



ambient group inc.

Indoor environmental quality surveys
Water treatment consulting
Asbestos & lead field services
Regulatory compliance programs
Air, water & soil analytical laboratories

NATIONAL HEADQUARTERS

55 WEST 39TH STREET
12TH FLOOR
NEW YORK, NEW YORK 10018
TEL: (212) 463-7812
FAX: (212) 463-9397
WEB: WWW.AMBIENTGROUP.COM

October 8, 2001

Mr. Steve Stiles
LVI

PII

**Re: 22 Thames Street, New York City
Ambient Project # 211464**

Dear Mr. Stiles:

The following is a summary of the indoor environmental quality survey that Ambient Group, Inc. performed on October 7, 2001 at the above referenced location. The survey included sampling for airborne dust characterization and air sample collection for TEM analysis, as well as absence/presence of asbestos in settled dust.

Three (3) air samples were collected from various locations on the 9th floor and analyzed by transmission electron microscopy (TEM) for asbestos structures. The results of the analysis indicated that airborne asbestos levels at the time of testing were well below the EPA standard of 70 structures/mm² and other recommended industry guidelines and/or regulations.

Six (6) settled dust samples were collected from various locations on the 9th floor and analyzed for the absence/presence of asbestos. All six (6) settled dust samples collected from the carpet and furniture tops tested negative for the presence of asbestos. Other constituents found in these settled dust samples are all items found in New York City commercial office buildings.

Should you have any questions regarding this information, please feel free to call me.

Sincerely,
Signed for Ambient Group, Inc. by:

John P. Springston, CIH, CSP
Director of Field Operations

GLEN COVE, NY
516 609-0009

MIAMI, FL
305 860-0101

CHICAGO, IL
312 527-5526

ORANGE, CA
714 282-3525

Ambient Group, Inc.
10 Morris Avenue,
Glen Cove 11542
(516) 609-0009

ELAP 10865

**AIRBORNE ASBESTOS STRUCTURES RESULTS
(TRANSMISSION ELECTRON MICROSCOPY - TEM)**

LVI
22 Thames Street
Project Number 211464
Date Collected: 10/7/01

Sample Number	Lab Sample ID	Sample Location	Asbestos Structures/cm ₃
211464-01 Field 3261-01	AEM990 09751	99 th floor/Open Office Area, West side LT ANYL SENS	<0.0049
211400-01 Field 3261-02	AEM990 09752	9 th floor/Office Area, Room 908, North side LT ANYL SENS	<0.0048
211400-01 Field 3261-03	AEM990 09753	9 th floor/Open Office Area, East side LT ANYL SENS	<0.0048

LT ANALY SENS = LESS THAN THE ANALYTICAL SENSITIVITY

ENVIROSCIENCE CONSULTANTS, INC.

2150 SMITHTOWN AVENUE
 RONKONKOMA, NEW YORK 11779-7348
 PHONE: (631) 580-3191 • FACSIMILE (631) 580-3195

B. GALLAGHER
 C. GILBERT, Ph.D.
 T. KLUENDER
 G. NEUSCHWENDER

15 October 2001

P. DERMODY
 E. DETWEILER
 J. DRISCOLL
 G. MENEGIO
 L. SAVARESE

Mr. Kenneth Coffey, President
 TechClean
 242-E Route 109
 Farmingdale, New York 11735
 Phone: 631-454-9595 Facsimile: 631-454-9605

Subject: Follow Up Air and Bulk Sampling Results for the American Stock Exchange, New York, NY.

Dear Mr. Coffey:

This report includes the results of additional tests taken September 21st, and October 2nd, 2001 as well as results from tests taken on September 21 and September 24 and not reported in the 28 September 2001 report. The air and bulk sampling locations and results are reported below. Asbestos samples were collected according to New York State and U.S. EPA standards and analyzed according to U.S. EPA standards using Transmission Electron Microscopy. Other substances were collected and analyzed using the National Institutes for Occupational Safety and Health protocol.

Twenty-seven asbestos micro-vacuum samples were collected because of the concern that asbestos material may be on different surfaces including furniture, carpets, and floors. In all 27 asbestos micro-vacuum samples no asbestos was detected (Tables in rear of report).

Staff access to certain sections of certain floors in 22 Thames was needed before the air testing was completed. However, the bulk samples collected from 22 Thames indicated trace amounts of asbestos and therefore are not considered by NIOSH and OSHA to be a health risk.

Since the 15th floor and the 12th floor had screening levels that were elevated follow up sampling at five different points on each floor was conducted to fully characterize the air lead values. All results for the 15th floor and the 12th floor were below detectable limits. Based on the ten follow up values it is believed that the 15th floor and the 12th floor screening levels were in error. It is relatively easy to contaminate samples in the field or laboratory with lead because there are significant sources of lead in the environment.

86 Trinity Place Lead in Air Results, September 27th, 2001

Location	Air Volume Liters	Results $\mu\text{g}/\text{m}^3$
12 th floor Hallway	1,200	<1.0
12 th floor Robt Gordan office	1,220	<1.0
12 th floor 1207	1,200	<1.0
12 th floor 1211	1,210	<1.0

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12 th floor Water fountain	1,260	< 1.0
15 th floor elevator lobby	1,350	< 1.0
15 th floor north cubicals	1,350	< 1.0
15 th floor hall @ 1505	1,350	< 1.0
15 th floor Stockwatch room	1,340	< 1.0
15 th floor South of hall by men's room	1,340	< 1.0

On Friday, September 28th, and Monday, October 1st, 2001, burning odors or smoke odors from the World Trade Center site were reported in the area surrounding the site and specifically inside the Red Room of the American Stock Exchange. The management team of the American Stock Exchange requested that air samples be collected in the Red Room because of odors. Polynuclear aromatic hydrocarbons (PAHs) were collected because PAHs are produced through combustion of fuels, found in fuels, plastics, and other building components. Acetaldehyde was also added to the PAHs because it is formed during combustion. PAHs samples were collected from 5 areas in the Red Room to represent the air space. The PAHs in air results are presented in the tables below.

22 Thames Post 22 POD # 2, Polynuclear Aromatic Hydrocarbons in Air Results, October 2, 2001

Substance	CAS No.	Results $\mu\text{g}/\text{m}^3$
Acenaphthene	83-32-9	< 50
Acenaphthylene	208-96-8	< 50
Anthracene	120-12-7	< 50
Benzo(a)Anthracene	56-55-3	< 50
Benzo(b)Fluoranthene	205-99-2	< 50
Benzo(k)Fluoranthene	207-08-9	< 50
Benzo(a,h,i)Perylene	191-24-2	< 50
Benzo(a)Pyrene	50-32-8	< 50
Chrysene	218-01-9	< 50
Dibenzo(a,h) Anthracene	53-70-3	< 50
Fluoranthene	206-44-0	< 50
Fluorene	86-73-7	< 50
Indeno(1,2,3-cd) Pyrene	193-39-5	< 50
Napthalene	91-20-3	< 50
Phenanthrene	85-01-8	< 50
Pyrene	129-06-0	< 50
Acetaldehyde	75-07-0	< 50

2150 SMITHTOWN AVENUE
RONKONKOMA, NY 11779
PHONE: (631) 580-3191 • FACSIMILE: (631) 580-3195
WWW.ENVIROHEALTH.ORG

CLIENT:	AMERICAN STOCK EXCHANGE	CHAIN OF CUSTODY:	B-23-26
PROJECT:	ROOF MATERIAL 86 TRINITY 22 THAMES TOP OF TRADE FLOOR	SAMPLER:	L. SAVARESE
		DATE:	JANUARY 31, 2002
PAGE:	1 OF 1	DATE ANALYZED:	FEBRUARY 1, 2002

Reviewed by: _____ **Analyzed by:** _____

Asbestos Containing Materials contain more than 1% asbestos (shown in bold type).
Trace - Asbestos found is 1% or less; not considered ACM.
None Detected - No asbestos found in samples using polarized light microscopy (PLM).
None Detected by TEM - No asbestos found in samples using transmission electron microscopy (TEM).
Inconclusive - No asbestos found in non friable organically bound samples using polarized light microscopy (PLM).
ELAP # 11681

22 Thames Post 21 POD # 7, Polynuclear Aromatic Hydrocarbons in Air Results, October 2, 2001

Substance	CAS No.	Results $\mu\text{g}/\text{m}^3$
Acenaphthene	83-32-9	< 50
Acenaphthylene	208-96-8	< 50
Anthracene	120-12-7	< 50
Benzo(a)Anthracene	56-55-3	< 50
Benzo(b)Fluoranthene	205-99-2	< 50
Benzo(k)Fluoranthene	207-08-9	< 50
Benzo(e,h,i)Perylene	191-24-2	< 50
Benzo(a)Pyrene	50-32-8	< 50
Chrysene	218-01-9	< 50
Dibenzo(a,h) Anthracene	53-70-3	< 50
Fluoranthene	206-44-0	< 50
Fluorene	86-73-7	< 50
Indeno(1,2,3-cd) Pyrene	193-39-5	< 50
Napthalene	91-20-3	< 50
Phenanthrene	85-01-8	< 50
Pyrene	129-00-0	< 50
Acetaldehyde	75-07-0	< 50

22 Thames Post 21 POD # 30, Polynuclear Aromatic Hydrocarbons in Air Results, October 2, 2001

Substance	CAS No.	Results $\mu\text{g}/\text{m}^3$
Acenaphthene	83-32-9	< 50
Acenaphthylene	208-96-8	< 50
Anthracene	120-12-7	< 50
Benzo(a)Anthracene	56-55-3	< 50
Benzo(b)Fluoranthene	205-99-2	< 50
Benzo(k)Fluoranthene	207-08-9	< 50
Benzo(a,h,i)Perylene	191-24-2	< 50
Benzo(a)Pyrene	50-32-8	< 50
Chrysene	218-01-9	< 50
Dibenzo(a,h) Anthracene	53-70-3	< 50
Fluoranthene	206-44-0	< 50
Fluorene	86-73-7	< 50

Indeno(1,2,3-cd) Pyrene	193-39-5	< 50
Naphthalene	91-20-3	< 50
Phenanthrene	85-01-8	< 50
Pyrene	129-00-0	< 50
Acetaldehyde	75-07-0	< 50

22 Thames Post 22 POD # 22, Polynuclear Aromatic Hydrocarbons in Air Results, October 2, 2001

Substance	CAS No.	Results $\mu\text{g}/\text{m}^3$
Acenaphthene	83-32-9	< 50
Acenaphthylene	208-96-8	< 50
Anthracene	120-12-7	< 50
Benzo(a)Anthracene	56-55-3	< 50
Benzo(b)Fluoranthene	205-99-2	< 50
Benzo(k)Fluoranthene	207-08-9	< 50
Benzo(a,h,i)Perylene	191-24-2	< 50
Benzo(a)Pyrene	50-32-8	< 50
Chrysene	218-01-9	< 50
Dibenzo(a,h) Anthracene	53-70-3	< 50
Fluoranthene	206-44-0	< 50
Fluorene	86-73-7	< 50
Indeno(1,2,3-cd) Pyrene	193-39-5	< 50
Naphthalene	91-20-3	< 50
Phenanthrene	85-01-8	< 50
Pyrene	129-00-0	< 50
Acetaldehyde	75-07-0	< 50

22 Thames Post 21 POD # 19, Polynuclear Aromatic Hydrocarbons in Air Results, October 2, 2001

Substance	CAS No.	Results $\mu\text{g}/\text{m}^3$
Acenaphthene	83-32-9	< 50
Acenaphthylene	208-96-8	< 50
Anthracene	120-12-7	< 50
Benzo(a)Anthracene	56-55-3	< 50
Benzo(b)Fluoranthene	205-99-2	< 50
Benzo(k)Fluoranthene	207-08-9	< 50

Benzo(a,h,i)Perylene	191-24-2	< 50
Benzo(a)Pyrene	50-32-8	< 50
Chrysene	218-01-9	< 50
Dibenzo(a,h) Anthracene	53-70-3	< 50
Fluoranthene	206-44-0	< 50
Fluorene	86-73-7	< 50
Indeno(1,2,3-cd) Pyrene	193-39-5	< 50
Naphthalene	91-20-3	< 50
Phenanthrene	85-01-8	< 50
Pyrene	129-00-0	< 50
Acetaldehyde	75-07-0	< 50

The polynuclear aromatic hydrocarbons (PAHs) and acetaldehyde collected from the Red Room are all below detectable limits. The polynuclear aromatic hydrocarbons (PAHs) and Acetaldehyde levels in the Red Room are acceptable. While levels are below detectable limits of the laboratory instruments the odors can certainly be detected by the nose of sensitive people. The ability to smell compounds at very low concentrations (on the order of parts per trillion and even lower for burning and smoke odors) is very disturbing to people. To further compound the problem odors at these levels may cause headaches and nausea, causing them to question the impact on their health.

Please contact me if you have questions at 631-580-3191 or facsimile 631-580-3195, or e-mail <chuckgilbert@envirohealth.org>.

Sincerely,


Charles E. Gilbert, Ph.D., M.S.,
Toxicologist & Epidemiologist

2150 SMITHTOWN AVENUE
RONKONKOMA, NY 11779
PHONE: (631) 580-3191 • FACSIMILE: (631) 580-3195
WWW.ENVIROHEALTH.ORG

CLIENT: TECH CLEAN	CHAIN OF CUSTODY: B-0408
PROJECT: AMERICAN STOCK EXCHANGE 22 THAMES	SAMPLER: B. GALLAGHER
	DATE: SEPTEMBER 20, 2001
PAGE: 1 OF 1	DATE ANALYZED: SEPTEMBER 24, 2001

Reviewed by: Edna M. Smith Analyzed by: 240

ELAP # 11681

ENVIROSCIENCE CONSULTANTS, INC.

2150 SMITHTOWN AVENUE
 RCN KONGOMA, NY 11779
 PHONE: (631) 580-3191 • FACSIMILE: (631) 580-3195
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MICRO VACUUM SAMPLE RESULTS

CLIENT: TECH CLEAN	CHAIN OF CUSTODY: B05-18
PROJECT: AMERICAN STOCK EXCHANGE 22 THAMES	SAMPLER: B. GALLAGHER
	DATE: SEPTEMBER 24, 2001
PAGE: 1 OF 1	DATE ANALYZED: SEPTEMBER 25, 2001

SAMPLE #	DESCRIPTION / LOCATION	RESULT
MV1	First floor cafeteria lower level seating area, carpet	None Detected
MV2	First floor cafeteria upper seating area, tile floor	None Detected
MV3	First floor cafeteria serving area, tile floor	None Detected
MV4	8th floor room 801, carpet	None Detected
MV5	8th floor room 802, computer screen rack 2	None Detected
MV6	8th floor room 806, northwest office desk	None Detected
MV7	8th floor by elevators	None Detected
MV8	8th floor room 810	None Detected
MV9	8th floor main room	None Detected
MV10	5th floor near elevator	None Detected
MV11	5th floor room 514	None Detected
MV12	5th floor fire escape near room 526	None Detected

Reviewed by:  Analyzed by: 

Asbestos Containing Materials contain more than 1% asbestos (shown in bold type).

Trace - Asbestos found is 1% or less; not considered ACM.

None Detected - No asbestos found in samples using polarized light microscopy (PLM).

None Detected by TEM - No asbestos found in samples using transmission electron microscopy (TEM).

Inconclusive - No asbestos found in non friable organically bound samples using polarized light microscopy (PLM).

ELAP # 11681

AMBIENT GROUP, INC. - LONG ISLAND

(516) 629-8271

10/26/01 12:48P P.002

AMBIENT GROUP, INC.
10 MORRIS AVENUE
GLEN COVE, NY 11542

DUST CHARACTERIZATION LABORATORY DATA REPORT

PROJECT ID: 211464

CLIENT: LVI

LOCATION: 22 THAMES STREET

TECHNICIAN: PETER SCHORK

DATE COLLECTED: 10/7/01

DATE RECEIVED: 10/8/01

DATE ANALYZED: 10/8/01

FIELD ID LABORATORY ID	DESCRIPTION	SAMPLE CONSTITUENTS	PERCENT OF SAMPLE **
211464-VAC-01 DB2783	9TH FLOOR: WEST SIDE, VACUUM SAMPLE FROM CARPET	CELLULOSE COTTON WOOL FIBER GLASS GRAVEL ROAD DUST DECAYED ORGANIC MATTER TOTAL	10.0% 20.0% 20.0% 20.0% 20.0% 10.0% 100.0%
211464-VAC-02 DB2784	9TH FLOOR: NORTH SIDE, VACUUM SAMPLE FROM CARPET	CELLULOSE COTTON SYNTHETIC FIBER FIBER GLASS CEMENT DUST GRAVEL ROAD DUST CARBON PARTICLES DECAYED ORGANIC MATTER TOTAL	10.0% 20.0% 20.0% 10.0% 10.0% 10.0% 6.0% 15.0% 100.0%

Signed for Ambient Group Inc. by,

Tarek Fata

TAREX FATA

ND = Not Detected, NA = Not Analyzed. There are two (2) types of dust sample submitted for analysis: Settled = Samples submitted on testpuff. Airborne = Samples submitted in Air-Q-Cell Cassettes. All results disclosed in this report relate only to the tests tested. No reproduction of this report shall occur without written approval of Ambient Group Inc. Unless otherwise directed by the Client, Ambient Group Inc. will retain the samples tested in 90% report for five (5) days after which they may be disposed of in accordance with applicable regulations.

AMBIENT GROUP, INC.
10 MORRIS AVENUE
GLEN COVE, NY 11542

DUST CHARACTERIZATION LABORATORY DATA REPORT

PROJECT ID: 211484
CLIENT: LVI
LOCATION: 22 THAMES STREET
TECHNICIAN: PETER SCHORK

DATE COLLECTED: 10/7/01
DATE RECEIVED: 10/8/01
DATE ANALYZED: 10/8/01

FIELD ID LABORATORY ID	DESCRIPTION	SAMPLE CONSTITUENTS	PERCENT OF SAMPLE **
211484-VAC-03 DB2785	9TH FLOOR: EAST SIDE, VACUUM SAMPLE FROM CARPET	CELLULOSE WOOD FIBER SYNTHETIC FIBER FIBER GLASS GRAVEL ROAD DUST CARBON PARTICLES DECAYED ORGANIC MATTER TOTAL	10.0% 5.0% 30.0% 10.0% 20.0% 5.0% 20.0% 100.0%

Signed for Ambient Group Inc. by,

Tarek Fata

TAREK FATA

ND - None Detected, NA - Not Analyzed. There are two (2) types of dust sample submitted for analysis: Settled - Samples submitted on tape/buff, Airborne - Samples submitted in Air-O-Cell Cassettes. All results disclosed in this report relate only to the items tested. No reproduction of all or any portion of this report shall occur without written approval of Ambient Group Inc. Unless otherwise directed by the Client, Ambient Group Inc. will retain the samples tested in this report for five (5) days, after which time they may be disposed of in accordance with applicable regulations.

AMBIENT GROUP, INC.
10 MORRIS AVENUE
GLEN COVE, NY 11542

DUST CHARACTERIZATION LABORATORY DATA REPORT

PROJECT ID: 211484
CLIENT: LVI
LOCATION: 22 THAMES STREET
TECHNICIAN: PETER SCHORK

DATE COLLECTED: 10/7/01
DATE RECEIVED: 10/8/01
DATE ANALYZED: 10/8/01

FIELD ID LABORATORY ID	DESCRIPTION	SAMPLE CONSTITUENTS	PERCENT OF SAMPLE **
211484-WIPE-01 DB2786	9TH FLOOR: WEST SIDE, DESK TOP	CELLULOSE FIBER GLASS GRAVEL ROAD DUST CARBON PARTICLES DECAYED ORGANIC MATTER TOTAL	10.0% 10.0% 20.0% 20.0% 40.0% 100.0%
211484-WIPE-02 DB2787	9TH FLOOR: NORTH SIDE, TOP OF FILING CABINET	CELLULOSE FIBER GLASS GRAVEL ROAD DUST CARBON PARTICLES DECAYED ORGANIC MATTER TOTAL	10.0% 10.0% 20.0% 20.0% 40.0% 100.0%

Signed for Ambient Group Inc. by,

Tarek Fata

TAREK FATA

ND = None Detected, NA = Not Analyzed. There are two (2) types of dust sample submitted for analysis: Settled = Samples submitted on tape/buff, Airborne = Samples submitted in Air-O-Cel Cassette. All results discussed in this report relate only to the items tested. No reproduction of all or any portion of this report shall occur without written approval of Ambient Group Inc. Unless otherwise directed by the Client, Ambient Group Inc. will retain the samples listed in this report for five (5) days, after which time they may be disposed of in accordance with applicable regulations.

AMBIENT GROUP, INC.
10 MORRIS AVENUE
GLEN COVE, NY 11542

DUST CHARACTERIZATION LABORATORY DATA REPORT

PROJECT ID: 211464
CLIENT: LVI
LOCATION: 22 THAMES STREET
TECHNICIAN: PETER SCHORK

DATE COLLECTED: 10/7/01
DATE RECEIVED: 10/8/01
DATE ANALYZED: 10/8/01

FIELD ID LABORATORY ID	DESCRIPTION	SAMPLE CONSTITUENTS	PERCENT OF SAMPLE **
211464-WIPE-03 D82788	9TH FLOOR: EAST SIDE, DESK TOP	CELLULOSE	10.0%
		FIBER GLASS	10.0%
		GRAVEL ROAD DUST	20.0%
		CARBON PARTICLES	20.0%
		DECAYED ORGANIC MATTER	40.0%
		TOTAL	100.0%

Signed for Ambient Group Inc. by,

Tarek Fata

TAREK FATA

ND = None Detected, NA = Not Analyzed, There are two (2) types of dust sample submitted for analysis: Settled = Samples submitted on tape/substrate. Airborne = Samples submitted in Air-O-Cell Cassettes. All results disclosed in this report refers only to the items listed. No representation of all or any portion of this report shall occur without written approval of Ambient Group Inc. Unless otherwise directed by the Client, Ambient Group Inc. will retain the samples listed in this report for five (5) days, after which time they may be disposed of in accordance with applicable regulations.