NYC 9/11 Public Portal Document

APPENDIX G - POST SILICA AIR SAMPLING

NYC 9/11 Public Portal Document

PSC ANALYTICAL SERVICES

INDUSTRIAL HYGIENE ENVIRONMENTAL TESTING

• EPA/NVLAP 101262-0
• AIHA ACCREDITATION NO. 100439
• NC DENR 599
• NY DOH/NELAC 10903
• PA DEP 06-353
• NJ DEP PA020
• CT DPH PH-0238

October 14, 2002

Ben Sallemi
ATC Associates
104 East 25th Street
10th Floor
New York, NY 10010-2917

TEL: (212) 353-8280
FAX (212) 353-8306

RE: DEP Cleanup, 15-22906-0002 Order No.: R02100360

Dear Ben Sallemi:

PSC Analytical Services received 25 samples on 10/10/02 9:50:00 AM for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael J Salum
General Manager

4418 Pottsville Pike, Reading, PA 19605 610-921-8833 FAX 610-921-8407

PSC ANALYTICAL SERVICES

INDUSTRIAL HYGIENE

- EPA/NVLAP 101262-0
- AIHA ACCREDITATION NO. 100439
- NC DENR 599

ENVIRONMENTAL TESTING

- NY DOH/NELAC 10903
- PA DEP 06-353
- NJ DEP PA020
- CT DPH PH-0238

REMIT TO: **PSC Analytical Services**
Accounts Receivable
P.O. Box 3069-Department 3
Houston, TX 772533069
TEL: (610) 921-8833

INVOICE

INV DATE: *October 14, 2002*
Print DATE: *October 14, 2002*

Invoice No: 11187

Invoice TO: ATC Associates
104 East 25th Street
10th Floor
New York, NY 100102917

Attn: Accounts Payable
Phone: (212) 353-8280

Work Order: R02100360
PO Number: 15-22906-0002

Order Name: DEP Cleanup, 15-22906-0002
Date Received: 10/10/02

Item	Remarks	Matrix	Qty	Unit Price	Mult	Quoted	Test Total
AIRBORNE SILICA	sub to WOHL	Air	25	$100.00	1	$85.00	$2,125.00
TOTAL PARTICULATE MATTER	pre-paid filters	Air	25	$25.00	1	$0.00	$0.00

Subtotal:	**$2,125.00**
Discount:	0.00%
Surcharge:	50.00%
Misc Charges:	$0.00
Payment Received:	$0.00
INVOICE Total:	**$3,187.50**

All Invoices are due and Payable net 30 days from date invoiced.

NYC-WTC_00013041

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

SILICA NIOSH 7500 XRD

R021003 60

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☒ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number
DEP	DEP CLEANUP	15-22900-0002		PRIMARY GILIAN 1528-S
	2a. Project Address: 125 CEDAR St, NY, NY	3a. Task # 0002	4a. Air Sampler: R. FISHMAN	

5. Date:	6. Abatement Location:	7. ☐ ~~PCM (0.8 micron MCE)~~	8. ☐ TEM (0.45 micron MCE)	9. Type:		
10-07-02		Cassette/Filter Manufacture: SILICA Lot #: 03352	Cassette/Filter Manufacture: Lot #:	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☒ Post-Abate e. ☐ OSHA	f. ☐ Environmental g. ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock): 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.): 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
S125Ced-25				Field Blank ✓									
				Field Blank									
SP-C1	389543			PII - Living Room center	1658	2315	377	2507	2491	2499	942.1		
S12N-02	389978			PII - Living room	1702	2320	378	2512	2500	2506	947.3		
S12SW-03	389976			PII - Living room	1711	2322	371	1710	1697	1703.5	632.0		
S12SE-04	389972			PII - By center	1712	2324	372	2508	2473	2490.5	926.5		
S11N-05	389588			PII Living Room	1729	2326	357	1705	1704	1704.5	608.5		
S11S-06	389972			PII Living Room	1741	2327	346	2499	2473	2486	860.2		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I R. FISHMAN		10-09-02	
II Fedex	[signature]	10-10-02	0950
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:		
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

26. ATC Project Manager: B SALLEMI

27. Result To: FAX B. SALLEMI
~~Beeper/Phone #'s~~ FAX (212) 353 8306

28. Comments:

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

DELIVERY FEDEX

NY-1 (1/01)

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

R0210036

Page 2 of 4

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☑ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP CLEAN UP	15-22906-0002		See page 1
	2a. Project Address: 125 CEDAR St, NY, NY	3a. Task # 0002	4a. Air Sampler: R. FISHMAN/E. LEMNOVICH	

5. Date:	6. Abatement Location:	7. ☐ ~~PCM (0.8 micron MCE)~~	8. ☐ TEM (0.45 micron MCE)	9. Type:
10-07-02 10-08-02		Cassette/Filter Manufacture: SILICA Lot #: 03352	Cassette/Filter Manufacture: Lot #:	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☑ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☑ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
S 10S-07	389771			PII - Living Rm	1738	2330	352	1711	1705	1708	601.2		
S 10N-08	389983			PII - Living Rm	1735	2329	354	1718	1702	1710	605.3		
3 S 9N-09	814871			PII - Living Rm	0450	1102	372	2501	2463	2482	923.3		
S 9S-10	389586			PII - Living Rm	0502	1110	368	1696	1684	1690	621.4		
S 8N-11	389798			PII - within kitchen space	0520	1128	368	2507	2479	2493	917.4		
S 8S-12	389775			PII - Living Room	0540	1146	366	2509	2477	2493	912.4		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I R. FISHMAN		10-09-02	
II Fed Exp	[illegible]	10-10-02	0950
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:		
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. SALLEMI

27. Result To: See page 1
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC-WTC_000130043

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

R0210036o

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☑ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP CLEAN UP	15-22906-0002		see page 1
	2a. Project Address: 125 CEDAR ST, NY, NY	3a. Task # 0002	4a. Air Sampler: T. AMSTISLAVSKIY	

5. Date:	6. Abatement Location:	7. ☐ ~~PCM (0.8 micron MCE)~~	8. ☐ TEM (0.45 micron MCE)	9. Type:
10-08-02		Cassette/Filter Manufacture: SILICA Lot #: 03352	Cassette/Filter Manufacture: Lot #:	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☑ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☑ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
S7N-13	389497	✓		PII living room	0600	1206	366	1715	1690	1702.5	623.1		
S7S-14	389488	✓		PII hallway	0620	1224	364	1709	1707	1708	621.7		
S6N-15	389464	✓		PII living room	0638	1245	367	1702	1701	1701.5	624.4		
S6S-16	389596	✓		PII living room	0642	1248	366	2504	2481	2492.5	912.3		
S5S-17	389472	✓		PII living room	1633	2233	360	2499	2492	2495.5	898.4		
S5N-18	389393	✓		PII living room	1649	2250	361	2494	2502	2498	901.8		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I R. FISHMAN		100902	
II [illegible]	[illegible]	101002	0950
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:		
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. SALLEMI

27. Result To: see page 1
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

NYC-WTC_000130044

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

R0210036

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☑ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP CLEAN UP	15-22906-0002		see page 1
	2a. Project Address: 125 CEDAR ST, NY, NY	3a. Task # 0002	4a. Air Sampler: R. ACOSTA	

5. Date:	6. Abatement Location:	7. ☐ ~~PCM (0.8 micron MCE)~~	8. ☐ TEM (0.45 micron MCE)	9. Type:
10 08 02		Cassette/Filter Manufacture: SILICA Lot #: 03352	Cassette/Filter Manufacture: _____ Lot #: _____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11 Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
S 4S-19	389478	✓		PII living room	1720	2322	362	2501	2491	2496	903.6		
S 4N-22	389411	✓		PII hallway	1724	2325	361	1708	1702	1705	615.5		
S 3S-21	389492	✓		PII living room	1823	00:26	363	2509	2500	2504.5	909.1		
S 3N-22	389483	✓		PII living room	1831	00:35	364	1704	1703	1703.5	620.1		
S 2N-23	389583	✓		PII living room	19:00	01:02	362	1699	1698	1698.5	614.9		
S 2S-24	389476	✓		PII living room	19:01	01:05	364	1701	1699	1700	618.8		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I R. FISKMAN		10-09-02	
II Kelly	[signature]	11-1-02	0950
III			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:		
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. SALLEMI

27. Result To: see page 1
Beeper/Phone #'s _____

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field

NY-1 (1/01)

PSC Analytical Services

Sample Receipt Checklist

Client Name ATC ASSOCIATES

Date and Time Receive 10/10/2002 9:50:00 AM

Work Order Numbe R02100360

Received by NAG

Checklist completed by Signature 10/10/02 Date

Reviewed by Initials 10/10/02 Date

Matrix:

Carrier name FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted Date contacted: Person contacted

Contacted by: Regarding:

Comments:

Corrective Action

PSC ANALYTICAL SERVICES

INDUSTRIAL HYGIENE ENVIRONMENTAL TESTING

• EPA/NVLAP 101262-0 • NY DOH/NELAC 10903 • NJ DEP PA020
• AIHA ACCREDITATION NO. 100439 • PA DEP 06-353 • CT DPH PH-0238
• NC DENR 599

Analytical Results
for
ATC Associates

WorkOrder: R02100360
Client Reference: DEP Cleanup, 15-22906-0002

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Test Method	Date Analyzed /Analyst	
Client ID: S 125 CED-25 Blank	**Lab ID:** -01A	**Date Sampled:** 10/7/02		**Matrix:** Filter		**Air Vol.(L):** NA	
Total Particulate Matter	<50.0	--	--	50	N0500	10/11/2002	ADM
Silica (Quartz Total)	<10.0	--	--	10	AIRBORNE SILICA	10/11/2002	ADM
Client ID: SP-01	**Lab ID:** -02A	**Date Sampled:** 10/7/02		**Matrix:** Filter		**Air Vol.(L):** 942.1	
Total Particulate Matter	<50.0	<0.0531	--	50	N0500	10/11/2002	ADM
Silica (Quartz Total)	<10.0	<0.0106	--	10	AIRBORNE SILICA	10/11/2002	ADM
Client ID: S 12N-02	**Lab ID:** -03A	**Date Sampled:** 10/7/02		**Matrix:** Filter		**Air Vol.(L):** 947.3	
Total Particulate Matter	<50.0	<0.0528	--	50	N0500	10/11/2002	ADM
Silica (Quartz Total)	<10.0	<0.0106	--	10	AIRBORNE SILICA	10/11/2002	ADM
Client ID: S12SW-03	**Lab ID:** -04A	**Date Sampled:** 10/7/02		**Matrix:** Filter		**Air Vol.(L):** 632	
Total Particulate Matter	<50.0	<0.0791	--	50	N0500	10/11/2002	ADM
Silica (Quartz Total)	<10.0	<0.0158	--	10	AIRBORNE SILICA	10/11/2002	ADM
Client ID: S12SE-04	**Lab ID:** -05A	**Date Sampled:** 10/7/02		**Matrix:** Filter		**Air Vol.(L):** 926.5	
Total Particulate Matter	<50.0	<0.0540	--	50	N0500	10/11/2002	ADM
Silica (Quartz Total)	<10.0	<0.0108	--	10	AIRBORNE SILICA	10/11/2002	ADM
Client ID: S11N-05	**Lab ID:** -06A	**Date Sampled:** 10/7/02		**Matrix:** Filter		**Air Vol.(L):** 608.5	
Total Particulate Matter	<50.0	<0.0822	--	50	N0500	10/11/2002	ADM
Silica (Quartz Total)	<10.0	<0.0164	--	10	AIRBORNE SILICA	10/11/2002	ADM

PSC ANALYTICAL SERVICES

INDUSTRIAL HYGIENE ENVIRONMENTAL TESTING

• EPA/NVLAP 101262-0 • NY DOH/NELAC 10903 • NJ DEP PA020
• AIHA ACCREDITATION NO. 100439 • PA DEP 06-353 • CT DPH PH-0238
• NC DENR 599

Analytical Results
for
ATC Associates

WorkOrder: R02100360
Client Reference: DEP Cleanup, 15-22906-0002

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Test Method	Date Analyzed /Analyst	
Client ID: S11S-06	**Lab ID:** -07A	**Date Sampled:** 10/7/02		**Matrix:** Filter		**Air Vol.(L):** 860.2	
Total Particulate Matter	<50.0	<0.0581	--	50	N0500	10/11/2002	ADM
Silica (Quartz Total)	<10.0	<0.0116	--	10	AIRBORNE SILICA	10/11/2002	ADM
Client ID: S10S-07	**Lab ID:** -08A	**Date Sampled:** 10/7/02		**Matrix:** Filter		**Air Vol.(L):** 601.2	
Total Particulate Matter	<50.0	<0.0832	--	50	N0500	10/11/2002	ADM
Silica (Quartz Total)	<10.0	<0.0166	--	10	AIRBORNE SILICA	10/11/2002	ADM
Client ID: S10N-08	**Lab ID:** -09A	**Date Sampled:** 10/7/02		**Matrix:** Filter		**Air Vol.(L):** 605.3	
Total Particulate Matter	<50.0	<0.0826	--	50	N0500	10/11/2002	ADM
Silica (Quartz Total)	<10.0	<0.0165	--	10	AIRBORNE SILICA	10/11/2002	ADM
Client ID: S9N-09	**Lab ID:** -10A	**Date Sampled:** 10/8/02		**Matrix:** Filter		**Air Vol.(L):** 923.3	
Total Particulate Matter	<50.0	<0.0542	--	50	N0500	10/11/2002	ADM
Silica (Quartz Total)	<10.0	<0.0108	--	10	AIRBORNE SILICA	10/11/2002	ADM
Client ID: S9S-10	**Lab ID:** -11A	**Date Sampled:** 10/8/02		**Matrix:** Filter		**Air Vol.(L):** 621.9	
Total Particulate Matter	<50.0	<0.0804	--	50	N0500	10/11/2002	ADM
Silica (Quartz Total)	<10.0	<0.0161	--	10	AIRBORNE SILICA	10/11/2002	ADM
Client ID: S8N-11	**Lab ID:** -12A	**Date Sampled:** 10/8/02		**Matrix:** Filter		**Air Vol.(L):** 917.4	
Total Particulate Matter	<50.0	<0.0545	--	50	N0500	10/11/2002	ADM
Silica (Quartz Total)	<10.0	<0.0109	--	10	AIRBORNE SILICA	10/11/2002	ADM

PSC ANALYTICAL SERVICES

INDUSTRIAL HYGIENE ENVIRONMENTAL TESTING

• EPA/NVLAP 101262-0 • NY DOH/NELAC 10903 • NJ DEP PA020
• AIHA ACCREDITATION NO. 100439 • PA DEP 06-353 • CT DPH PH-0238
• NC DENR 599

Analytical Results
for
ATC Associates

WorkOrder: R02100360
Client Reference: DEP Cleanup, 15-22906-0002

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Test Method	Date Analyzed /Analyst	
Client ID: S8S-12	**Lab ID:** -13A	**Date Sampled:** 10/8/02		**Matrix:** Filter		**Air Vol.(L):** 912.4	
Total Particulate Matter	<50.0	<0.0548	--	50	N0500	10/11/2002	ADM
Silica (Quartz Total)	<10.0	<0.0110	--	10	AIRBORNE SILICA	10/11/2002	ADM
Client ID: S7N-13	**Lab ID:** -14A	**Date Sampled:** 10/8/02		**Matrix:** Filter		**Air Vol.(L):** 623.1	
Total Particulate Matter	<50.0	<0.0802	--	50	N0500	10/11/2002	ADM
Silica (Quartz Total)	<10.0	<0.0160	--	10	AIRBORNE SILICA	10/11/2002	ADM
Client ID: S7S-14	**Lab ID:** -15A	**Date Sampled:** 10/8/02		**Matrix:** Filter		**Air Vol.(L):** 621.7	
Total Particulate Matter	<50.0	<0.0804	--	50	N0500	10/11/2002	ADM
Silica (Quartz Total)	<10.0	<0.0161	--	10	AIRBORNE SILICA	10/11/2002	ADM
Client ID: S6N-15	**Lab ID:** -16A	**Date Sampled:** 10/8/02		**Matrix:** Filter		**Air Vol.(L):** 624.4	
Total Particulate Matter	<50.0	<0.0801	--	50	N0500	10/11/2002	ADM
Silica (Quartz Total)	<10.0	<0.0160	--	10	AIRBORNE SILICA	10/11/2002	ADM
Client ID: S6S-16	**Lab ID:** -17A	**Date Sampled:** 10/8/02		**Matrix:** Filter		**Air Vol.(L):** 912.3	
Total Particulate Matter	<50.0	<0.0548	--	50	N0500	10/11/2002	ADM
Silica (Quartz Total)	<10.0	<0.0110	--	10	AIRBORNE SILICA	10/11/2002	ADM
Client ID: S5S-17	**Lab ID:** -18A	**Date Sampled:** 10/8/02		**Matrix:** Filter		**Air Vol.(L):** 898.4	
Total Particulate Matter	<50.0	<0.0557	--	50	N0500	10/11/2002	ADM
Silica (Quartz Total)	<10.0	<0.0111	--	10	AIRBORNE SILICA	10/11/2002	ADM

PSC ANALYTICAL SERVICES

INDUSTRIAL HYGIENE — ENVIRONMENTAL TESTING

- EPA/NVLAP 101262-0
- AIHA ACCREDITATION NO. 100439
- NC DENR 599
- NY DOH/NELAC 10903
- PA DEP 06-353
- NJ DEP PA020
- CT DPH PH-0238

Analytical Results
for
ATC Associates

WorkOrder: R02100360
Client Reference: DEP Cleanup, 15-22906-0002

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Test Method	Date Anal /Analy
Client ID: S5N-18	**Lab ID:** -19A	**Date Sampled:** 10/8/02		**Matrix:** Filter		**Air Vol.(L):** 901.
Total Particulate Matter	<50.0	<0.0554	--	50	N0500	10/11/2002
Silica (Quartz Total)	<10.0	<0.0111	--	10	AIRBORNE SILICA	10/11/2002
Client ID: S4S-19	**Lab ID:** -20A	**Date Sampled:** 10/8/02		**Matrix:** Filter		**Air Vol.(L):** 903.6
Total Particulate Matter	<50.0	<0.0553	--	50	N0500	10/11/2002
Silica (Quartz Total)	<10.0	<0.0111	--	10	AIRBORNE SILICA	10/11/2002
Client ID: S4N-20	**Lab ID:** -21A	**Date Sampled:** 10/8/02		**Matrix:** Filter		**Air Vol.(L):** 615.5
Total Particulate Matter	<50.0	<0.0812	--	50	N0500	10/11/2002 A
Silica (Quartz Total)	<10.0	<0.0162	--	10	AIRBORNE SILICA	10/11/2002 A
Client ID: S3S-21	**Lab ID:** -22A	**Date Sampled:** 10/8/02		**Matrix:** Filter		**Air Vol.(L):** 909.1
Total Particulate Matter	<50.0	<0.0550	--	50	N0500	10/11/2002 AI
Silica (Quartz Total)	<10.0	<0.0110	--	10	AIRBORNE SILICA	10/11/2002 AI
Client ID: S3N-22	**Lab ID:** -23A	**Date Sampled:** 10/8/02		**Matrix:** Filter		**Air Vol.(L):** 620.1
Total Particulate Matter	<50.0	<0.0806	--	50	N0500	10/11/2002 AD
Silica (Quartz Total)	<10.0	<0.0161	--	10	AIRBORNE SILICA	10/11/2002 AD
Client ID: S2N-23	**Lab ID:** -24A	**Date Sampled:** 10/8/02		**Matrix:** Filter		**Air Vol.(L):** 614.9
Total Particulate Matter	<50.0	<0.0813	--	50	N0500	10/11/2002 ADI
Silica (Quartz Total)	<10.0	<0.0163	--	10	AIRBORNE SILICA	10/11/2002 ADI

PSC ANALYTICAL SERVICES

INDUSTRIAL HYGIENE ENVIRONMENTAL TESTING

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Analytical Results
for
ATC Associates

WorkOrder: R02100360
Client Reference: DEP Cleanup, 15-22906-0002

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Test Method	Date Anal /Analy
Client ID: S2S-24	**Lab ID:** -25A	**Date Sampled:** 10/8/02		**Matrix:** Filter		**Air Vol.(L):** 618.
Total Particulate Matter	<50.0	<0.0808	--	50	N0500	10/11/2002
Silica (Quartz Total)	<10.0	<0.0162	--	10	AIRBORNE SILICA	10/11/2002

(a) Analysis indicates possible breakthrough; back section result is greater than 0% of the front section result.

General Notes:
<: Less than the indicated limit of detection (LOD).
--: Information not available or not applicable.
Back sections were checked and showed no significant breakthrough.