

Gilsenan, Michael

From: Nace.Charles@epamail.epa.gov
Sent: Tuesday, March 18, 2003 11:59 AM
To: Theodorellys, Penny
Cc: Radhakrishnan, Krish; Gilsenan, Michael; Maddaloni.Mark@epamail.epa.gov; Callahan.Kathy@epamail.epa.gov; LaPosta.Dore@epamail.epa.gov
Subject: Re: FW: PAH results US DEP - WTC



R03030157 Cover
Letter.pdf



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Penny,

I am back from vacation and had a chance to take a look at the data (i.e., asbestos, lead and PAH) from 114 Liberty that you sent over last week. Overall the data that you sent looks good but there are several problems with the reporting limits (i.e., analytical sensitivity).

1) The PAH data indicates that the reporting limit used is 5 ug. This does not allow us to compare the results to the health-based benchmark because the reporting limit is higher than the benchmark. The reporting limit that was supposed to be used was 1 ug (as stated on page 3, item #5 in the scope of work). I hope future PAH analyses can use the appropriate reporting limit as it will result in data that can be compared to the health-based benchmark.

2) The asbestos data indicates that the reporting limit used is 0.0009 s/cc. This is acceptable for comparing to the health-based benchmark but the reporting limit that was supposed to be used was 0.0004 s/cc (as stated on page 4, Asbestos Collection and Analysis, item #2). Using the lower reporting limit will add confidence that the concentrations are below the health-based benchmark rather than being "at" the health-based benchmark and it is also what is being used in our residential cleaning project and it is what was used for 125 Cedar Street.

3) The lead data indicates that the reporting limit used is 20 ug/ft2. Again, this is acceptable for comparing to the health-based benchmark of 25 ug/ft2, but for our projects we used a reporting limit of 2.32 ug/ft2 and a reporting limit of 9 ug/ft2 was used for 125 Cedar Street.

A summary of the data I have received to data is presented below:

Asbestos - TEM

40 samples at or below the health-based benchmark of 0.0009 (28 were below the reporting limit of 0.0009), 1 above health-based benchmark @ 0.0018 s/cc

Asbestos/Fibrous Glass - PCM

3 samples were below the health-based benchmark of 0.01 f/cc and 2 samples were overloaded and could not be analyzed.

Lead

13 samples were above the health-based benchmark of 25 ug/ft2 and 17 samples were below the analytical sensitivity of 20 ug/ft2.

PAH

30 samples were below the reporting limit of 5ug. The resulting TEF for each sample would be 580 ug/m2 which is above the current health-based benchmark of 300 ug/m2. This is why a reporting limit of 1 ug should be used (i.e., item #1 above).

I look forward to seeing the dioxin and silica data when it is ready to be released.

Thanks,

Chuck Nace
Environmental Toxicologist

USEPA - Region 2
290 Broadway - 18th Floor
New York, NY 10007-1866

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212.637.4360 - fax
nace.charles@epa.gov

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Penny"
<ptheodorellys@de
<mgilsenan@dep.nyc.gov>, Charles Nace/R2/USEPA/US@EPA,
p.nyc.gov>
<kradhakrishnan@dep.nyc.gov>
03/17/2003 11:57
AM
To: Charles Nace/R2/USEPA/US@EPA
cc: "Gilsenan, Michael"
"Radhakrishnan, Krish"
Subject: FW: PAH results US DEP - WTC

-----Original Message-----

From: Andrew Gasparro [mailto:agasparro@jlcenvironmental.com]
<mailto:[mailto:agasparro@jlcenvironmental.com]>
Sent: Monday, March 17, 2003 10:53 AM
To: 'Theodorellys, Penny'
Subject: FW: PAH results US DEP - WTC

<<R03030157 Cover Letter.pdf>> <<R03030157 Report.pdf>> <<R03030158
Cover
Letter.pdf>> <<R03030158 Report.pdf>> Penny,

Top of the morning to you.
I wanted to forward to you the results of our PAH and Dioxin wipe
Samples.
If you have any questions please feel free to call me at any time.
Thank you,

Andrew L. Gasparro
Vice President
JLC Environmental Consultants, Inc.
200 Park Ave. S. Suite 1001
New York, NY 10003
212-420-8119
212-420-6092 Fax
917-612-4803 Cell

-----Original Message-----

From: Usbeck, Fred [mailto:FUsbeck@contactpsc.com]
<mailto:[mailto:FUsbeck@contactpsc.com]>
Sent: Friday, March 14, 2003 4:17 PM

To: agasparro@jlcenvironmental.com
<mailto:agasparro@jlcenvironmental.com>
Subject: PAH results US DEP - WTC

Andrew -

Attached are the PAH results for the WTC project. We broke it into 2 sample

delivery groups to make reporting/QA easier.

If you have any questions please get back to me. Original hard copy will

follow by mail.

thanks! Fred

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Letter.pdf>> <<R03030158 Report.pdf>>

Fred Usbeck, CIH

PSC Analytical Services

4418 Pottsville Pike

Reading, PA 19605

fusbeck@contactpsc.com <mailto:fusbeck@contactpsc.com>

(610) 921-8833 ext. 224

(See attached file: R03030157 Cover Letter.pdf) (See attached file:
R03030157 Report.pdf) (See attached file: R03030158 Cover Letter.pdf) (See
attached file: R03030158 Report.pdf)



4418 Pottsville Pike Reading, PA 19605
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INDUSTRIAL HYGIENE

•EPA PA-00136
•AIHA ACCREDITATION NO. 100439
•NC DENR 599

ENVIRONMENTAL TESTING

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

March 14, 2003

Andrew Gasparro
JLC Env. Consultants Inc.
200 Park Ave S
Suite 1001
New York, NY 10003-1503

TEL: (212) 420-8119
FAX (212) 420-6092

RE: US DEP WTC - LBA (Dioxin & PAH wipes)

Order No.: R03030157

Dear Andrew Gasparro:

PSC Analytical Services received 15 samples on 3/6/2003 10:10:00 AM for the analyses presented in the following Certificate of Analytical Results.

The analyses and all data for associated QC met regulatory and/or laboratory specifications. Exceptions will be noted in an enclosed Case Narrative.

The results on the attached Certificate of Analytical results relate only to items tested or to the samples as received by the laboratory. This Certificate of Analytical Results shall not be reproduced, except in full, without the written approval of PSC Analytical, Reading, PA.

Please note that any unused portion of the samples will be disposed of 30 days following issuance of report, unless you have requested otherwise.

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

Sincerely,

Fred Usbeck
Manager, CIH

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ENVIRONMENTAL TESTING

•NY DOH/NELAC 10903
•PA DEP 05-353
•NJ DEP PA020
•CT DPH PH-0238

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030157

Lab ID: R03030157-01

Collection Date: 3/5/2003

Client Sample ID: 04, 8th Flr (Floor Hallway)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/10/2003 6:20:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/10/2003 6:20:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/10/2003 6:20:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/10/2003 6:20:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/10/2003 6:20:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 6:20:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/10/2003 6:20:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 6:20:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/10/2003 6:20:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/10/2003 6:20:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 6:20:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/10/2003 6:20:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/10/2003 6:20:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/10/2003 6:20:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/10/2003 6:20:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/10/2003 6:20:00 PM

Qualifiers:

BRL - Below Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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•NY DOH/NELAC 10903
 •PA DEP 05-353
 •NJ DEP PA020
 •CT DPH PH-0238

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030157

Lab ID: R03030157-02

Collection Date: 3/5/2003

Client Sample ID: 05, 8th Flr (Wall Living Rm, Lo

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS						
		SW8270C				Analyst: CXA
Acenaphthene	BRL	5.0		µg, Total	1	3/10/2003 6:44:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/10/2003 6:44:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/10/2003 6:44:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/10/2003 6:44:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/10/2003 6:44:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 6:44:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/10/2003 6:44:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 6:44:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/10/2003 6:44:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/10/2003 6:44:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 6:44:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/10/2003 6:44:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/10/2003 6:44:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/10/2003 6:44:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/10/2003 6:44:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/10/2003 6:44:00 PM

Qualifiers:

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 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range



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ENVIRONMENTAL TESTING

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

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030157

Lab ID: R03030157-03

Collection Date: 3/5/2003

Client Sample ID: 06, 8th Flr (Countertop Kitchen)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/10/2003 7:09:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/10/2003 7:09:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/10/2003 7:09:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/10/2003 7:09:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/10/2003 7:09:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 7:09:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/10/2003 7:09:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 7:09:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/10/2003 7:09:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/10/2003 7:09:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 7:09:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/10/2003 7:09:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/10/2003 7:09:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/10/2003 7:09:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/10/2003 7:09:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/10/2003 7:09:00 PM

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 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range



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ENVIRONMENTAL TESTING

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

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030157

Lab ID: R03030157-04

Collection Date: 3/5/2003

Client Sample ID: 04, 5th Flr (Floor Hallway)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/10/2003 7:34:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/10/2003 7:34:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/10/2003 7:34:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/10/2003 7:34:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/10/2003 7:34:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 7:34:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/10/2003 7:34:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 7:34:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/10/2003 7:34:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/10/2003 7:34:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 7:34:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/10/2003 7:34:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/10/2003 7:34:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/10/2003 7:34:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/10/2003 7:34:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/10/2003 7:34:00 PM

Qualifiers:

BRL - Below Reporting Limit

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R - RPD outside accepted recovery limits

E - Value above quantitation range

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ENVIRONMENTAL TESTING

•NY DOH/NELAC 10903
 •PA DEP 05-353
 •NJ DEP PA020
 •CT DPH PH-0238

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030157

Lab ID: R03030157-05

Collection Date: 3/5/2003

Client Sample ID: 05, 5th Flr (Wall Bathrm, Lower

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/10/2003 7:58:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/10/2003 7:58:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/10/2003 7:58:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/10/2003 7:58:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/10/2003 7:58:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 7:58:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/10/2003 7:58:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 7:58:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/10/2003 7:58:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/10/2003 7:58:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 7:58:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/10/2003 7:58:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/10/2003 7:58:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/10/2003 7:58:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/10/2003 7:58:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/10/2003 7:58:00 PM

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ENVIRONMENTAL TESTING

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

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030157

Lab ID: R03030157-06

Collection Date: 3/5/2003

Client Sample ID: 06, 5th Flr (Countertop Kitchen)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/10/2003 8:23:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/10/2003 8:23:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/10/2003 8:23:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/10/2003 8:23:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/10/2003 8:23:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 8:23:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/10/2003 8:23:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 8:23:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/10/2003 8:23:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/10/2003 8:23:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 8:23:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/10/2003 8:23:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/10/2003 8:23:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/10/2003 8:23:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/10/2003 8:23:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/10/2003 8:23:00 PM

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ENVIRONMENTAL TESTING

•NY DOH/NELAC 10903
•PA DEP 05-353
•NJ DEP PA020
•CT DPH PH-0238

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030157

Lab ID: R03030157-07

Collection Date: 3/4/2003

Client Sample ID: 04, 10th Flr (Floor Hallway)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/10/2003 8:48:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/10/2003 8:48:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/10/2003 8:48:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/10/2003 8:48:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/10/2003 8:48:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 8:48:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/10/2003 8:48:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 8:48:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/10/2003 8:48:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/10/2003 8:48:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 8:48:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/10/2003 8:48:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/10/2003 8:48:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/10/2003 8:48:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/10/2003 8:48:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/10/2003 8:48:00 PM

Qualifiers:

BRL - Below Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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4418 Pottsville Pike Reading, PA 19605
(Tel) 610-921-8833 (Fax) 610-921-9667

INDUSTRIAL HYGIENE

•EPA PA-00136
•AIHA ACCREDITATION NO. 100439
•NC DENR 599

ENVIRONMENTAL TESTING

•NY DOH/NELAC 10908
•PA DEP 06-353
•CT DPH PH-0238

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030157

Lab ID: R03030157-08

Collection Date: 3/4/2003

Client Sample ID: 05, 10th Flr (Wall Kitchen)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/10/2003 9:12:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/10/2003 9:12:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/10/2003 9:12:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/10/2003 9:12:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/10/2003 9:12:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 9:12:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/10/2003 9:12:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 9:12:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/10/2003 9:12:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/10/2003 9:12:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 9:12:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/10/2003 9:12:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/10/2003 9:12:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/10/2003 9:12:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/10/2003 9:12:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/10/2003 9:12:00 PM

Qualifiers:

BRL - Below Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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4418 Pottsville Pike Reading, PA 19605
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INDUSTRIAL HYGIENE

•EPA PA-00136
 •AIHA ACCREDITATION NO. 100439
 •NC DENR 599

ENVIRONMENTAL TESTING

•NY DOH/NELAC 10903
 •PA DEP 05-353
 •NJ DEP PA020
 •CT DPH PH-0238

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030157

Lab ID: R03030157-09

Collection Date: 3/4/2003

Client Sample ID: 06, 10th Flr (Countertop Kitchen

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/10/2003 9:37:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/10/2003 9:37:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/10/2003 9:37:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/10/2003 9:37:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/10/2003 9:37:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 9:37:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/10/2003 9:37:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 9:37:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/10/2003 9:37:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/10/2003 9:37:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 9:37:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/10/2003 9:37:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/10/2003 9:37:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/10/2003 9:37:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/10/2003 9:37:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/10/2003 9:37:00 PM

Qualifiers:
 BRL - Below Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range



4418 Pottsville Pike Reading, PA 19605
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INDUSTRIAL HYGIENE

•EPA PA-00136
 •AIHA ACCREDITATION NO. 100439
 •NC DENR 599

ENVIRONMENTAL TESTING

•NY DOH/NELAC 10908
 •PA DEP 05-353
 •NJ DEP PA020
 •CT DPH PH-0238

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030157

Lab ID: R03030157-10

Collection Date: 3/5/2003

Client Sample ID: 04, 7th Flr (Floor Hallway)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/10/2003 10:01:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/10/2003 10:01:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/10/2003 10:01:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/10/2003 10:01:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/10/2003 10:01:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 10:01:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/10/2003 10:01:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 10:01:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/10/2003 10:01:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/10/2003 10:01:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 10:01:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/10/2003 10:01:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/10/2003 10:01:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/10/2003 10:01:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/10/2003 10:01:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/10/2003 10:01:00 PM

Qualifiers:

BRL - Below Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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4418 Pottsville Pike Reading, PA 19606
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INDUSTRIAL HYGIENE

•EPA PA-00136
•AIHA ACCREDITATION NO. 100439
•NC DENR 599

ENVIRONMENTAL TESTING

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

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030157

Lab ID: R03030157-11

Collection Date: 3/5/2003

Client Sample ID: 05, 7th Flr (Wall Living Rm, Rt)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/10/2003 10:26:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/10/2003 10:26:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/10/2003 10:26:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/10/2003 10:26:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/10/2003 10:26:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 10:26:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/10/2003 10:26:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 10:26:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/10/2003 10:26:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/10/2003 10:26:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 10:26:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/10/2003 10:26:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/10/2003 10:26:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/10/2003 10:26:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/10/2003 10:26:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/10/2003 10:26:00 PM

Qualifiers:

BRL - Below Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range



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INDUSTRIAL HYGIENE

•EPA PA-00136
 •AIHA ACCREDITATION NO. 100439
 •NC DENR 599

ENVIRONMENTAL TESTING

•NY DOH/NELAC 10908
 •PA DEP 06-353
 •NJ DEP PA020
 •CT DPH PH-0238

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030157

Lab ID: R03030157-12

Collection Date: 3/5/2003

Client Sample ID: 06, 7th Flr (Countertop Kitchen)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/10/2003 10:50:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/10/2003 10:50:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/10/2003 10:50:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/10/2003 10:50:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/10/2003 10:50:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 10:50:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/10/2003 10:50:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 10:50:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/10/2003 10:50:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/10/2003 10:50:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 10:50:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/10/2003 10:50:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/10/2003 10:50:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/10/2003 10:50:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/10/2003 10:50:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/10/2003 10:50:00 PM

Qualifiers:

BRL - Below Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

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INDUSTRIAL HYGIENE

•EPA PA-00136
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 •NC DENR 599

ENVIRONMENTAL TESTING

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

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030157

Lab ID: R03030157-13

Collection Date: 3/5/2003

Client Sample ID: 04, 9th Flr (Floor Hallway)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/10/2003 11:15:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/10/2003 11:15:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/10/2003 11:15:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/10/2003 11:15:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/10/2003 11:15:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 11:15:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/10/2003 11:15:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 11:15:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/10/2003 11:15:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/10/2003 11:15:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 11:15:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/10/2003 11:15:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/10/2003 11:15:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/10/2003 11:15:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/10/2003 11:15:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/10/2003 11:15:00 PM

Qualifiers:

BRL - Below Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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INDUSTRIAL HYGIENE

•EPA PA-00136
 •AIHA ACCREDITATION NO. 100439
 •NC DENR 599

ENVIRONMENTAL TESTING

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

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030157

Lab ID: R03030157-14

Collection Date: 3/5/2003

Client Sample ID: 05, 9th Flr (Wall Bathroom, Upp

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/10/2003 11:40:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/10/2003 11:40:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/10/2003 11:40:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/10/2003 11:40:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/10/2003 11:40:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 11:40:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/10/2003 11:40:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 11:40:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/10/2003 11:40:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/10/2003 11:40:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/10/2003 11:40:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/10/2003 11:40:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/10/2003 11:40:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/10/2003 11:40:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/10/2003 11:40:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/10/2003 11:40:00 PM

Qualifiers:
 BRL - Below Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range



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INDUSTRIAL HYGIENE

•EPA PA-00136
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 •NC DENR 599

ENVIRONMENTAL TESTING

•NY DOH/NELAC 10908
 •PA DEP 06-353
 •NJ DEP PA020
 •CT DPH PH-0288

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030157

Lab ID: R03030157-15

Collection Date: 3/5/2003

Client Sample ID: 06, 9th Flr (Countertop Kitchen)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/11/2003 12:04:00 AM
Acenaphthylene	BRL	5.0		µg, Total	1	3/11/2003 12:04:00 AM
Anthracene	BRL	5.0		µg, Total	1	3/11/2003 12:04:00 AM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/11/2003 12:04:00 AM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/11/2003 12:04:00 AM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 12:04:00 AM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/11/2003 12:04:00 AM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 12:04:00 AM
Chrysene	BRL	5.0		µg, Total	1	3/11/2003 12:04:00 AM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/11/2003 12:04:00 AM
Fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 12:04:00 AM
Fluorene	BRL	5.0		µg, Total	1	3/11/2003 12:04:00 AM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/11/2003 12:04:00 AM
Naphthalene	BRL	5.0		µg, Total	1	3/11/2003 12:04:00 AM
Phenanthrene	BRL	5.0		µg, Total	1	3/11/2003 12:04:00 AM
Pyrene	BRL	5.0		µg, Total	1	3/11/2003 12:04:00 AM

Qualifiers:

BRL - Below Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range



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INDUSTRIAL HYGIENE

•EPA PA-00136
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•NC DENR 599

ENVIRONMENTAL TESTING

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

March 14, 2003

Andrew Gasparro
JLC Env. Consultants Inc.
200 Park Ave S
Suite 1001
New York, NY 10003-1503

TEL: (212) 420-8119
FAX (212) 420-6092

RE: US DEP WTC - LBA (Dioxin & PAH wipes)

Order No.: R03030158

Dear Andrew Gasparro:

PSC Analytical Services received 15 samples on 3/6/2003 10:10:00 AM for the analyses presented in the following Certificate of Analytical Results.

The analyses and all data for associated QC met regulatory and/or laboratory specifications. Exceptions will be noted in an enclosed Case Narrative.

The results on the attached Certificate of Analytical results relate only to items tested or to the samples as received by the laboratory. This Certificate of Analytical Results shall not be reproduced, except in full, without the written approval of PSC Analytical, Reading, PA.

Please note that any unused portion of the samples will be disposed of 30 days following issuance of report, unless you have requested otherwise.

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

Sincerely,

Fred Usbeck
Manager, CIH

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



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INDUSTRIAL HYGIENE

•EPA PA-00135
 •AIHA ACCREDITATION NO. 100439
 •NC DENR 599

ENVIRONMENTAL TESTING

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

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030158

Lab ID: R03030158-01

Collection Date: 3/5/2003

Client Sample ID: 04, 6th Fl (Floor Hallway)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/11/2003 4:09:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/11/2003 4:09:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/11/2003 4:09:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/11/2003 4:09:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/11/2003 4:09:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 4:09:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/11/2003 4:09:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 4:09:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/11/2003 4:09:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/11/2003 4:09:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 4:09:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/11/2003 4:09:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/11/2003 4:09:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/11/2003 4:09:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/11/2003 4:09:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/11/2003 4:09:00 PM

Qualifiers:

BRL - Below Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range



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INDUSTRIAL HYGIENE

•EPA PA-00136
 •AIHA ACCREDITATION NO. 100439
 •NC DENR 599

ENVIRONMENTAL TESTING

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

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030158

Lab ID: R03030158-02

Collection Date: 3/5/2003

Client Sample ID: 05, 6th Fl (Wall Bathrm, Lower

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/11/2003 4:34:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/11/2003 4:34:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/11/2003 4:34:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/11/2003 4:34:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/11/2003 4:34:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 4:34:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/11/2003 4:34:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 4:34:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/11/2003 4:34:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/11/2003 4:34:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 4:34:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/11/2003 4:34:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/11/2003 4:34:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/11/2003 4:34:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/11/2003 4:34:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/11/2003 4:34:00 PM

Qualifiers:

BRL - Below Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

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INDUSTRIAL HYGIENE

•EPA PA-00136
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 •NC DENR 599

ENVIRONMENTAL TESTING

•NY DOH/NELAC 10908
 •PA DEP 06-353
 •NJ DEP PA020
 •CT DPH PH-0288

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030158

Lab ID: R03030158-03

Collection Date: 3/5/2003

Client Sample ID: 06, 6th Fl (Countertop Kitchen)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/11/2003 4:58:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/11/2003 4:58:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/11/2003 4:58:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/11/2003 4:58:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/11/2003 4:58:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 4:58:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/11/2003 4:58:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 4:58:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/11/2003 4:58:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/11/2003 4:58:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 4:58:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/11/2003 4:58:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/11/2003 4:58:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/11/2003 4:58:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/11/2003 4:58:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/11/2003 4:58:00 PM

Qualifiers:

BRL - Below Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range



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INDUSTRIAL HYGIENE

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 •NC DENR 599

ENVIRONMENTAL TESTING

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

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030158

Lab ID: R03030158-04

Collection Date: 3/5/2003

Client Sample ID: 04, 3rd Fl (Floor Hallway)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/11/2003 5:23:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/11/2003 5:23:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/11/2003 5:23:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/11/2003 5:23:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/11/2003 5:23:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 5:23:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/11/2003 5:23:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 5:23:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/11/2003 5:23:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/11/2003 5:23:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 5:23:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/11/2003 5:23:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/11/2003 5:23:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/11/2003 5:23:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/11/2003 5:23:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/11/2003 5:23:00 PM

Qualifiers:

BRL - Below Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range



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INDUSTRIAL HYGIENE

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ENVIRONMENTAL TESTING

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

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030158

Lab ID: R03030158-05

Collection Date: 3/5/2003

Client Sample ID: 05, 3rd Fl (Wall Bathrm, Lower

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/11/2003 5:48:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/11/2003 5:48:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/11/2003 5:48:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/11/2003 5:48:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/11/2003 5:48:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 5:48:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/11/2003 5:48:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 5:48:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/11/2003 5:48:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/11/2003 5:48:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 5:48:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/11/2003 5:48:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/11/2003 5:48:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/11/2003 5:48:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/11/2003 5:48:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/11/2003 5:48:00 PM

Qualifiers:

BRL - Below Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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ENVIRONMENTAL TESTING

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 •PA DEP 06-353
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 •CT DPH PH-0238

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030158

Lab ID: R03030158-06

Collection Date: 3/5/2003

Client Sample ID: 06, 3rd Fl (Countertop Kitchen)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/11/2003 6:12:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/11/2003 6:12:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/11/2003 6:12:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/11/2003 6:12:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/11/2003 6:12:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 6:12:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/11/2003 6:12:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 6:12:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/11/2003 6:12:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/11/2003 6:12:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 6:12:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/11/2003 6:12:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/11/2003 6:12:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/11/2003 6:12:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/11/2003 6:12:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/11/2003 6:12:00 PM

Qualifiers:

BRL - Below Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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ENVIRONMENTAL TESTING

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

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030158

Lab ID: R03030158-07

Collection Date: 3/5/2003

Client Sample ID: 04, 4th Fl (Floor Hallway)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/11/2003 6:37:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/11/2003 6:37:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/11/2003 6:37:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/11/2003 6:37:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/11/2003 6:37:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 6:37:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/11/2003 6:37:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 6:37:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/11/2003 6:37:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/11/2003 6:37:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 6:37:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/11/2003 6:37:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/11/2003 6:37:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/11/2003 6:37:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/11/2003 6:37:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/11/2003 6:37:00 PM

Qualifiers:

BRL - Below Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

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INDUSTRIAL HYGIENE

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ENVIRONMENTAL TESTING

•NY DOH/NELAC 10903
 •PA DEP 05-353
 •NJ DEP PA020
 •CT DPH PH-0238

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030158

Lab ID: R03030158-08

Collection Date: 3/5/2003

Client Sample ID: 05, 4th Fl (Wall Bathrm, Lower

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/11/2003 7:01:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/11/2003 7:01:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/11/2003 7:01:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/11/2003 7:01:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/11/2003 7:01:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 7:01:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/11/2003 7:01:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 7:01:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/11/2003 7:01:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/11/2003 7:01:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 7:01:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/11/2003 7:01:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/11/2003 7:01:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/11/2003 7:01:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/11/2003 7:01:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/11/2003 7:01:00 PM

Qualifiers:

BRL - Below Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range



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INDUSTRIAL HYGIENE

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ENVIRONMENTAL TESTING

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 •CT DPH PH-0238

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030158

Lab ID: R03030158-09

Collection Date: 3/5/2003

Client Sample ID: 06, 4th Fl (Countertop Kitchen)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/11/2003 7:26:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/11/2003 7:26:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/11/2003 7:26:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/11/2003 7:26:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/11/2003 7:26:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 7:26:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/11/2003 7:26:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 7:26:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/11/2003 7:26:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/11/2003 7:26:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 7:26:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/11/2003 7:26:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/11/2003 7:26:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/11/2003 7:26:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/11/2003 7:26:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/11/2003 7:26:00 PM

Qualifiers:

BRL - Below Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range



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ENVIRONMENTAL TESTING

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•PA DEP 06-353
•NJ DEP PA020
•CT DPH PH-0238

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030158

Lab ID: R03030158-10

Collection Date: 3/4/2003

Client Sample ID: 04, 11th Fl Downstairs (Wall Be

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/11/2003 7:51:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/11/2003 7:51:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/11/2003 7:51:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/11/2003 7:51:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/11/2003 7:51:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 7:51:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/11/2003 7:51:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 7:51:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/11/2003 7:51:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/11/2003 7:51:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 7:51:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/11/2003 7:51:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/11/2003 7:51:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/11/2003 7:51:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/11/2003 7:51:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/11/2003 7:51:00 PM

Qualifiers:

BRL - Below Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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4418 Pottsville Pike Reading, PA 19605
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INDUSTRIAL HYGIENE

•EPA PA-00135
 •AIHA ACCREDITATION NO. 100439
 •NC DENR 599

ENVIRONMENTAL TESTING

•NY DOH/NELAC 10903
 •PA DEP 05-353
 •NJ DEP PA020
 •CT DPH PH-0288

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030158

Lab ID: R03030158-11

Collection Date: 3/4/2003

Client Sample ID: 05, 11th Fl Downstairs (Floor Ha

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/11/2003 8:15:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/11/2003 8:15:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/11/2003 8:15:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/11/2003 8:15:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/11/2003 8:15:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 8:15:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/11/2003 8:15:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 8:15:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/11/2003 8:15:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/11/2003 8:15:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 8:15:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/11/2003 8:15:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/11/2003 8:15:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/11/2003 8:15:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/11/2003 8:15:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/11/2003 8:15:00 PM

Qualifiers:

BRL - Below Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range



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INDUSTRIAL HYGIENE

•EPA PA-00136
•AIHA ACCREDITATION NO. 100439
•NC DENR 599

ENVIRONMENTAL TESTING

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

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030158

Lab ID: R03030158-12

Collection Date: 3/4/2003

Client Sample ID: 06, 11th Fl Downstairs (Countertop)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/11/2003 8:40:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/11/2003 8:40:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/11/2003 8:40:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/11/2003 8:40:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/11/2003 8:40:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 8:40:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/11/2003 8:40:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 8:40:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/11/2003 8:40:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/11/2003 8:40:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 8:40:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/11/2003 8:40:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/11/2003 8:40:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/11/2003 8:40:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/11/2003 8:40:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/11/2003 8:40:00 PM

Qualifiers:

BRL - Below Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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INDUSTRIAL HYGIENE

•EPA PA-00136
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 •NC DENR 599

ENVIRONMENTAL TESTING

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

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030158

Lab ID: R03030158-13

Collection Date: 3/4/2003

Client Sample ID: 04, 11th Fl Upstairs (Floor Kitch

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/11/2003 9:04:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/11/2003 9:04:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/11/2003 9:04:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/11/2003 9:04:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/11/2003 9:04:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 9:04:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/11/2003 9:04:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 9:04:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/11/2003 9:04:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/11/2003 9:04:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 9:04:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/11/2003 9:04:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/11/2003 9:04:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/11/2003 9:04:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/11/2003 9:04:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/11/2003 9:04:00 PM

Qualifiers:

BRL - Below Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

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INDUSTRIAL HYGIENE

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ENVIRONMENTAL TESTING

•NY DOH/NELAC 10903
 •PA DEP 05-353
 •NJ DEP PA020
 •CT DPH PH-0238

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030158

Lab ID: R03030158-14

Collection Date: 3/4/2003

Client Sample ID: 05, 11th Fl Upstairs (Wall Living

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/11/2003 9:29:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/11/2003 9:29:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/11/2003 9:29:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/11/2003 9:29:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/11/2003 9:29:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 9:29:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/11/2003 9:29:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 9:29:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/11/2003 9:29:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/11/2003 9:29:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 9:29:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/11/2003 9:29:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/11/2003 9:29:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/11/2003 9:29:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/11/2003 9:29:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/11/2003 9:29:00 PM

Qualifiers:

BRL - Below Reporting Limit
 J - Analyte detected below quantitation limits
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 R - RPD outside accepted recovery limits
 E - Value above quantitation range



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INDUSTRIAL HYGIENE

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ENVIRONMENTAL TESTING

•NY DOH/NELAC 10903
 •PA DEP 05-353
 •NJ DEP PA020
 •CT DPH PH-0238

Date: 14-Mar-03

CLIENT: JLC Env. Consultants Inc.
Project: US DEP WTC - LBA (Dioxin & PAH wipes)

Lab Order: R03030158

Lab ID: R03030158-15

Collection Date: 3/4/2003

Client Sample ID: 06, 11th Fl Upstairs' (Countertop)

Matrix: WIPE

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLY AROMATIC HYDROCARBONS		SW8270C		Analyst: CXA		
Acenaphthene	BRL	5.0		µg, Total	1	3/11/2003 9:53:00 PM
Acenaphthylene	BRL	5.0		µg, Total	1	3/11/2003 9:53:00 PM
Anthracene	BRL	5.0		µg, Total	1	3/11/2003 9:53:00 PM
Benzo(a)anthracene	BRL	5.0		µg, Total	1	3/11/2003 9:53:00 PM
Benzo(a)pyrene	BRL	5.0		µg, Total	1	3/11/2003 9:53:00 PM
Benzo(b)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 9:53:00 PM
Benzo(g,h,i)perylene	BRL	5.0		µg, Total	1	3/11/2003 9:53:00 PM
Benzo(k)fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 9:53:00 PM
Chrysene	BRL	5.0		µg, Total	1	3/11/2003 9:53:00 PM
Dibenzo(a,h)anthracene	BRL	5.0		µg, Total	1	3/11/2003 9:53:00 PM
Fluoranthene	BRL	5.0		µg, Total	1	3/11/2003 9:53:00 PM
Fluorene	BRL	5.0		µg, Total	1	3/11/2003 9:53:00 PM
Indeno(1,2,3-cd)pyrene	BRL	5.0		µg, Total	1	3/11/2003 9:53:00 PM
Naphthalene	BRL	5.0		µg, Total	1	3/11/2003 9:53:00 PM
Phenanthrene	BRL	5.0		µg, Total	1	3/11/2003 9:53:00 PM
Pyrene	BRL	5.0		µg, Total	1	3/11/2003 9:53:00 PM

Qualifiers:

BRL - Below Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range