ☐ ELAP (P.C.) & EPA ²		First 4 preps. Asbestos = 0	

4	Field No. 24	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	Extinction	Chrysotile	<u>10</u> Cellulose	<u>10</u> Mineral Filler	Organic
	Recommended ☐	Homogeneity <u>Y</u>	Asbestos ☐ ☒	RI I	RI II	Amosite	Fiberglass	Organic Binders	Residue
	Gravimetric PREP ☐	# of Layers	Detected Yes No	DS Color	Color, Pleo	Other	Other	Vermiculite	Carbonate
	Gravimetric (HOB) PLM ☐	Color of Layer		Biref	Sign			Other	Other
	Gravimetric (HOB) TEM ☐	Comments:							Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: ☒ ELAP + EPA ² ☐ ELAP ☐ EPA ² ☐ OTHER				SCANNING OPTION: ☐ ELAP (P.C.) & EPA ²		First 4 preps. Asbestos = 0	

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104 East 25th Street, 10th Floor - New York, NY 10010 Phone (212) 353 - 8280, FAX (212) 353 - 3599 or 8306

HVLAP 101187

ELAP 10878

Microscope OL1P 8112

Client / Project

D.D.C. / W.F.C. Lower Manhattan

Project No.

17494-0134

Analysis Date

09/17/01

Analyst:

ML

Batch No.

19493

1	Field No. 6-25	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (HOB) PLM ☐ Gravimetric (HOB) TEM ☐	Color <u>Tan</u> Homogeneity <u>U</u> # of Layers <u> </u> Color of Layer <u> </u>	Texture <u>F</u> Asbestos ☒ ☐ Detected Yes No	Morphology <u>W</u> RI I <u>1.550</u> DS Color <u>MIBL</u> Biref <u>L</u>	Extinction <u>II</u> RI II <u>1.556</u> Color, Pleo <u>CIN</u> Sign <u>+</u>	<u>TR</u> Chrysotile Amosite Other	<u>5</u> Cellulose Fiberglass Other	Mineral Filler Organic Binders Vermiculite Other	Organic Residue Carbonate Other 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. 26	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (HOB) PLM ☐ Gravimetric (HOB) TEM ☐	Color <u>Tan</u> Homogeneity <u>U</u> # of Layers <u> </u> Color of Layer <u> </u>	Texture <u>F</u> Asbestos ☐ ☒ Detected Yes No	Morphology <u> </u> RI I <u> </u> DS Color <u> </u> Biref <u> </u>	Extinction <u> </u> RI II <u> </u> Color, Pleo <u> </u> Sign <u> </u>	<u>TR</u> Chrysotile <u>90</u> Amosite Other	<u>10</u> Cellulose Fiberglass Other	Mineral Filler Organic Binders Vermiculite Other	Organic Residue Carbonate Other 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. 27	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (HOB) PLM ☐ Gravimetric (HOB) TEM ☐	Color <u>Tan</u> Homogeneity <u>U</u> # of Layers <u> </u> Color of Layer <u> </u>	Texture <u>F</u> Asbestos ☒ ☐ Detected Yes No	Morphology <u>W</u> RI I <u>1.549</u> DS Color <u>MIBL</u> Biref <u>L</u>	Extinction <u>II</u> RI II <u>1.556</u> Color, Pleo <u>CIN</u> Sign <u>+</u>	<u>TR</u> Chrysotile <u>90</u> Amosite Other	<u>10</u> Cellulose Fiberglass Other	Mineral Filler Organic Binders Vermiculite Other	Organic Residue Carbonate Other 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. 28	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (HOB) Results %
	Gravimetric (HOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (HOB) PLM ☐ Gravimetric (HOB) TEM ☐	Color <u>Tan</u> Homogeneity <u>U</u> # of Layers <u> </u> Color of Layer <u> </u>	Texture <u>P</u> Asbestos ☐ ☒ Detected Yes No	Morphology <u> </u> RI I <u> </u> DS Color <u> </u> Biref <u> </u>	Extinction <u> </u> RI II <u> </u> Color, Pleo <u> </u> Sign <u> </u>	<u>TR</u> Chrysotile <u>90</u> Amosite Other	<u>10</u> Cellulose Fiberglass Other	Mineral Filler Organic Binders Vermiculite Other	Organic Residue Carbonate Other 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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NVLAP 101187

ELAP 19879

Microscope OL1P 8112

Client / Project

D.D.C. / W.F.C. Lower Manhattan

Project No.

17494-0134

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Analyst

ML

Batch No.

19493

1	Field No. 6/29	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>RI I</u>	Extinction <u>RI II</u>	<u>Chrysotile</u>	<u>Cellulose</u>	<u>Mineral Filler</u>	<u>Organic</u>
	Recommended ☐	Homogeneity <u>4</u>	Asbestos ☐ ☒	DS Color <u>Color, Pleo</u>	Color, Pleo <u>Color, Pleo</u>	<u>Amosite</u>	<u>90</u> <u>Fiberglass</u>	<u>10</u> <u>Organic Binders</u>	<u>Residue</u>
	Gravimetric PREP ☐	# of Layers <u>4</u>	Asbestos ☐ ☒	DS Color <u>Color, Pleo</u>	Color, Pleo <u>Color, Pleo</u>	<u>Other</u>	<u>Other</u>	<u>Vermiculite</u>	<u>Carbonate</u>
	Gravimetric (HOB) PLM ☐	Color of Layer <u>Detected</u>	Yes ☐ No ☐	Biref <u>Sign</u>	Sign <u>Sign</u>			<u>Other</u>	<u>Other</u>
	Gravimetric (HOB) TEM ☐	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. 6-30	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>RI I</u>	Extinction <u>RI II</u>	<u>Chrysotile</u>	<u>Cellulose</u>	<u>Mineral Filler</u>	<u>Organic</u>
	Recommended ☐	Homogeneity <u>4</u>	Asbestos ☐ ☒	DS Color <u>Color, Pleo</u>	Color, Pleo <u>Color, Pleo</u>	<u>Amosite</u>	<u>90</u> <u>Fiberglass</u>	<u>10</u> <u>Organic Binders</u>	<u>Residue</u>
	Gravimetric PREP ☐	# of Layers <u>4</u>	Asbestos ☐ ☒	DS Color <u>Color, Pleo</u>	Color, Pleo <u>Color, Pleo</u>	<u>Other</u>	<u>Other</u>	<u>Vermiculite</u>	<u>Carbonate</u>
	Gravimetric (HOB) PLM ☐	Color of Layer <u>Detected</u>	Yes ☐ No ☐	Biref <u>Sign</u>	Sign <u>Sign</u>			<u>Other</u>	<u>Other</u>
	Gravimetric (HOB) TEM ☐	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 (HOB) Results %
	Gravimetric (HOB) Required ☐	Color	Texture	Morphology	Extinction	<u>Chrysotile</u>	<u>Cellulose</u>	<u>Mineral Filler</u>	<u>Organic</u>
	Recommended ☐	Homogeneity	Asbestos ☐ ☐	DS Color	Color, Pleo	<u>Amosite</u>	<u>Fiberglass</u>	<u>Organic Binders</u>	<u>Residue</u>
	Gravimetric PREP ☐	# of Layers	Asbestos ☐ ☐	DS Color	Color, Pleo	<u>Other</u>	<u>Other</u>	<u>Vermiculite</u>	<u>Carbonate</u>
	Gravimetric (HOB) PLM ☐	Color of Layer	Detected Yes No	Biref	Sign			<u>Other</u>	<u>Other</u>
	Gravimetric (HOB) TEM ☐	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 (HOB) Results %
	Gravimetric (HOB) Required ☐	Color	Texture	Morphology	Extinction	<u>Chrysotile</u>	<u>Cellulose</u>	<u>Mineral Filler</u>	<u>Organic</u>
	Recommended ☐	Homogeneity	Asbestos ☐ ☐	DS Color	Color, Pleo	<u>Amosite</u>	<u>Fiberglass</u>	<u>Organic Binders</u>	<u>Residue</u>
	Gravimetric PREP ☐	# of Layers	Asbestos ☐ ☐	DS Color	Color, Pleo	<u>Other</u>	<u>Other</u>	<u>Vermiculite</u>	<u>Carbonate</u>
	Gravimetric (HOB) PLM ☐	Color of Layer	Detected Yes No	Biref	Sign			<u>Other</u>	<u>Other</u>
	Gravimetric (HOB) TEM ☐	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	