

ENVIROSCIENCE CONSULTANTS, INC.

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

B. SALLASHEK
 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	126-12-7	< 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	129-00-0	< 50
Acetaldehyde	75-07-0	< 50

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
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 # 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

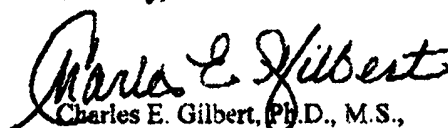
Substance	CAS No.	Results $\mu\text{g}/\text{m}^3$
Acenaphthene	83-32-9	< 50
Acenaphthylene	208-96-8	< 50
Anthracene	120-12-7	< 50
Benzo(a)Anthracene	56-55-3	< 50
Benzo(b)Fluoranthene	205-99-2	< 50
Benzo(k)Fluoranthene	207-08-9	< 50

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
Napthalene	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-04-08
PROJECT: AMERICAN STOCK EXCHANGE 22 THAMES	SAMPLER: B. GALLAGHER
	DATE: SEPTEMBER 20, 2001
PAGE: 1 OF 1	DATE ANALYZED: SEPTEMBER 24, 2001

[illegible]

Reviewed by: Edith B. Smith Analyzed by: 2940

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

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).

NYC-WTC 000095156

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PHONE: (631) 580-3191 • FACSIMILE: (631) 580-3195
WWW.ENVIROHEALTH.ORG

CLIENT: TECH CLEAN	CHAIN OF CUSTODY: B-04-10
PROJECT: AMERICAN STOCK EXCHANGE 22 THAMES	SAMPLER: B. GALLAGHER
	DATE: SEPTEMBER 21, 2001
PAGE: 1 OF 1	DATE ANALYZED: SEPTEMBER 24, 2001

[illegible]

Reviewed by: *Edmund J. Stehly* Analyzed by: *LEAD*

Analyzed by:

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

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

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 ROCHESTER, NY 11779
 PHONE: (631) 580-3191 • FACSIMILE: (631) 580-3195
 WWW.ENVIROHEALTH.ORG

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	6th floor room 610	None Detected
MV9	6th 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 # 11691