MasiMax
Resources, Inc.

August 22, 2007

Tim Sleeth
General Service Administration (GSA)
Safety, Environmental & Fire Protection Branch
7th & D Streets, S.W. Room 2080
Washington, D.C. 20407

Subject: Contract Number: GS11P07YAD0036
Delivery Order Number: GSP1107DC0340
ACT Number: PJ7N02797
Annual Fiber-in-Air Sampling at New Executive Office Building, Washington, D.C.

Dear Mr. Sleeth:

MasiMax Resources, Inc. received a delivery order from GSA, NCR, Service Delivery Support Safety, Environmental and Fire Protection Branch to conduct the Annual Fiber-In-Air (FIA) Survey at the New Executive Office Building (NEOB) located at 1725 17th Street, NW, Washington D.C.

MasiMax's Environmental Health Specialist, Ms. Amy Chang, conducted the sampling on August 13, 2007 through August 15, 2007. Forty-nine (49) air samples were collected from offices, corridors, and break rooms, per the request of GSA point of contact, Mr. Wesley Brubaker. The samples were collected after routine work hours throughout the evening and morning as not to disturb the building occupants.

The samples were delivered to RJ Lee Group, Incorporated located in Manassas, Virginia and were analyzed in accordance with National Institute for Occupational Safety and Health (NIOSH) Analytical Method 7400, Asbestos Fibers by Phase Contrast Microscopy (PCM). RJ Lee Group participates in the National Voluntary Laboratory Accreditation Program (NVLAP), is accredited by the American Industrial Hygiene Association (AIHA) and is a licensed Virginia asbestos laboratory

The laboratory analysis detected less than 0.01 fibers per cubic centimeter of air (<0.01 f/cc) in the samples collected. The samples did not require further analysis by transmission electron microscopy (TEM). Sample results are provided in Table 1 in Attachment A to this letter. Laboratory reports from RJ Lee Group and field blank analysis sheets are provided in Attachment B.

If you should have any questions or require any further information, please call me at (571) 203-7906.

Sincerely,

MASIMAX RESOURCES, INC.

Mark McGowan, CIH, CSP
Vice President, Environmental Health and Safety Services

Amy Chang
Environmental Health Specialist

ATTACHMENT A

SUMMARY TABLE OF RESULTS

Table 1 - Fibers In Air Sampling Results for							
New Executive Building, 725 17th Street NW, Washington, D.C.							
Collected 8/13/07, 8/14/07, 8/15/07							
Sample Number	**Sample Type**	**Location**	**Floor**	**Average Flow Rate**	**Total Time (minutes)**	**Total Volume (Liters)**	**PCM Results (f/cc)**
AC081307-F01	Area	10235 Reception Desk	10	2.5	707	1767.5	<0.002
AC081307-F02	Area	10208-A	10	2.2	703	1546.6	<0.002
AC081307-F03	Area	10025 Reception	10	2.4	702	1684.8	<0.002
AC081307-F04	Area	9208-H	9	2.2	698	1535.6	<0.002
AC081307-F05	Area	9235	9	2.2	698	1535.6	<0.002
AC081307-F06	Area	9002	9	2.1	699	1467.9	<0.002
AC081307-F07	Area	9026	9	2.1	695	1459.5	<0.002
AC081307-F08	Area	8208	8	2.1	696	1461.6	<0.002
AC081307-F09	Area	8236	8	2.2	696	1531.2	<0.002
AC081307-F10	Area	8025	8	2.2	695	1529	<0.002
AC081307-F11	Area	10001 Hall	10	2.2	702	1544.4	0.003
AC081307-F12	Area	8002	8	2.1	694	1457.4	<0.002
AC081307-F13	Area	7203	7	2.1	701	1472.1	<0.002
AC081307-F15	Area	7020 Copy Room	7	1.9	599	1328.1	<0.002
AC081307-F16	Area	7002	7	1.9	698	1326.2	<0.002
AC081307-F17	Area	6208	6	1.9	697	1324.3	<0.002
AC081407-F01	Area	6025	6	2.4	646	1550.4	<0.002
AC081407-F02	Area	6002 Jessie LaVire Office	6	2.5	647	1617.5	<0.002
AC081407-F03	Area	6235 Reception Office	6	2.5	639	1597.5	<0.002
AC081407-F04	Area	5208-9	5	2.5	612	1530	<0.002
AC081407-F05	Area	5235 Hallway	5	2.4	611	1466.4	<0.002

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New Executive Building, 725 17th Street NW, Washington, D.C.							
Collected 8/13/07, 8/14/07, 8/15/07							
Sample Number	**Sample Type**	**Location**	**Floor**	**Average Flow Rate**	**Total Time (minutes)**	**Total Volume (Liters)**	**PCM Results (f/cc)**
AC081407-F06	Area	5025 Hall	5	2.2	611	1344.2	<0.002
AC081407-F07	Area	5001 Hall	5	2.5	608	1520	<0.002
AC081407-F08	Area	4013 Tim Young E-Gov Office	4	2.5	598	1495	<0.002
AC081407-F09	Area	Space across from 4001	4	2.3	597	1373.1	<0.002
AC081407-F10	Area	4202 Hall	4	2.5	589	1472.5	<0.002
AC081407-F11	Area	4216 Hall	4	2.5	588	1470	<0.002
AC081407-F12	Area	3201 Hall (Construction)	3	2.4	574	1377.6	<0.002
AC081407-F13	Area	3222 Hall	3	2.2	573	1260.6	<0.002
AC081407-F14	Area	3021 Hall	3	2.1	573	1203.3	<0.002
AC081407-F15	Area	3004 Hall	3	2.1	571	1370.4	<0.002
AC081407-F16	Area	Gym	2	2.5	555	1387.5	<0.002
AC081407-F17	Area	GSA Reception Area	2	2.4	551	1322.4	<0.002
AC081407-F18	Area	Cafeteria	2	2.4	553	1327.2	<0.002
AC081407-F19	Area	2200 B	2	2.5	553	1382.5	<0.002
AC081507-F01	Area	Tank Room	B-2	2.5	615	1537.5	<0.002
AC081507-F02	Area	SB-222	B-2	2.5	615	1537.5	<0.002
AC081507-F04	Area	GSA SB-223	B-2	2.5	616	1540	<0.002
AC081507-F05	Area	Chiller Room B2	B-2	2.5	608	1520	<0.002
AC081507-F06	Area	Vault Office	B-1	2.5	614	1535	<0.002
AC081507-F07	Area	B227 GSA	B-1	2.5	615	1537.5	<0.002
AC081507-F08	Area	Hallway along Secret Service Lockers	B-1	2.5	612	1530	<0.002

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Sample Number	**Sample Type**	**Location**	**Floor**	**Average Flow Rate**	**Total Time (minutes)**	**Total Volume (Liters)**	**PCM Results (f/cc)**
AC081507-F10	Area	Loading Dock Hallway	B-1	2.5	612	1530	<0.002
AC081507-F11	Area	G007	Ground	2.5	614	1535	<0.002
AC081507-F12	Area	G-001	Ground	2.5	614	1535	<0.002
AC081507-F14	Area	Secret Service Breakroom	Ground	2.5	615	1537.5	0.002
AC081507-F15	Area	Ground Lobby Area	Ground	2.5	608	1520	<0.002
AC081507-F16	Area	7236 Darren Wong	7	2.5	613	1532.5	<0.002
AC081507-F17	Area	Wes Brubaker office GSA	2	2.5	572	1430	<0.002
AC081307-FB1	Area	Field Blank	Field Blank	N/A	N/A	See Attached Sheets	N/A
AC081307-FB2	Area	Field Blank	Field Blank	N/A	N/A		N/A
AC081407-FB1	Area	Field Blank	Field Blank	N/A	N/A		N/A
AC081407-FB2	Area	Field Blank	Field Blank	N/A	N/A		N/A
AC081507-FB1	Area	Field Blank	Field Blank	N/A	N/A		N/A
AC081507-FB2	Area	Field Blank	Field Blank	N/A	N/A		N/A

ATTACHMENT B

LABORATORY RESULTS AND FIELD BLANK WORKSHEETS

RJ Lee Group, Inc.

AIHA Accreditation No. 100511

10503 Battleview Parkway · Manassas, VA 20109
Voice 703 / 368-7880 · Fax 703 / 368-7761

received 8/23/07

LABORATORY REPORT

MasiMax Resources, Inc.
11417 Sunset Hills Road, Suite 225
Reston, Virginia 20190
Attention: Amy Chang
Telephone: 571-243-0280

Report Date: August 20, 2007
Sample Receipt Date: August 16, 2007
Sample Analysis Date: August 17, 2007
RJ Lee Group Job No.: AOW-708098
Client Job No.: 1272-017
Authorization/P.O. No.: Amy Chang

Analysis: Fibers (greater than or equal to 5 um long) on Mixed Cellulose Ester Filters

Method: Phase Contrast Microscopy (PCM), NIOSH 7400 Method (Issue 2, 08/15/94) & OSHA/EPA Reference Method (29 CFR 1910.1001, App. A)

Filter Diameter: 25 mm Blank Correction: N/A f/mm² Field Area: 0.00785 mm²

Sample Identification		Sample Volume	Fields	Total	Uncorrected Fiber Density	Airborne Fiber Concentration	
Client	RJ Lee Group	(liters)	Counted	Fibers	(fibers/mm²)	(fibers/cm³)	Sample Description / Notes
AC081507-F01	1106451	1537.5	100	3	3.8	< 0.002	08/15/07: Tank Room B2
AC081507-F02	1106452	1537.5	100	2	2.5	< 0.002	08/15/07: SB-222 B2
AC081507-F04	1106453	1540	100	1	1.3	< 0.002	08/15/07: GSA SB-223 B2
AC081507-F05	1106454	1520	100	2.5	3.2	< 0.002	08/15/07: Chiller Room B2
AC081507-F06	1106455	1535	100	2	2.5	< 0.002	08/15/07: Vault Office B1
AC081507-F07	1106456	1537.5	100	1.5	1.9	< 0.002	08/15/07: B 277 GSA B1
AC081507-F08	1106457	1530	100	1	1.3	< 0.002	08/15/07: B1 SS Lockers Hallway
AC081507-F10	1106458	1530	100	3	3.8	< 0.002	08/15/07: Loading Dock B1
AC081507-F11	1106459	1535	100	0	0.0	< 0.002	08/15/07: G007
AC081507-F12	1106460	1535	100	0	0.0	< 0.002	08/15/07: G001

Monica M McCloy
Monica M. McCloy
Laboratory Manager

Lena Bulgakova
Laboratory Analyst

Notes:
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3. These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.
4. "<" indicates the fiber density is below the detection limit. A fiber density of 7 f/mm2 is used to calculate the detection limit.
5. This test report relates only to the items tested and is not valid without the signature of an approved AIHA signatory.
6. Blank samples were not submitted by the client with this set of samples.

Monroeville, PA · San Leandro, CA · Washington, DC

RJ Lee Group, Inc.

AIHA Accreditation No. 100511

10503 Battleview Parkway · Manassas, VA 20109
Voice 703 / 368-7880 · Fax 703 / 368-7761

LABORATORY REPORT

MasiMax Resources, Inc.
11417 Sunset Hills Road, Suite 225
Reston, Virginia 20190
Attention: Amy Chang
Telephone: 571-243-0280

Report Date:	August 20, 2007
Sample Receipt Date:	August 16, 2007
Sample Analysis Date:	August 17, 2007
RJ Lee Group Job No.:	AOW-708098
Client Job No.:	1272-017
Authorization/P.O. No.:	Amy Chang

Analysis: Fibers (greater than or equal to 5 um long) on Mixed Cellulose Ester Filters

Method: Phase Contrast Microscopy (PCM), NIOSH 7400 Method (Issue 2, 08/15/94) & OSHA/EPA Reference Method (29 CFR 1910.1001, App. A)

Filter Diameter: 25 mm Blank Correction: N/A f/mm² Field Area: 0.00785 mm²

Sample Identification		Sample Volume	Fields	Total	Uncorrected Fiber Density	Airborne Fiber Concentration	
Client	RJ Lee Group	(liters)	Counted	Fibers	(fibers/mm²)	(fibers/cm³)	Sample Description / Notes
AC081507-F14	1106461	1537.5	100	7.5	9.6	0.002	08/15/07: SS Breakroom
AC081507-F15	1106462	1520	100	0.5	0.6	< 0.002	08/15/07: Lobby G
AC081507-F16	1106463	1532.5	100	2	2.5	< 0.002	08/15/07: Darren Wong
AC081507-F17	1106464	1430	100	1	1.3	< 0.002	08/15/07: WCS B2 GSA

Lena Bulgakova
Laboratory Analyst

Monica M. McCloy
Monica M. McCloy
Laboratory Manager

Notes:
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Client Job No.:	272-017
Authorization/P.O. No.:	Amy Chang

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Sample Identification		Sample Volume	Fields	Total	Uncorrected Fiber Density	Airborne Fiber Concentration	
Client	RJ Lee Group	(liters)	Counted	Fibers	(fibers/mm²)	(fibers/cm³)	Sample Description / Notes
AC081307-F01	1106465	1767.5	100	2	2.5	< 0.002	08/13/07: 10235 Reception
AC081307-F02	1106466	1546.6	100	0.5	0.6	< 0.002	08/13/07: 10208 A
AC081307-F03	1106467	1684.8	100	2.5	3.2	< 0.002	08/13/07: 10025
AC081307-F04	1106468	1535.6	100	3	3.8	< 0.002	08/13/07: 9208 H
AC081307-F05	1106469	1535.6	100	1	1.3	< 0.002	08/13/07: 9235
AC081307-F06	1106470	1467.9	100	1.5	1.9	< 0.002	08/13/07: 9002
AC081307-F07	1106471	1459.5	100	1	1.3	< 0.002	08/13/07: 9026
AC081307-F08	1106472	1461.6	100	1.5	1.9	< 0.002	08/13/07: 8208
AC081307-F09	1106473	1531.2	100	0	0.0	< 0.002	08/13/07: 8236
AC081307-F10	1106474	1529	100	0	0.0	< 0.002	08/13/07: 8025

Monica M McCloy

Lena Bulgakova
Laboratory Analyst

Monica M. McCloy
Laboratory Manager

Notes:
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2. PCM coefficients of variance range from approximately 0.4 at low fiber density to 0.1 at high fiber density.
3. These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.
4. "<" indicates the fiber density is below the detection limit. A fiber density of 7 f/mm2 is used to calculate the detection limit.
5. This test report relates only to the items tested and is not valid without the signature of an approved AIHA signatory.
6. Blank samples were not submitted by the client with this set of samples.

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LABORATORY REPORT

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Attention: Amy Chang
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Report Date: August 20, 2007
Sample Receipt Date: August 16, 2007
Sample Analysis Date: August 17, 2007
RJ Lee Group Job No.: AOW-708099
Client Job No.: 272-017
Authorization/P.O. No.: Amy Chang

Analysis: Fibers (greater than or equal to 5 um long) on Mixed Cellulose Ester Filters

Method: Phase Contrast Microscopy (PCM), NIOSH 7400 Method (Issue 2, 08/15/94) & OSHA/EPA Reference Method (29 CFR 1910.1001, App. A)

Filter Diameter: 25 mm Blank Correction: N/A f/mm² Field Area: 0.00785 mm²

Sample Identification		Sample Volume	Fields	Total	Uncorrected Fiber Density	Airborne Fiber Concentration	
Client	RJ Lee Group	(liters)	Counted	Fibers	(fibers/mm²)	(fibers/cm³)	Sample Description / Notes
AC081307-F11	1106475	1544.4	100	10	12.7	0.003	08/13/07: 10001
AC081307-F12	1106476	1457.4	100	1.5	1.9	< 0.002	08/13/07: 8002
AC081307-F13	1106477	1472.1	100	0	0.0	< 0.002	08/13/07: 7203
AC081307-F15	1106478	1328.1	100	0	0.0	< 0.002	08/13/07: 7020
AC081307-F16	1106479	1326.2	100	0	0.0	< 0.002	08/13/07: 7602
AC081307-F17	1106480	1324.3	100	0.5	0.6	< 0.002	08/13/07: 6208

Monica M McCloy
Monica M. McCloy
Laboratory Manager

Lena Bulgakova
Laboratory Analyst

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Sample Identification		Sample Volume	Fields	Total	Uncorrected Fiber Density	Airborne Fiber Concentration	
Client	RJ Lee Group	(liters)	Counted	Fibers	(fibers/mm²)	(fibers/cm³)	Sample Description / Notes
AC081407-F01	1106481	1550.4	100	1	1.3	< 0.002	08/14/07: 6025
AC081407-F02	1106482	1617.5	100	0	0.0	< 0.002	08/14/07: 6002
AC081407-F03	1106483	1597.5	100	1	1.3	< 0.002	08/14/07: 6235
AC081407-F04	1106484	1530	100	1	1.3	< 0.002	08/14/07: 5208-9
AC081407-F05	1106485	1466.4	100	0	0.0	< 0.002	08/14/07: 5235 Hall
AC081407-F06	1106486	1344.2	100	2.5	3.2	< 0.002	08/14/07: 5025 Hall
AC081407-F07	1106487	1520	100	0.5	0.6	< 0.002	08/14/07: 5001 Hall
AC081407-F08	1106488	1495	100	3	3.8	< 0.002	08/14/07: Tim Young Egov Office 4013
AC081407-F09	1106489	1373.1	100	2.5	3.2	< 0.002	08/14/07: 4001 Across
AC081407-F10	1106490	1472.5	100	2	2.5	< 0.002	08/14/07: 4202 Hall

Monica M. McCloy

Lena Bulgakova
Laboratory Analyst

Monica M. McCloy
Laboratory Manager

Notes:
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6. Blank samples were not submitted by the client with this set of samples.

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Attention: Amy Chang
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RJ Lee Group Job No.: AOW-708100
Client Job No.: 272-017
Authorization/P.O. No.: Amy Chang

Analysis: Fibers (greater than or equal to 5 um long) on Mixed Cellulose Ester Filters

Method: Phase Contrast Microscopy (PCM), NIOSH 7400 Method (Issue 2, 08/15/94) & OSHA/EPA Reference Method (29 CFR 1910.1001, App. A)

Filter Diameter: 25 mm Blank Correction: N/A f/mm² Field Area: 0.00785 mm²

Sample Identification		Sample Volume	Fields	Total	Uncorrected Fiber Density	Airborne Fiber Concentration	
Client	RJ Lee Group	(liters)	Counted	Fibers	(fibers/mm²)	(fibers/cm³)	Sample Description / Notes
AC081407-F11	1106491	1470	100	1	1.3	< 0.002	08/14/07: 4216 Hall
AC081407-F12	1106492	1377.6	100	1	1.3	< 0.002	08/14/07: 3201 Hall
AC081407-F13	1106493	1260.6	100	0.5	0.6	< 0.002	08/14/07: 3222 Hall
AC081407-F14	1106494	1203.3	100	1	1.3	< 0.002	08/14/07: 3021 Hall
AC081407-F15	1106495	1370.4	100	0	0.0	< 0.002	08/14/07: 3004 Hall
AC081407-F16	1106496	1387.5	100	4	5.1	< 0.002	08/14/07: Gym 2nd
AC081407-F17	1106497	1322.4	100	1	1.3	< 0.002	08/14/07: 2nd Floor GSA Reception
AC081407-F18	1106498	1327.2	100	0	0.0	< 0.002	08/14/07: Café 2nd
AC081407-F19	1106499	1382.5	100	1	1.3	< 0.002	08/14/07: 2200 B 2nd

Monica M McCloy
Monica M. McCloy
Laboratory Manager

Lena Bulgakova
Laboratory Analyst

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3. These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.
4. "<" indicates the fiber density is below the detection limit. A fiber density of 7 f/mm2 is used to calculate the detection limit.
5. This test report relates only to the items tested and is not valid without the signature of an approved AIHA signatory.
6. Blank samples were not submitted by the client with this set of samples.

Monroeville, PA · San Leandro, CA · Washington, DC

RJ Lee Group, Inc.

Request for Laboratory Analytical Services

Shaded Areas For RJLG Use Only	Page 1 of 1
Project No.:	
Client No.:	
Date Logged In: 08/16/07 By:	

Purchase Order No. | Client Job. No. 1272-017

Report Results To
- Name: Amy Chang
- Company: MasiMax Resources, Inc.
- Street Address: 11417 Sunset Hills Road, Suite 225
- City, State, Zip: Reston, Virginia 20190
- Phone No. 571-243-0280 | Fax No. 571-203-7911

Date & Time Results Requested STD - 5 Days GSA
(a standard TA of 5 days is assumed if left blank; do not use vague terms like ASAP) 08/21/07 11:30 Am

GSA Project??? Yes No

Special Instructions: (Complete any areas that apply)
E-Mail results to: achang@masimax.com
Call with verbal results:
Also fax results to: 571-203-7911

Analyses Requested: NIOSH 7400

(One sample per line) Client Sample ID No.	Client Sample Identification	Sample Date	Volume/Area (specify units)	NIOSH 7400						Shaded Area for Lab Use Only
A08 1507 - F01	Tank Room B2	8/15/07	1537.5 L	P						1106455
-F02	SB-222 B2		1537.5 L							456
-F04	GSA SB-223 B2		1540 L							457
F05	Chiller Room B2		1520 L							458
-F06	Vault office B1		1535 L							459
-F07	B227 GSA B1		1537.5 L							460
-F08	B1 secret Serve lockers/Holley		1580 L							461
-F10	Loading Dock B1		1530 L							462
-F11	G007		1535 L							463
-F12	G001		1535 L							464
-F14	SS Breakroom		1537.5 L							465
-F15	lobby G 723 Darron Wong		~~1525 L~~ 1520 L							466
-F16	~~WES~~ Darron Wong		1532.5							467
-F17	WES - B2 GSA		1430							468

Chain of Custody	Relinquished by: Amy Chang	Date/Time 11:24	Chain of Custody	Relinquished by:	Date/Time
	Method of Shipment: Hand	8/16/07		Received by:	Date/Time
Chain of Custody	Relinquished by:	Date/Time	Chain of Custody	Relinquished by:	Date/Time
	Received by:	Date/Time		Received by:	Date/Time
Chain of Custody	Relinquished by:	Date/Time	Received at Lab by: [illegible]		Date/Time 08/16/07 4:25 Pm
	Received by:	Date/Time	Sample Condition Upon Receipt:	Acceptable ✓	Other (explain on reverse)
Prepped by: CAB Date: 08/16/07	Prepped by:	Date:	Disposition of Sample(s)	Storage: Rck 1C5 08/16/07	Date:
Analyzed by: CAB Date: 08/17/07	Analyzed by:	Date:	Returned:	Method of Shipment:	

Please return completed form to one of the following RJ Lee Group labs:

For special instructions (method, detection limits, preservative, invoice address), please note on the back and check here: ☐

10503 Battleview Parkway
Manassas, VA 20109
(703) 368 - 7880 Voice
(703) 368 - 7761 Fax

350 Hochberg Road
Monroeville, PA 15146
(724) 325-1776 Voice
(724) 733-1799 Fax

530 McCormick Place
San Leandro, CA 94577
(510) 567-0480 Voice
(510) 567-0488 Fax

RJ Lee Group, Inc.

Request for Laboratory Analytical Services

Shaded Areas For RJLG Use Only	Page 1 of 2
Project No.: A0081708099	
Client No.:	
Date Logged In: 08/16/07	By: CKG

Purchase Order No. | Client Job. No. 272-017

Report Results To

Name	Amy Chang
Company	MasiMax Resources, Inc.
Street Address	11417 Sunset Hills Road, Suite 225
City, State, Zip	Reston, Virginia 20190
Phone No.	571-243-0280
Fax No.	571-203-7911

Date & Time Results Requested STANDARD 3 DAY GSA 08/21/07 11 AM
(a standard TA of 5 days is assumed if left blank; do not use vague terms like ASAP)

GSA Project??? Yes No

Special Instructions: (Complete any areas that apply)
E-Mail results to: achang@masimax.com
Call with verbal results: Amy
Also fax results to: 571-203-7911

Analyses Requested

(One sample per line) Client Sample ID No.	Client Sample Identification	Sample Date	Volume/Area (specify units)	M10534 7400	Shaded Area for Lab Use Only
A081307 - F01	10235 reception	8/13/07	1767.5L		4664
- F02	10208 A		1546.6L		4665
- F03	10025		1684.8L		4667
- F04	9208 A		1535.6L		4668
- F05	9235		1535.6L		4669
- F06	9002		1467.9L		4670
- F07	9026		1459.5L		4671
- F08	8208		1461.6L		4672
- F09	8236		1531.2L		4673
- F10	8025		1529L		4674
- F11	10001		1544.4L		4675
- F12	8002		1457.4L		4676
- F13	7203		1422.1L		4677
- F15	7020		1328.1L		4678
- F16	~~[illegible]~~ 7002		~~[illegible]~~ 1326.2L		4679

Chain of Custody	Relinquished by: Amy Chang	Date/Time 1129	Chain of Custody	Relinquished by:	Date/Time
	Method of Shipment: Hand	8/16/07		Received by:	Date/Time
Chain of Custody	Relinquished by:	Date/Time	Chain of Custody	Relinquished by:	Date/Time
	Received by:	Date/Time		Received by:	Date/Time
Chain of Custody	Relinquished by:	Date/Time	Received at Lab by: [illegible]		Date/Time 8/16/07 11:25 Am
	Received by:	Date/Time	Sample Condition Upon Receipt:	Acceptable	Other (explain on reverse)
Prepped by: CKG	Date: 08/16/07	Prepped by: Date:	Disposition of Sample(s)	Storage: Sec. 68/4/07	Date:
Analyzed by: CKG	Date: 08/17/07	Analyzed by: Date:	Returned:	Method of Shipment:	

Please return completed form to one of the following RJ Lee Group labs:

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10503 Battleview Parkway
Manassas, VA 20109
(703) 368 - 7880 Voice
(703) 368 - 7761 Fax

350 Hochberg Road
Monroeville, PA 15146
(724) 325-1776 Voice
(724) 733-1799 Fax

530 McCormick Place
San Leandro, CA 94577
(510) 567-0480 Voice
(510) 567-0488 Fax

Masi Max 7080099

RJ Lee Group, Inc.

Request for Laboratory Analytical Services

Shaded Areas For RJLG Use Only	Page 2 of 2
Project No.:	A0W2708099
Client No.:	
Date Logged In: 08/16/07	By: CdG

Purchase Order No.		Client Job. No.	282-017

Report Results To		
	Name	Amy Chang
	Company	MasiMax Resources, Inc.
	Street Address	11417 Sunset Hills Road, Suite 225
	City, State, Zip	Reston, Virginia 20190
	Phone No.	571-2430290 Fax No. 571-203-7911

Date & Time Results Requested STANDARD 30 DAY GSA 08/21/07 11:30 AM
(a standard TA of 5 days is assumed if left blank; do not use vague terms like ASAP)

GSA Project??? Yes (circled) No

Special Instructions: (Complete any areas that apply)
E-Mail results to: achang@masimax.com
Call with verbal results: amy
Also fax results to: 571-203-7911

Analyses Requested

(One sample per line) Client Sample ID No.	Client Sample Identification	Sample Date	Volume/Area (specify units)	MASIMAX						Shaded Area for Lab Use Only
A08130F - F17	6208	8/14/07	1324.3	1						1106480

Chain of Custody	Relinquished by:	Date/Time	Chain of Custody	Relinquished by:	Date/Time
	Method of Shipment:			Received by:	Date/Time
Chain of Custody	Relinquished by:	Date/Time	Chain of Custody	Relinquished by:	Date/Time
	Received by:	Date/Time		Received by:	Date/Time
Chain of Custody	Relinquished by:	Date/Time	Received at Lab by:		Date/Time
	Received by:	Date/Time	Sample Condition Upon Receipt:	Acceptable	Other (explain on reverse)
Prepped by:	Date:	Prepped by: Date:	Disposition of Sample(s):	Storage:	Date:
Analyzed by:	Date:	Analyzed by: Date:	Returned:	Method of Shipment:	

Please return completed form to one of the following RJ Lee Group labs:

For special instructions (method, detection limits, preservative, invoice address), please note on the back and check here: ☐

10503 Battleview Parkway
Manassas, VA 20109
(703) 368 - 7880 Voice
(703) 368 - 7761 Fax

350 Hochberg Road
Monroeville, PA 15146
(724) 325-1776 Voice
(724) 733-1799 Fax

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San Leandro, CA 94577
(510) 567-0480 Voice
(510) 567-0488 Fax

RJ Lee Group, Inc.

Request for Laboratory Analytical Services

Shaded Areas For RJLG Use Only	Page 1 of 2
Project No.:	AC081407/00
Client No.:	
Date Logged In: 08/16/07	By:

Purchase Order No.

Client Job. No. 272-017

Date & Time Results Requested STD 3 DAY GSA 08/21/07 11:50 AM
(a standard TA of 5 days is assumed if left blank; do not use vague terms like ASAP)

Report Results To		
Name	Amy Chang	
Company	MasiMax Resources, Inc.	
Street Address	11417 Sunset Hills Road, Suite 225	
City, State, Zip	Reston, Virginia 20190	
Phone No.	571-243-0280	Fax No. 571-203-7911

GSA Project??? (Yes) No

Special Instructions: (Complete any areas that apply)
E-Mail results to: achang@masimax.com
Call with verbal results: Amy
Also fax results to: 571-203-7911

Analyses Requested: MUSH 5400

(One sample per line) Client Sample ID No.	Client Sample Identification	Sample Date	Volume/Area (specify units)	MUSH 5400	Shaded Area for Lab Use Only
AC081407 - F01	6025	8/14/07	1550.4L	X	455
- F02	6002		1617.5L		456
- F03	6235		1597.5L		457
- F04	5208-9		1530L		458
- F05	5235 Hall		1466.4L		459
- F06	5025 Hall		1344.2L		460
- F07	5001 Hall		1520L		461
- F08	Tim Young Egov office 4013		1495L		462
- F09	4001 across		1373.1L		463
- F10	4202 Hall		1472.5L		464
- F11	4216 Hall		1470L		465
- F12	3201 Hall		1377.6L		466
- F13	3222 Hall		1260.6L		467
- F14	3021 Hall		1203.3L		468
* - F15	3004 Hall		1370.4L		469

Chain of Custody	Relinquished by: Amy	Date/Time 11:26	
	Method of Shipment: Hand delivered	8/16/07	
Chain of Custody	Relinquished by:	Date/Time	
	Received by:	Date/Time	
Chain of Custody	Relinquished by:	Date/Time	
	Received by:	Date/Time	
Chain of Custody	Relinquished by:	Date/Time	
	Received by:	Date/Time	
Chain of Custody	Relinquished by:	Date/Time	
	Received by:	Date/Time	

Prepped by: CAB Date: 08/16/07 Prepped by: Date:
Analyzed by: CAB Date: 08/17/07 Analyzed by: Date:

Received at Lab by: [illegible] Date/Time 08/16/07 11:25 AM
Sample Condition Upon Receipt: Acceptable Other (explain on reverse)
Disposition of Sample(s): Storage: [illegible] Date:
Returned: Method of Shipment:

Please return completed form to one of the following RJ Lee Group labs:

For special instructions (method, detection limits, preservative, invoice address), please note on the back and check here: ☐

10503 Battleview Parkway
Manassas, VA 20109
(703) 368 - 7880 Voice
(703) 368 - 7761 Fax

350 Hochberg Road
Monroeville, PA 15146
(724) 325-1776 Voice
(724) 733-1799 Fax

530 McCormick Place
San Leandro, CA 94577
(510) 567-0480 Voice
(510) 567-0488 Fax

08/20/07 - Sent [illegible]

MasiMax 708/00

RJ Lee Group, Inc.

Request for Laboratory Analytical Services

Shaded Areas For RJLG Use Only	Page 1 of 1
Project No.:	
Client No.:	
Date Logged In: 08/16/07	By:

Purchase Order No. | Client Job. No. 272017

Report Results To		
Name	Amy Chang	
Company	MasiMax Resources, Inc	
Street Address	11417 Sunset Hills Road, Suite 225	
City, State, Zip	Reston, Virginia 20190	
Phone No.	571-2480280	Fax No. 571-203-7911

Date & Time Results Requested (a standard TA of 5 days is assumed if left blank; do not use vague terms like ASAP): STD 3 DAY CSM 08/21/07 11:30 AM

GSA Project??? Yes No

Special Instructions: (Complete any areas that apply)
E-Mail results to: ~~Amy~~ achang@masimax.com
Call with verbal results:
Also fax results to: 571-203-7911

Analyses Requested: NIOSH 7400

(One sample per line) Client Sample ID No.	Client Sample Identification	Sample Date	Volume/Area (specify units)	Shaded Area for Lab Use Only
* AC081407-F15	3004 Hall	8/14/07	1370.4L	
-F16	Gym 2nd		1387.52	1 of 4
-F17	~~2nd Floor~~ GSA reception		1322.4L	497
-F18	~~2200B 2nd~~ Cafe 2nd		1327.2	498
-F19	2200 B 2nd		1382.5L	499

* AC081407-F15 was written on the chain twice. ada 08/16/07

Chain of Custody					
Relinquished by:	Date/Time	Relinquished by:	Date/Time
Method of Shipment:		Received by:	Date/Time
Relinquished by:	Date/Time	Relinquished by:	Date/Time
Received by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received at Lab by: [illegible]	Date/Time 08/16/07 11:45am
Received by:	Date/Time	Sample Condition Upon Receipt: Acceptable	Other (explain on reverse)
Prepped by: [illegible] Date: 08/16/07	Prepped by: Date:	Disposition of Sample(s): Storage: Box 103	Date: 08/17/07
Analyzed by: [illegible] Date: 08/17/07	Analyzed by: Date:	Returned:	Method of Shipment:

Please return completed form to one of the following RJ Lee Group labs:

For special instructions (method, detection limits, preservative, invoice address), please note on the back and check here: ☐

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Manassas, VA 20109
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(703) 368 - 7761 Fax

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Monroeville, PA 15146
(724) 325-1776 Voice
(724) 733-1799 Fax

530 McCormick Place
San Leandro, CA 94577
(510) 567-0480 Voice
(510) 567-0488 Fax

MasiMax Resources, Inc.

NIOSH 7400 COUNT SHEET

Project/Task: 1272-017 F1A **Project Location:** New Executive Office Building

Sample #: AC081307-FB1

10	20	30	40	50	60	70	80	90	100
	1								
						.5			
						.5			
0	0	0	0	0	0	1	0	0	0

$$f/cc = \frac{\frac{\text{Fiber}}{\text{Field}} \times 385}{7.85 \times \text{Sample Volume}} = \_\_\_\_\_$$

Sample Volume
Fibers/Field 3/100
Fiber/cc

Analyst: Amy Chang **Date:** 8/17/07

Project/Task: 1272-017 F1A **Project Location:** New Executive Office Building

Sample #: AC081307-FB2

10	20	30	40	50	60	70	80	90	100
						1			
									1
1	1					0.5			
0	0	0	1	0	0	0	0	0	0

$$f/cc = \frac{\frac{\text{Fiber}}{\text{Field}} \times 385}{7.85 \times \text{Sample Volume}} = \_\_\_\_\_$$

Sample Volume
Fibers/Field 5.5/100
Fiber/cc

Analyst: Amy Chang **Date:** 8/17/07

MasiMax Resources, Inc.

NIOSH 7400 COUNT SHEET

Project/Task: 1272-017 F/A **Project Location:** New Executive Office Building

Sample #: AC081407-FB1

10	20	30	40	50	60	70	80	90	100
	1							1	
	1			.5				1	1
0	0	0	0	0	0	0	0	0	0

$$f/cc = \frac{\frac{\text{Fiber}}{\text{Field}} \times 385}{7.85 \times \text{Sample Volume}} = \_\_\_\_\_$$

Sample Volume
Fibers/Field
5.5/100
Fiber/cc

Analyst: Amy Chang **Date:** 8/17/07

Project/Task: 1272-017 F/A **Project Location:** New Executive Office Building

Sample #: AC081407-FB2

10	20	30	40	50	60	70	80	90	100
1									
1	0	0	0	0	0	0	0	0	0

$$f/cc = \frac{\frac{\text{Fiber}}{\text{Field}} \times 385}{7.85 \times \text{Sample Volume}} = \_\_\_\_\_$$

Sample Volume
Fibers/Field
2/100
Fiber/cc

Analyst: Amy Chang **Date:** 8/17/07

MasiMax Resources, Inc.

NIOSH 7400 COUNT SHEET

Project/Task: 1272-017 F/A **Project Location:** New Executive Office Building

Sample #: AC081507-FB1

10	20	30	40	50	60	70	80	90	100
					0 0.5				
								1	
	1								
0	0	0	0	0		0	0		0.5 0

$$f/cc = \frac{\frac{\text{Fiber}}{\text{Field}} \times 385}{7.85 \times \text{Sample Volume}} = \_\_\_\_\_$$

Sample Volume
Fibers/Field 3/100
Fiber/cc

Analyst: Amy Chang **Date:** 8/17/07

Project/Task: 1272-017 F/A **Project Location:** New Executive Office Building

Sample #: AC081507-FB2

10	20	30	40	50	60	70	80	90	100
						1			
1						1			
		1							
0	0	1 0	0	0	0	0	0	0	0

$$f/cc = \frac{\frac{\text{Fiber}}{\text{Field}} \times 385}{7.85 \times \text{Sample Volume}} = \_\_\_\_\_$$

Sample Volume
Fibers/Field 5/100
Fiber/cc

Analyst: Amy Chang **Date:** 8/17/07

Mabbett & Associates, Inc.
1442 Duke Street
Alexandria, VA 22314
Tel: (703) 997-6051
info@mabbett.com
www.mabbett.com

July 31, 2015

James Hodges, CHMM
Supervisory Industrial Hygienist
General Services Administration (GSA)
Safety, Environment, & Fire Protection Branch
7th & D Streets, SW, Room 2080
Washington, D.C. 20407

Subject: **Annual Asbestos Operations and Maintenance Inspection Report**
New Executive Office Building (DC0105ZZ)
Contract No.: GS-11P-12-DC-C-0007MABBET
Mabbett No.: 2012011.086

Dear Mr. Hodges:

Mabbett & Associates, Inc. (Mabbett™) received a request from GSA, NCR, Service Delivery Support Safety, Environmental, and Fire Protection Branch to conduct the annual asbestos operations and maintenance (O&M) inspection of thirty two (32) GSA facilities. This report summarizes the results of the inspection conducted at the New Executive Office Building (NEOB) located at 725 17th St. NW, Washington DC.

The inspection was conducted on November 7 and 10, 2014by Mabbett Industrial Hygienists, David Nelson (Inspector #AIMPRO9302014-7) and Timothy Kenny (Inspector #AI01062014-3). The inspection and sampling were performed in accordance with GSA and Asbestos Hazard and Emergency Response Act (AHERA) protocols.

Methods

Copies of the existing asbestos O&M reports containing locations and quantities of previously identified asbestos containing building materials (ACBM) were provided by GSA. The ACBM was visually inspected to determine if the ACBM were still present, the quantity of each material remaining, and the condition of the materials. A visual inspection of the entire building was also conducted to find and sample materials that were not previously identified as potential ACBM.

Suspect ACBM were sampled and analyzed for asbestos content by polarized light microscopy (PLM). Samples collected were shipped to Scientific Analytical Institute Inc. (SAI) of Greensboro, North Carolina. SAI is accredited by the American Industrial Hygiene Association (AIHA) and participates in the National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos fiber analysis.

Findings

The visual inspection of the previously identified ACBM in the New Executive Office Building found 26 areas with damaged material and three areas with significant damage. The remaining ACBM inspected was found to be in good condition. The specific descriptions, locations and condition of the ACBM inspected is contained in the O&M Inventory and Surveillance Report Form in Attachment A and the Asbestos Assessment Data Forms in Attachment B. A list of sampled non-asbestos containing building materials in included in Attachment D. Photographs of the significantly damaged ACBM are included in Attachment E.

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Scientists | Engineers | Program Managers

Four samples of suspect ACBM were collected from one newly identified homogeneous area, four inch black cove base with white mastic. The analytical results of the samples were negative for asbestos. Detailed sample information can be found in the Laboratory Analysis Report in Attachment C.

Some areas were inaccessible during this inspection due to security restrictions. Also, the space above the suspended ceiling in some areas was not accessible due to the room being occupied by employees. All inaccessible suspect materials not evaluated are assumed to contain asbestos. All square and linear footage measurements are estimates only.

Conclusions & Recommendations

Consider removing, enclosing, encapsulating or repairing significantly damaged and damaged ACBM. All remaining ACBM that were in good condition should continue to be periodically inspected in accordance with AHERA guidelines.

Mabbett appreciates this opportunity to provide these asbestos consulting services for GSA, NCR. Should you have any questions or concerns, please do not hesitate to contact us at (703) 997-6051.

Very truly yours,

MABBETT & ASSOCIATES, INC.

BY:

David A. Nelson, RPIH
Senior Industrial Hygienist/Environmental Consultant

Reviewed by:

Gary Morris CIH, CSP
Senior Industrial Hygienist

Attachment A: O&M Inventory and Surveillance Report Form
Attachment B: Asbestos Assessment Data Forms
Attachment C: Laboratory Analysis Results
Attachment D: Sampled Non-Asbestos Containing Building Materials List
Attachment E: Photos

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Attachment A

O&M Inventory and Periodic Surveillance Report Form

ASBESTOS INVENTORY AND PERIODIC SURVEILLANCE ASSESSMENT REPORT

BUILDING NAME: New Executive Office Building (NEOB)
BUILDING ADDRESS: 725 17th St. NW
INSPECTOR: TK
ASBESTOS PROGRAM MANAGER: James Hodges

GSA BUILDING NUMBER: DC0105ZZ
DATE OF INSPECTION:11/7/14 - 11/10/14

DATE SUBMITTED TO WPMACB:

LOCATION(S) OF ACBM FLOOR/ROOM	HOMOGENEOUS MATERIAL	QUANTITY OF ACBM	FRIABLE YES/NO	CONDITION [1]	CAUSE OF DAMAGE [2]	QUANTITY OF DAMAGE (S.F./L.F.)	RECOMMENDED RESPONSE ACTION(S)[3]	DATE RESPONSE ACTION(S) COMPLETED
East Penthouse, Sub Basement, Parking Garage, Chiller Room	Mudded Elbows	450 EA	Yes	Good	N/A	N/A	O&M	
East Penthouse, Sub-Basement Tank Room, Parking Garage, Chiller Room	Mudded Fittings	250 EA	Yes	Good	N/A	N/A	O&M	
Sub Basement Compressor Room, Penthouse, Chiller Room	Pipe Insulation	4,030 L.F.	Yes	Good	N/A	N/A	O&M	
Outside G-112, Outside Library	Textured Ceiling Plaster	800 S.F.	Yes	Good	N/A	N/A	O&M	
East Penthouse, Ground Floor Mechanical Room G117, Sub-Basement Tank Room	Tank Insulation	1000 S.F.	Yes	Good	N/A	N/A	O&M	
Basement, Floors 6 - 10 Above Ceiling, 1st Floor Building Manager Hallway Above Ceiling, 1st Floor Above G1	Spray-on Fire Proofing	22,000 S.F.	Yes	Good	N/A	N/A	O&M	
East & West Penthouse	AHU Mastic	1,000 S.F.	No	Good	N/A	N/A	O&M	
East & West Penthouse	AHU Insulation	25,000 S.F.	Yes	Good	N/A	N/A	O&M	
Floors 2 and 10	Fire Doors	20 EA	No	Good	N/A	N/A	O&M	
East Penthouse	12"x12" Green Floor Tile Mastic	5,000 S.F.	No	Good	N/A	N/A	O&M	
Office Space Copy Rooms, Throughout Offices, Ground Floor Mechanical Room G117	9"x9" Gray w/ White Streaks Floor Tile and Mastic	900 S.F.	No	Good	N/A	N/A	O&M	
B227, B226, B206	12"x12" Gray w/ Gray Streaks Floor Tile and Mastic	600 S.F.	No	Good	N/A	N/A	O&M	
B227, B226, B206	12"x12" Red w/ Gray Streaks Floor Tile and Mastic	600 S.F.	No	Good	N/A	N/A	O&M	
B226	12"x12" Orange w/ Gray Streaks Floor Tile and Mastic	400 S.F.	No	Good	N/A	N/A	O&M	
G-117	Brown Stick Pin Mastic	20 S.F.	No	Good	N/A	N/A	O&M	
All Floors Above Ceiling	Black Duct Seam Mastic	15,000 L.F.	No	Good	N/A	N/A	O&M	
East Penthouse A-11-3	AHU Insulation	12,000 S.F.	Yes	Damaged	Impact	5 S.F.	Repair	
East Penthouse at Fenced Area	AHU Insulation	12,000 S.F.	Yes	Damaged	Puncture	1 S.F.	Repair	
West Penthouse F-27-6	AHU Insulation	12,000 S.F.	Yes	Damaged	Vibration	1 S.F.	Repair	
West Penthouse A-11-4	AHU Insulation (1)	12,000 S.F.	Yes	Damaged	Vibration	1 S.F.	Repair	
West Penthouse A-11-4	AHU Insulation (2)	12,000 S.F.	Yes	Damaged	Impact	2 S.F.	Repair	
West Penthouse A-11-4	AHU Insulation (3)	12,000 S.F.	Yes	Damaged	Impact	< 1 S.F.	Repair	
West Penthouse A-11-1	AHU Insulation (1)	12,000 S.F.	Yes	Damaged	Impact	1 S.F.	Repair	
West Penthouse A-11-1	AHU Insulation (2)	12,000 S.F.	Yes	Damaged	Impact	1 S.F.	Repair	
Sub-Basement Tank Room	Tank Insulation (1)	700 S.F.	Yes	Damaged	Vibration	3 S.F.	Repair	
Sub-Basement Tank Room	Tank Insulation (2)	700 S.F.	Yes	Damaged	Vibration	3 S.F.	Repair	
Sub-Basement Tank Room	Mudded Fittings	50 EA	Yes	Damaged	Vibration	4 L.F.	Repair	
Chiller Room	Mudded Fitting (1)	50 EA	Yes	Damaged	Vibration	1 L.F.	Repair	
Chiller Room	Mudded Fitting (2)	50 EA	Yes	Damaged	Impact	1 L.F.	Repair	
Chiller Room	Mudded Fitting (3)	50 EA	Yes	Damaged	Vibration	< 1 L.F.	Repair	
Chiller Room	Tank Insulation	200 S.F.	Yes	Damaged	Vibration	3 S.F.	Repair	
Chiller Room	Mudded Elbows (1)	50 EA	Yes	Damaged	Vibration	< 1 L.F.	Repair	
Chiller Room	Mudded Elbows (2)	50 EA	Yes	Damaged	Vibration	4 L.F.	Repair	
Chiller Room	Mudded Elbow (3)	50 EA	Yes	Damaged	Vibration	1 L.F.	Repair	
Chiller Room	Pipe Insulation	100 L.F.	Yes	Damaged	Puncture	< 1 L.F.	Repair	
Parking Garage B2 at Stair 6	Mudded Elbows (1)	150 EA	Yes	Damaged	Vibration	3 L.F.	Repair	
Parking Garage B2 at Stair 6	Mudded Elbow (2)	150 EA	Yes	Damaged	Vibration	1 L.F.	Repair	
Parking Garage B2 outside AHU Room F-27-16	Mudded Elbow	150 EA	Yes	Damaged	Puncture	< 1 L.F.	Repair	
Parking Garage B2 outside AHU Room F-27-16	Pipe Insulation	100 L.F.	Yes	Significantly Damaged	Puncture	2 L.F.	Remove or Encapsulate	
Parking Garage B2 at Freight Elevator	Mudded Elbow	150 EA	Yes	Damaged	Vibration	< 1 L.F.	Repair	
Parking Garage B1 outside B105	Mudded Elbow	150 EA	Yes	Damaged	Vibration	< 1 L.F.	Repair	
Parking Garage B1 at 17th St. Ramp	Mudded Elbows	150 EA	Yes	Significantly Damaged	Vibration	5 L.F.	Remove or Encapsulate	
Parking Garage B1	Mudded Fitting (1)	50 EA	Yes	Damaged	Puncture	1 L.F.	Repair	
Parking Garage B1	Mudded Fitting (2)	50 EA	Yes	Significantly Damaged	Vibration	2 L.F.	Remove or Encapsulate	
Parking Garage B1 outside Carpenters Shed	Mudded Elbow	150 EA	Yes	Damaged	Vibration	1 L.F.	Repair	

[1] GOOD, DAMAGED OR SIGNIFICANTLY DAMAGED
[2] AIR EROSION, VANDALISM, VIBRATION, WATER, ETC.
[3] REPAIR, REMOVE, ENCAPSULATE, ENCLOSE, OR O&M

Attachment B

Asbestos Assessment Data Forms

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 450 EA

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: MUDDED ELBOWS

LOCATION(S) OF HSA IN BLDG.: EAST PENTHOUSE, SUB-BASEMENT, PARKING GARAGE, CHILLER ROOM
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	__Minor	✓Medium
__Miscellaneous Material	✓None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	✓Low	__Low	__Low

Comments: _____

AHERA Classification (see instructions): 2

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 250 EA

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: MUDDED FITTINGS

LOCATION(S) OF HSA IN BLDG.: EAST PENTHOUSE, SUB-BASEMENT TANK ROOM PARKING GARAGE, CHILLER ROOM
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	__Minor	✓Medium
__Miscellaneous Material	✓None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	✓Low	__Low	__Low

Comments: _____

AHERA Classification (see instructions): 2

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 4030

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: PIPE INSULATION

LOCATION(S) OF HSA IN BLDG.: SUB-BASEMENT COMPRESSOR ROOM PENTHOUSE CHILLER ROOM
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	__Minor	✓Medium
__Miscellaneous Material	✓None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	✓Low	__Low	__Low

Comments: _____

AHERA Classification (see instructions): 2

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
	N/A	

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 800

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: TEXTURED CEILING MATERIAL (PLASTER)

LOCATION(S) OF HSA IN BLDG.: _____
(Include Functional Space)

HSA Category	Damage	Accessibility
✓ Surfacing Material	__ Significant	__ High
__ Thermal Systems Insulation	__ Minor	✓ Medium
__ Miscellaneous Material	✓ None	__ Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__ High	__ High	__ High	__ High
✓ Medium	✓ Medium	✓ Medium	✓ Moderate
__ Low	__ Low	__ Low	__ Low

Comments: _____

AHERA Classification (see instructions): 2

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 1000

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: TANK INSULATION

LOCATION(S) OF HSA IN BLDG.: EAST PENTHOUSE, GROUND FLOOR MECH ROOM, G117
SVB-BASEMENT TANK ROOM
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓ Thermal Systems Insulation	__Minor	✓ Medium
__Miscellaneous Material	✓ None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓ Medium	__Medium	✓ Medium	✓ Moderate
__Low	✓ Low	__Low	__Low

Comments: _____

AHERA Classification (see instructions): 3

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 22,000

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: SPRAY-ON FIREPROOFING

LOCATION(S) OF HSA IN BLDG.: BASEMENT, FLOORS 6-10 ABOVE CEILING, 1ST FLOOR BUILDING MANAGER HALLWAY ABOVE CEILING
(Include Functional Space) 1st Floor Above G1

HSA Category	Damage	Accessibility
✓ Surfacing Material	__ Significant	__ High
__ Thermal Systems Insulation	__ Minor	__ Medium
__ Miscellaneous Material	✓ None	✓ Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
✓ High	__ High	__ High	__ High
__ Medium	__ Medium	✓ Medium	✓ Moderate
__ Low	✓ Low	__ Low	__ Low

Comments: _____

AHERA Classification (see instructions): 3

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
	N/A	

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 1,000

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: AHU MASTIC

LOCATION(S) OF HSA IN BLDG.: EAST & WEST PENTHOUSE
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
__Thermal Systems Insulation	__Minor	✓Medium
✓Miscellaneous Material	✓None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
__Medium	__Medium	✓Medium	✓Moderate
✓Low	✓Low	__Low	__Low

Comments: _____

AHERA Classification (see instructions): 2

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 25,000

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: AHU INSULATION

LOCATION(S) OF HSA IN BLDG.: EAST & WEST PENTHOUSE
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	__Minor	✓Medium
__Miscellaneous Material	✓None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	✓Low	__Low	__Low

Comments: _____

AHERA Classification (see instructions): 3

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 20 EACH

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: FIRE DOORS

LOCATION(S) OF HSA IN BLDG.: FLOORS 2 AND 10
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
__Thermal Systems Insulation	__Minor	__Medium
✓Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
✓Low	✓Low	✓Low	✓Low

Comments: _____

AHERA Classification (see instructions): 2

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 5,000

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: 12"X12" GREEN FLOOR TILE MASTIC

LOCATION(S) OF HSA IN BLDG.: EAST PENTHOUSE
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
__Thermal Systems Insulation	__Minor	__Medium
✓Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
✓Low	✓Low	✓Low	✓Low

Comments: _____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 900 SF

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: 9"x9" GRAY W/ WHITE STREAKS FLOOR TILE AND MASTIC

LOCATION(S) OF HSA IN BLDG.: OFFICE SPACE COPY ROOMS THROUGHOUT OFFICES, GROUND FLOOR MECHANICAL ROOM 6117
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
__Thermal Systems Insulation	__Minor	✓Medium
✓Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
__Medium	✓Medium	__Medium	__Moderate
✓Low	__Low	✓Low	✓Low

Comments: _____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 600

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: 12"X12" GRAY W/ GRAY STREAKS FLOOR TILE AND MASTIC

LOCATION(S) OF HSA IN BLDG.: B227, B226, B206
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
__Thermal Systems Insulation	__Minor	✓Medium
✓Miscellaneous Material	✓None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
__Medium	✓Medium	__Medium	__Moderate
✓Low	__Low	✓Low	✓Low

Comments: _____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 600

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: 12"X12" RED W/GRAY STREAKS FLOOR TILE AND MASTIC

LOCATION(S) OF HSA IN BLDG.: B227, B226, B206
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
__Thermal Systems Insulation	__Minor	✓Medium
✓Miscellaneous Material	✓None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
__Medium	✓Medium	__Medium	__Moderate
✓Low	__Low	✓Low	✓Low

Comments: _____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 450

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: 12"X12" ORANGE W/GRAY STREAKS FLOOR TILE AND MASTIC

LOCATION(S) OF HSA IN BLDG.: Room B226
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
__Thermal Systems Insulation	__Minor	__Medium
✓ Miscellaneous Material	✓ None	✓ Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
✓ Low	✓ Low	✓ Low	✓ Low

Comments: _____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 20

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: BROWN STICK ON MASTIC

LOCATION(S) OF HSA IN BLDG.: G-117
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
__Thermal Systems Insulation	__Minor	__Medium
✓Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
__Medium	__Medium	✓Medium	__Moderate
✓Low	✓Low	__Low	✓Low

Comments: _____

AHERA Classification (see instructions): 2

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (~~S.F./~~L.F./CU. F.) 15,000 LF

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: BLACK DUCT SEAM MASTIC

LOCATION(S) OF HSA IN BLDG.: ABOVE CEILING ALL FLOORS
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
__Thermal Systems Insulation	__Minor	__Medium
✓Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
__Medium	__Medium	✓Medium	✓Moderate
✓Low	✓Low	__Low	__Low

Comments: _____

AHERA Classification (see instructions): 2

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 12,000

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: AHU INSULATION

LOCATION(S) OF HSA IN BLDG.: EAST PENTHOUSE A-11-3
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	✓Low	__Low	__Low

Comments: 5 SF IS DAMAGED FROM IMPACT FROM OBJECT

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 12,000

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: AHU INSULATION

LOCATION(S) OF HSA IN BLDG.: EAST PENTHOUSE AT FENCED AREA
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	✓Low	__Low	__Low

Comments: DAMAGE CAUSED BY PUNCTURE FROM OBJECT. 1 S.F IS DAMAGED

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 12,000

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: AHU INSULATION

LOCATION(S) OF HSA IN BLDG.: WEST PENTHOUSE - F-27-6
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
__Thermal Systems Insulation	✓Minor	__Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	✓Low	__Low	__Low

Comments: DAMAGED CAUSED BY VIBRATION FROM EQUIPMENT - 1 S.F. IS DAMAGED

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 12,000

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: AHU INSULATION (1)

LOCATION(S) OF HSA IN BLDG.: WEST PENTHOUSE A-11-4
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	__Low	__Low	__Low

Comments: DAMAGE CAUSED BY VIBRATION FROM EQUIPMENT.

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 12,000 SF

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: AHU INSULATION (2)

LOCATION(S) OF HSA IN BLDG.: WEST PENTHOUSE A-11-4
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	✓Low	__Low	__Low

Comments: DAMAGE CAUSED BY IMPACT FROM OBJECT - 2 SF ARE DAMAGED

AHERA Classification (see instructions): S

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 12,000

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: AHU INSULATION (3)

LOCATION(S) OF HSA IN BLDG.: WEST PENTHOUSE A-11-4
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	✓Low	__Low	__Low

Comments: DAMAGE CAUSED BY IMPACT FROM OBJECTS 2 SF DAMAGED

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 12,000

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: AHU INSULATION (1)

LOCATION(S) OF HSA IN BLDG.: WEST PENTHOUSE A-11-1
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	✓Low	__Low	__Low

Comments: DAMAGED CAUSED BY IMPACT FROM OBJECT

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 12,000

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: AHU INSULATION (2)

LOCATION(S) OF HSA IN BLDG.: WEST PENTHOUSE A-11-1
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	✓Medium	✓Medium	✓Moderate
__Low	__Low	__Low	__Low

Comments: DAMAGE CAUSED BY IMPACT FROM OBJECT - 1 SF DAMAGED

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 700

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: TANK INSULATION

LOCATION(S) OF HSA IN BLDG.: SUB-BASEMENT TANK ROOM
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	__Moderate
__Low	✓Low	__Low	✓Low

Comments: DAMAGE CAUSED BY VIBRATION FROM EQUIPMENT - 3 SQ FT DAMAGED

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 700

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: TANK INSULATION (2)

LOCATION(S) OF HSA IN BLDG.: SUB-BASEMENT TANK ROOM
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	__Moderate
__Low	✓Low	__Low	✓Low

Comments: DAMAGE CAUSED BY VIBRATION FROM EQUIPMENT – 3 SQ FT.

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 50 EA

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: MUDDED FITTINGS

LOCATION(S) OF HSA IN BLDG.: SUB-BASEMENT TANK ROOM
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	✓Low	__Low	__Low

Comments: DAMAGE CAUSED BY VIBRATION FROM EQUIPMENT - (4 L.F)

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 50 EA

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: MUDDED FITTING (1)

LOCATION(S) OF HSA IN BLDG.: CHILLER ROOM
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	✓Low	__Low	__Low

Comments: DAMAGE CAUSED BY VIBRATION FROM EQUIPMENT (1 LF)

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 50 EA

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: MUDDED FITTING (2)

LOCATION(S) OF HSA IN BLDG.: CHILLER ROOM
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	✓Low	__Low	__Low

Comments: DAMAGE CAUSED BY IMPACT FROM DRILL (1 ~~EA~~ LF)

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 50 EA

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: MUDDED FITTING (3)

LOCATION(S) OF HSA IN BLDG.: MUDDED FITTING (3)
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	✓Low	__Low	__Low

Comments: DAMAGE CAUSED BY VIBRATION

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
	N/A	

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT (S.F./L.F./CU. F.) 200

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: TANK INSULATION

LOCATION(S) OF HSA IN BLDG.: CHILLER ROOM
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	✓Low	__Low	__Low

Comments: DAMAGE CAUSED BY VIBRATION (3 SF)

AHERA Classification (see instructions): S

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 50 EA

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: MUDDED ELBOWS (1)

LOCATION(S) OF HSA IN BLDG.: CHILLER ROOM
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	✓Low	__Low	__Low

Comments: DAMAGE CAUSED BY VIBRATION

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 50 EA

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: MUDDED ELBOWS (2)

LOCATION(S) OF HSA IN BLDG.: CHILLER ROOM
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	✓Low	__Low	__Low

Comments: DAMAGE CAUSED BY VIBRATION (HLF)

AHERA Classification (see instructions): S

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 50 EA

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: MUDDED ELBOW (3)

LOCATION(S) OF HSA IN BLDG.: CHILLER ROOM
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	✓Low	__Low	__Low

Comments: DAMAGE CAUSED BY VIBRATION (1 LF)

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 100

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: PIPE INSULATION

LOCATION(S) OF HSA IN BLDG.: CHILLER ROOM
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	__Medium	✓Medium	✓Moderate
__Low	✓Low	__Low	__Low

Comments: DAMAGED CAUSED BY PUNCTURE (IMPACT) FROM OBJECT (R L.F)

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 150 EA

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: MUDDED ELBOWS (1)

LOCATION(S) OF HSA IN BLDG.: PARKING GARAGE B2 AT STAIR 6
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	✓Medium	__Medium	✓Moderate
__Low	__Low	✓Low	__Low

Comments: DAMAGE CAUSED BY VIBRATION (3 LF)

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 150 EA

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: MANDEN ELBOW (2)

LOCATION(S) OF HSA IN BLDG.: PARKING GARAGE B2 AT STAIR 6
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	✓Medium	✓Medium	✓Moderate
__Low	__Low	__Low	__Low

Comments: VIBRATION DAMAGE - 1 LF

AHERA Classification (see instructions): S

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 150 LF

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: MUDDED ELBOW

LOCATION(S) OF HSA IN BLDG.: PARKING GARAGE B2 OUTSIDE AHU ROOM F-27-1
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	✓Medium	✓Medium	✓Moderate
__Low	__Low	__Low	__Low

Comments: DAMAGE CAUSED BY PUNCTURE FROM OBJECT.

AHERA Classification (see instructions): S

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 100 LF

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: PIPE INSULATION

LOCATION(S) OF HSA IN BLDG.: PARKING GARAGE B2 OUTSIDE AHU ROOM F-27-16
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	✓Significant	__High
✓Thermal Systems Insulation	__Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
✓High	__High	__High	__High
__Medium	✓Medium	✓Medium	✓Moderate
__Low	__Low	__Low	__Low

Comments: SIGNIFICANT DAMAGE CAUSED BY PUNCTURE FROM OBJECT

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 150 EA

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: MUDDED ELBOW

LOCATION(S) OF HSA IN BLDG.: PARKING GARAGE B2 AT FREIGHT ELEVATOR
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	✓Medium	✓Medium	✓Moderate
__Low	__Low	__Low	__Low

Comments: DAMAGE CAUSED BY VIBRATION (LIFT)

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 150 EA

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: MUDDED ELBOW

LOCATION(S) OF HSA IN BLDG.: PARKING GARAGE B1 OUTSIDE B105
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	✓Medium	✓Medium	✓Moderate
__Low	__Low	__Low	__Low

Comments: DAMAGE CAUSED BY VIBRATION (<1 LF)

AHERA Classification (see instructions): S

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 150 EA

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: MUDDED ELBOWS

LOCATION(S) OF HSA IN BLDG.: PARKING GARAGE B1 AT 17th St. RAMP
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	✓Significant	__High
✓Thermal Systems Insulation	__Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
✓High	__High	__High	__High
__Medium	✓Medium	✓Medium	✓Moderate
__Low	__Low	__Low	__Low

Comments: SIGNIFICANT DAMAGE CAUSED BY VIBRATION FROM VEHICLES

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 50 EA

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: MUDDED FITTING (1)

LOCATION(S) OF HSA IN BLDG.: PARKING GARAGE B1
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓Medium	✓Medium	✓Medium	✓Moderate
__Low	__Low	__Low	__Low

Comments: DAMAGE CAUSED BY PUNCTURE/IMPACT FROM OBJECT (1 LF)

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 50 EA

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: MUDDED FITTING (2)

LOCATION(S) OF HSA IN BLDG.: PARKING GARAGE B1
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	✓Significant	__High
✓Thermal Systems Insulation	__Minor	✓Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
✓High	__High	__High	__High
__Medium	✓Medium	✓Medium	✓Moderate
__Low	__Low	__Low	__Low

Comments: SIGNIFICANT DAMAGE CAUSED BY VIBRATION FROM VEHICLES (2 LF)

AHERA Classification (see instructions): F

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: New Executive Office Bldg. ASSESSMENT DATE: 11/10/14
ADDRESS: 725 17th Street NW
GSA BLDG. NO.: DC0105ZZ AMOUNT(S.F./L.F./CU. F.) 150 EA

ASBESTOS INSPECTOR: TK / DAN

HOMOGENEOUS SAMPLING AREA #: _____
(Assign HSA Number)

HSA DESCRIPTION: MUDDED ELBOWS

LOCATION(S) OF HSA IN BLDG.: PARKING GARAGE B1 OUTSIDE CARPENTERS SHED
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓ Thermal Systems Insulation	✓ Minor	✓ Medium
__Miscellaneous Material	__None	__Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
✓ Medium	✓ Medium	✓ Medium	✓ Moderate
__Low	__Low	__Low	__Low

Comments: DAMAGE CAUSED BY VIBRATION (1 LF)

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
	N/A	

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

Attachment C

Laboratory Analysis Results

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

LAB #173190

NVLAP Lab Code: 200664-0

Customer: Mabbett & Associates
1940 Duke St #200
Alexandria VA 22314

Attn: Timothy Kenny

Lab Order ID: 1422019
Analysis ID: 1422019_PLM
Date Received: 11/11/2014
Date Reported: 11/11/2014

Project: NEOB, GSA, 2012011.086

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
NEOB-01A - A	4" black cove base w/white mastic	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous
1422019PLM_1	*covebase*				Ashed
NEOB-01A - B	4" black cove base w/white mastic	**None Detected**		**100% Other**	Cream Non Fibrous Homogeneous
1422019PLM_3	*mastic*				Dissolved
NEOB-01B - A	4" black cove base w/white mastic	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous
1422019PLM_2	*covebase*				Ashed
NEOB-01B - B	4" black cove base w/white mastic	**None Detected**		**100% Other**	Cream Non Fibrous Homogeneous
1422019PLM_4	*mastic*				Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommended that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Estimated MDL is 0.1%.

Sharon Donald (4)

Analyst

Approved Signatory

Scientific Analytical Institute
4604 Dundas Dr. Greensboro, NC 27407
Phone: 336.292.3888 Fax: 336.292.3313
www.sailab.com lab@sailab.com

Lab Use Only
Lab Order ID: 1422019
Client Code: _____

Company Contact Information	
Company: Mabbett and Associates	Contact: Timothy Kenny
Address: 1442 Duke Street	Phone ☑: 703-372-0889
Alexandria, VA 22314	Fax ☐:
	Email ☑: kenny@mabbett.com

Billing/Invoice Information	Turn Around Times	
Company: Mabbett and Associates	90 Min. ☐	48 Hours ☐
Contact: Timothy Kenny	3 Hours ☐	72 Hours ☐
Address: 5 Alfred Circle	6 Hours ☐	96 Hours ☐
Bedford, MA	12 Hours ☐	120 Hours ☐
	24 Hours ☑	144+Hours ☐

Asbestos Test Types	
PLM EPA 600/R-93/116 (PLM)	☑
Positive stop	☑
PLM Point Count 400 (PT4)	☐
PLM Point Count 1000 (PTM)	☐
PCM NIOSH 7400-A Rules (PCM)	☐
B Rules (PCB) ☐ TWA (PTA)	☐
TEM AHERA (AHE)	☐
TEM Level II (LII)	☐
TEM NIOSH 7402 (TNI)	☐
TEM Bulk Qualitative (TBL)	☐
TEM Bulk Chatfield (TBS)	☐
TEM Bulk Quantitative (TBQ)	☐
TEM Wipe ASTM D6480-05	☐
TEM Microvac ASTM D5755-02	☐
TEM Water EPA 100.2 (TW1)	☐
Other: _____	☐

PO Number:
Project Name/Number: NEOB GSA, 2012011.086

GSA Pricing

Sample ID #		Volume/Area	Comments
NEOB-01A	4" Black Cove base w/ white Mastic		Level B2 corridor
NEOB-01B	" "		

Accepted ☑
Rejected ☐

Total # of Samples _____

Relinquished by	Date/Time	Received by	Date/Time
Timothy Kenny	11/9/2014	[illegible]	11/11 830A
			FFO

Page 1 of 1
A-F-017 EXP: 12-1-13

Attachment D

Sampled Non-Asbestos Containing Building Materials List

Sampled Non Asbestos Containing Building Materials List
New Executive Office Building (NEOB)

Material	Sample Location	Color	Results	Sample Date
4" Black Cove Base w/white mastic	Level B2 Corridor	Black/Cream	None Detected	11/9/2014

Attachment E

Photos

Photograph: 1
Significantly Damaged Mudded Elbow Insulation Located on the B1 Level Parking Garage

Photograph 2:
Significantly Damaged Mudded Elbow Insulation Located on the B1 Level Parking Garage at 17th Street ramp

Mabbett & Associates, Inc.
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info@mabbett.com
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January 30, 2014

Mr. James Hodges, CHMM
Industrial Hygienist
General Services Administration (GSA)
Safety, Environment, & Fire Protection Branch
7th & D Streets, SW, Room 2080
Washington, D.C. 20407

Subject: **Annual Asbestos Operations and Maintenance Inspection Report**
New Executive Office Building (DC0105ZZ)
Contract No.: GS-11P-12-DC-C-007
Mabbett No.: 2012011.045

Dear Mr. Hodges:

Mabbett & Associates, Inc. (Mabbett®) received a request from GSA, NCR, Service Delivery Support Safety, Environmental, and Fire Protection Branch to conduct the annual asbestos operations and maintenance (O&M) inspection within 35 GSA facilities. This report summarizes the results of the inspection conducted at the New Executive Office Building located at 725 17th St. NW, Washington DC.

Mabbett Industrial Hygienists, Andrew Gronan (Inspector #115346) and Timothy Kenny (Inspector #AI01062014-3), performed the inspection from January 16 to 17, 2014. The inspection and sampling were performed in accordance with GSA and Asbestos Hazard and Emergency Response Act (AHERA) protocols.

Methods

Copies of the existing asbestos O&M reports containing locations and quantities of previously identified asbestos containing building materials (ACBM) were provided by GSA. Those areas were visually inspected to determine if the ACBM were still present, the quantity of each material remaining, and the condition of the materials. A visual inspection of the entire building was also conducted to find and sample materials that were not previously identified as potential ACBM.

Suspect ACBM were sampled and analyzed for asbestos content by polarized light microscopy (PLM). Samples collected were shipped to Scientific Analytical Institute Inc. (SAI) of Greensboro, North Carolina. SAI is accredited by the American Industrial Hygiene Association (AIHA) and participates in the National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos fiber analysis.

Findings

Visual inspection of the previously identified ACBM in the New Executive Office Building found 26 areas with damaged material and three areas with significant damage. The remaining ACBM inspected was found to be in good condition. The specific descriptions, locations and condition of the ACBM inspected can be found in the O&M Inventory and Surveillance Report Form in Attachment A and the Asbestos Assessment Data Forms in Attachment B. Photographs of the ACBM are available for viewing in Attachment D.

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A US Department of Veterans Affairs Verified Service-Disabled Veteran-Owned Small Business
Scientists | Engineers | Program Managers

A total of 12 samples of suspect ACBM were collected from four newly identified homogeneous areas. Two new homogenous areas, brown stick pin mastic and black duct seam mastic, were found to contain asbestos. Detailed sample information can be found in the Laboratory Analysis Report in Attachment C. A list of sampled materials that were found not to contain asbestos can be found in Attachment E.

A small number of areas were inaccessible during this inspection due to security restrictions. Due to office occupants being present, areas above the suspended ceiling tile were not always accessible during the inspection. All inaccessible suspect materials not evaluated are assumed to contain asbestos. All square and linear footage measurements are estimates only.

Conclusions & Recommendations

Consider removing, enclosing, encapsulating or repairing significantly damaged and damaged ACBM. All remaining ACBM that were in good condition should continue to be periodically inspected in accordance with AHERA guidelines.

Mabbett appreciates this opportunity to provide these asbestos consulting services for GSA, NCR. Should you have any questions or concerns, please do not hesitate to contact us at (703) 486-5680.

Very truly yours,

MABBETT & ASSOCIATES, INC.
BY:

Andrew Gronan, CHST
Industrial Hygienist

Reviewed by:

Damien Hammond, MS, CSP, CIH
Sr. Industrial Hygienist

Attachment A: O&M Inventory and Surveillance Report Form
Attachment B: Asbestos Assessment Data Form
Attachment C: Laboratory Analysis Results
Attachment D: Photos
Attachment E: Sampled Non Asbestos Containing Building Materials List

Attachment A

ASBESTOS INVENTORY AND PERIODIC SURVEILLANCE ASSESSMENT REPORT

BUILDING NAME: New Executive Office Building (NEOB)
BUILDING ADDRESS: 725 17th St. NW
INSPECTOR: AG, TK
ASBESTOS PROGRAM MANAGER: James Hodges

GSA BUILDING NUMBER: DC0105ZZ
DATE OF INSPECTION:1/16/14 - 1/17/14

DATE SUBMITTED TO WPMACB:

LOCATION(S) OF ACBM FLOOR/ROOM	HOMOGENEOUS MATERIAL	QUANTITY OF ACBM	FRIABLE YES/NO	CONDITION [1]	CAUSE OF DAMAGE [2]	QUANTITY OF DAMAGE (S.F./L.F.)	RECOMMENDED RESPONSE ACTION(S)[3]	DATE RESPONSE ACTION(S) COMPLETED
East Penthouse, Sub Basement, Parking Garage, Chiller Room	Mudded Elbows	450 EA	Yes	Good	N/A	N/A	O&M	
East Penthouse, Sub-Basement Tank Room, Parking Garage, Chiller Room	Mudded Fittings	250 EA	Yes	Good	N/A	N/A	O&M	
Sub Basement Compressor Room, Penthouse, Chiller Room	Pipe Insulation	4,030 L.F.	Yes	Good	N/A	N/A	O&M	
Outside G-112, Outside Library	Textured Ceiling Plaster	800 S.F.	Yes	Good	N/A	N/A	O&M	
East Penthouse, Ground Floor Mechanical Room G117, Sub-Basement Tank Room	Tank Insulation	1000 S.F.	Yes	Good	N/A	N/A	O&M	
Basement, Floors 6 - 10 Above Ceiling, 1st Floor Building Manager Hallway Above Ceiling, 1st Floor Above G1	Spray-on Fire Proofing	22,000 S.F.	Yes	Good	N/A	N/A	O&M	
East & West Penthouse	AHU Mastic	1,000 S.F.	No	Good	N/A	N/A	O&M	
East & West Penthouse	AHU Insulation	25,000 S.F.	Yes	Good	N/A	N/A	O&M	
Floors 2 and 10	Fire Doors	20 EA	No	Good	N/A	N/A	O&M	
East Penthouse	12"x12" Green Floor Tile Mastic	5,000 S.F.	No	Good	N/A	N/A	O&M	
Office Space Copy Rooms, Throughout Offices, Ground Floor Mechanical Room G117	9"x9" Gray w/ White Streaks Floor Tile and Mastic	900 S.F.	No	Good	N/A	N/A	O&M	
B227, B226, B206	12"x12" Gray w/ Gray Streaks Floor Tile and Mastic	600 S.F.	No	Good	N/A	N/A	O&M	
B227, B226, B206	12"x12" Red w/ Gray Streaks Floor Tile and Mastic	600 S.F.	No	Good	N/A	N/A	O&M	
B226	12"x12" Orange w/ Gray Streaks Floor Tile and Mastic	400 S.F.	No	Good	N/A	N/A	O&M	
G-117	Brown Stick Pin Mastic	20 S.F.	No	Good	N/A	N/A	O&M	
All Floors Above Ceiling	Black Duct Seam Mastic	15,000 L.F.	No	Good	N/A	N/A	O&M	
East Penthouse A-11-3	AHU Insulation	12,000 S.F.	Yes	Damaged	Impact	5 S.F.	Repair	
East Penthouse at Fenced Area	AHU Insulation	12,000 S.F.	Yes	Damaged	Puncture	1 S.F.	Repair	
West Penthouse F-27-6	AHU Insulation	12,000 S.F.	Yes	Damaged	Vibration	1 S.F.	Repair	
West Penthouse A-11-4	AHU Insulation (1)	12,000 S.F.	Yes	Damaged	Vibration	1 S.F.	Repair	
West Penthouse A-11-4	AHU Insulation (2)	12,000 S.F.	Yes	Damaged	Impact	2 S.F.	Repair	
West Penthouse A-11-4	AHU Insulation (3)	12,000 S.F.	Yes	Damaged	Impact	< 1 S.F.	Repair	
West Penthouse A-11-1	AHU Insulation (1)	12,000 S.F.	Yes	Damaged	Impact	1 S.F.	Repair	
West Penthouse A-11-1	AHU Insulation (2)	12,000 S.F.	Yes	Damaged	Impact	1 S.F.	Repair	
Sub-Basement Tank Room	Tank Insulation (1)	700 S.F.	Yes	Damaged	Vibration	3 S.F.	Repair	
Sub-Basement Tank Room	Tank Insulation (2)	700 S.F.	Yes	Damaged	Vibration	3 S.F.	Repair	
Sub-Basement Tank Room	Mudded Fittings	50 EA	Yes	Damaged	Vibration	4 L.F.	Repair	
Chiller Room	Mudded Fitting (1)	50 EA	Yes	Damaged	Vibration	1 L.F.	Repair	
Chiller Room	Mudded Fitting (2)	50 EA	Yes	Damaged	Impact	1 L.F.	Repair	

Chiller Room	Mudded Fitting (3)	50 EA	Yes	Damaged	Vibration	< 1 L.F.	Repair	
Chiller Room	Tank Insulation	200 S.F.	Yes	Damaged	Vibration	3 S.F.	Repair	
Chiller Room	Mudded Elbows (1)	50 EA	Yes	Damaged	Vibration	< 1 L.F.	Repair	
Chiller Room	Mudded Elbows (2)	50 EA	Yes	Damaged	Vibration	4 L.F.	Repair	
Chiller Room	Mudded Elbow (3)	50 EA	Yes	Damaged	Vibration	1 L.F.	Repair	
Chiller Room	Pipe Insulation	100 L.F.	Yes	Damaged	Puncture	< 1 L.F.	Repair	
Parking Garage B2 at Stair 6	Mudded Elbows (1)	150 EA	Yes	Damaged	Vibration	3 L.F.	Repair	
Parking Garage B2 at Stair 6	Mudded Elbow (2)	150 EA	Yes	Damaged	Vibration	1 L.F.	Repair	
Parking Garage B2 outside AHU Room F-27-16	Mudded Elbow	150 EA	Yes	Damaged	Puncture	< 1 L.F.	Repair	
Parking Garage B2 outside AHU Room F-27-16	Pipe Insulation	100 L.F.	Yes	Significantly Damaged	Puncture	2 L.F.	Remove or Encapsulate	
Parking Garage B2 at Freight Elevator	Mudded Elbow	150 EA	Yes	Damaged	Vibration	< 1 L.F.	Repair	
Parking Garage B1 outside B105	Mudded Elbow	150 EA	Yes	Damaged	Vibration	< 1 L.F.	Repair	
Parking Garage B1 at 17th St. Ramp	Mudded Elbows	150 EA	Yes	Significantly Damaged	Vibration	5 L.F.	Remove or Encapsulate	
Parking Garage B1	Mudded Fitting (1)	50 EA	Yes	Damaged	Puncture	1 L.F.	Repair	
Parking Garage B1	Mudded Fitting (2)	50 EA	Yes	Significantly Damaged	Vibration	2 L.F.	Remove or Encapsulate	
Parking Garage B1 outside Carpenters Shed	Mudded Elbow	150 EA	Yes	Damaged	Vibration	1 L.F.	Repair	

[1] GOOD, DAMAGED OR SIGNIFICANTLY DAMAGED

[2] AIR EROSION, VANDALISM, VIBRATION, WATER, ETC.

[3] REPAIR, REMOVE, ENCAPSULATE, ENCLOSE, OR O&M

Attachment B

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 450 EA

Location In Bldg: East Penthouse, Sub basement, Parking Garage, Chiller Rm.
(include Functional Space)

HOMOGENEOUS AREA: Mudded Elbows

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
✓ Medium
__Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 250 EA.

Location In Bldg: East Penthouse, Sub basement, Tank Rm. Parking Garage, Chiller ~~Pl~~ Rm.
(include Functional Space)

HOMOGENEOUS AREA: Mudded Fittings

Type of Material
__Fireproofing
__Acoustical Plaster
__Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
__Minor
✓ None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
✓ Medium
__Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 4,030 L.F.

Location In Bldg: Sub Basement Compressor Rm., Penthouse, Chiller Rm.
(include Functional Space)

HOMOGENEOUS AREA: Pipe Insulation

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
✓ None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
✓ Medium
__Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 800 S.F.

Location In Bldg: Outside G-112, Outside Library
(include Functional Space)

HOMOGENEOUS AREA: Textured Ceiling Plaster

Type of Material
__ Fireproofing
✓ Acoustical Plaster
__ Acoustical Tile
__ Thermal Systems Insulation
__ Vinyl Floor Tile
__ Other: _____

Damage
__ Significant
__ Minor
✓ None

Accessibility
__ High
__ Medium
✓ Low

Air Plenum N
(Y or N)

Friability
__ High
__ Medium
✓ Low

Traffic
__ High
✓ Medium
__ Low

Vibration
__ High
✓ Medium
__ Low

Potential for Air Erosion
__ High
✓ Moderate
__ Low

Comments: _____

AHERA Classification (see instructions): NA

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 500 S.F.

Location In Bldg: East Penthouse, Ground Floor Mechanical Rm. G117, Sub-Basement Tank Rm.
(include Functional Space)

HOMOGENEOUS AREA: Tank Insulation

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
✓ Significant
__Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
✓ Medium
__Low

Vibration
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

__High

Comments:

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 72,000 S.F.

Location In Bldg: * See Comments Section
(include Functional Space)

HOMOGENEOUS AREA: Spray-On Fire Proofing

Type of Material	Damage	Accessibility
✓ Fireproofing	__ Significant	__ High
__ Acoustical Plaster	✓ Minor	__ Medium
__ Acoustical Tile	__ None	✓ Low
__ Thermal Systems Insulation		
__ Vinyl Floor Tile		Air Plenum Y (Y or N)
__ Other:		

Friability	Traffic	Vibration	Potential for Air Erosion
__ High	__ High	__ High	__ High
✓ Medium	✓ Medium	✓ Medium	✓ Moderate
__ Low	__ Low	✓ Low	✓ Low

Comments: * Basement, Floors 6-10 Above Ceiling, 1st Floor Building Managers Hallway Above Ceiling, 1st Floor Above G1

AHERA Classification (see instructions): NA

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 1,000 S.F.

Location In Bldg: East and West Penthouse
(include Functional Space)

HOMOGENEOUS AREA: AHU Mastic

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
__Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
__Minor
✓ None

Accessibility
__High
__Medium
✓ Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
✓ Medium
__Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 10,000 S.F.

Location In Bldg: East and West Penthouse
(include Functional Space)

HOMOGENEOUS AREA: AHU Insulation

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
✓ None

Accessibility
__High
✓ Medium
✓ Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
✓ Low

Traffic
__High
✓ Medium
✓ Low

Vibration
__High
✓ Medium
✓ Low

Potential for Air Erosion
__High
✓ Moderate
✓ Low

Comments:

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 20 EA

Location In Bldg: Floors 2 and 10
(include Functional Space)

HOMOGENEOUS AREA: Fire Doors

Type of Material
- ✓ Fireproofing
- __ Acoustical Plaster
- __ Acoustical Tile
- __ Thermal Systems Insulation
- __ Vinyl Floor Tile
- __ Other: ____

Damage
- __ Significant
- __ Minor
- ✓ None

Accessibility
- ✓ High
- __ Medium
- __ Low

Air Plenum N
(Y or N)

Friability
- __ High
- ✓ Medium
- ✓ Low

Traffic
- ✓ High
- __ Medium
- __ Low

Vibration
- __ High
- ✓ Medium
- ✓ Low

Potential for Air Erosion
- __ High
- ✓ Moderate
- ✓ Low

Comments: ____

AHERA Classification (see instructions): NA

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 5000 S.F.

Location In Bldg: East Penthouse
(include Functional Space)

HOMOGENEOUS AREA: 12" x 12" Green Floor Tile Mastic

Type of Material
__Fireproofing
__Acoustical Plaster
__Acoustical Tile
__Thermal Systems Insulation
✓ Vinyl Floor Tile
__Other:

Damage
__Significant
__Minor
✓ None

Accessibility
__High
__Medium
✓ Low

Air Plenum N
(Y or N)

Friability
__High
__Medium
✓ Low

Traffic
__High
✓ Medium
__Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): NA

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 900 S.F.

Location In Bldg: Office Space Copy Rooms, Throughout Offices, Ground Floor Mech. Rm. G117
(include Functional Space)

HOMOGENEOUS AREA: 9"x9" Gray w/ White Streaks Floor Tile and Mastic

Type of Material
- __ Fireproofing
- __ Acoustical Plaster
- __ Acoustical Tile
- ✓ Thermal Systems Insulation
- ✓ Vinyl Floor Tile
- __ Other: ____

Damage
- __ Significant
- ✓ Minor
- ✓ None

Accessibility
- ✓ High
- __ Medium
- __ Low

Air Plenum N
(Y or N)

Friability
- __ High
- ✓ Medium
- ✓ Low

Traffic
- ✓ High
- __ Medium
- __ Low

Vibration
- __ High
- ✓ Medium
- ✓ Low

Potential for Air Erosion
- __ High
- ✓ Moderate
- ✓ Low

Comments: ____

AHERA Classification (see instructions): NA

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 600 S.F.

Location In Bldg: B227, B226, B206
(include Functional Space)

HOMOGENEOUS AREA: 12"x12" Gray w/ Gray Streaks Floor Tile and Mastic

Type of Material
__Fireproofing
__Acoustical Plaster
__Acoustical Tile
__Thermal Systems Insulation
✓ Vinyl Floor Tile
__Other:

Damage
__Significant
__Minor
✓ None

Accessibility
✓ High
__Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
__Medium
✓ Low

Traffic
✓ High
__Medium
__Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): NA

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 600 S.F.

Location In Bldg: B227, B226, B206
(include Functional Space)

HOMOGENEOUS AREA: 12" x 12" Red w/ Gray Streaks Floor Tile with Mastic

Type of Material
- __ Fireproofing
- __ Acoustical Plaster
- __ Acoustical Tile
- ✓ Thermal Systems Insulation
- ✓ Vinyl Floor Tile
- __ Other: ____

Damage
- __ Significant
- ✓ Minor
- __ None

Accessibility
- ✓ High
- __ Medium
- __ Low

Air Plenum N
(Y or N)

Friability
- __ High
- __ Medium
- ✓ Low

Traffic
- __ High
- ✓ Medium
- __ Low

Vibration
- __ High
- ✓ Medium
- __ Low

Potential for Air Erosion
- __ High
- __ Moderate
- ✓ Low

Comments: ____

AHERA Classification (see instructions): NA

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 400 S.F.

Location In Bldg: B226
(include Functional Space)

HOMOGENEOUS AREA: 12"x12" Orange w/ Gray Streaks Floor Tile and Mastic

Type of Material
__Fireproofing
__Acoustical Plaster
__Acoustical Tile
✓Thermal Systems Insulation
✓Vinyl Floor Tile
__Other:

Damage
__Significant
__Minor
✓None

Accessibility
✓High
__Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
__Medium
✓Low

Traffic
__High
✓Medium
__Low

Vibration
__High
✓Medium
__Low

Potential for Air Erosion
__High
__Moderate
✓Low

Comments:

AHERA Classification (see instructions): NA

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 20 S.F.

Location In Bldg: G-117
(include Functional Space)

HOMOGENEOUS AREA: Brown Stick Pin Mastic

Type of Material
__Fireproofing
__Acoustical Plaster
__Acoustical Tile
__Thermal Systems Insulation
✓ Vinyl Floor Tile
__Other: Mastic

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
✓ Medium
__Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): NA

Sample Number	Sample location	Result (Include percent and type of asbestos in result, e.g. 50% Chrysotile).
NEOB-2A	G-117	5% Chrysotile
NEOB-2B	↓	N/A
NEOB-2C		N/A

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 15,000 L.F.

Location In Bldg: All Floors Above Ceiling
(include Functional Space)

HOMOGENEOUS AREA: Black Duct Seam Mastic

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
✓ Significant
__Minor
✓ None

Accessibility
__High
✓ Medium
✓ Low

Air Plenum Y
(Y or N)

Friability
__High
✓ Medium
✓ Low

Traffic
__High
✓ Medium
✓ Low

Vibration
__High
✓ Medium
✓ Low

Potential for Air Erosion
__High
✓ Moderate
✓ Low

Comments:

AHERA Classification (see instructions): NA

Sample Number	Sample location	Result
NEOB-4A	Rm. 8203	5% Chrysotile
NEOB-4B	Outside 7208 Above Ceiling	N/A
NEOB-4C	" "	N/A

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 5. S.F.

Location In Bldg: East Penthouse A-11-3
(include Functional Space)

HOMOGENEOUS AREA: AHU Insulation

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
✓ Medium
✓ Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): ~~AHU~~ 1

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 1 S.F.

Location In Bldg: East Penthouse at Fenced Area
(include Functional Space)

HOMOGENEOUS AREA: AHU Insulation

Type of Material
__Fireproofing
__Acoustical Plaster
__Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
__Medium
✓ Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 1 S.F.

Location In Bldg: West Penthouse F-27-6
(include Functional Space)

HOMOGENEOUS AREA: AHU Insulation

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
__Medium
✓ Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
✓ Low

Comments:

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 1 S.F.

Location In Bldg: West Penthouse A-11-4
(include Functional Space)

HOMOGENEOUS AREA: AHU Insulation (1)

Type of Material
__Fireproofing
✓ Acoustical Plaster
__Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
✓ Medium
✓ Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
✓ Low

Comments:

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 2 S.F.

Location In Bldg: West Penthouse A-11-4
(include Functional Space)

HOMOGENEOUS AREA: AHU Insulation (2)

Type of Material
__Fireproofing
__Acoustical Plaster
__Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
__Medium
✓ Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) < 1 S.F.

Location In Bldg: Veat Penthouse A-11-4
(include Functional Space)

HOMOGENEOUS AREA: AHU Insulation (3)

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
__Medium
✓ Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
✓ Low

Comments:

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 1 S.F.

Location In Bldg: West Penthouse A-11-1
(include Functional Space)

HOMOGENEOUS AREA: AHU Insulation

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
✓ High
__Medium
__Low

Traffic
__High
✓ Medium
__Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
✓ Low
__High

Comments:

AHERA Classification (see instructions): 9

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 1 S.F.

Location In Bldg: West Penthouse A-11-1
(include Functional Space)

HOMOGENEOUS AREA: AHU Insulation (2)

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
✓ Medium
__Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 3 S.F.

Location In Bldg: Sub-Basement Tank Rm.
(include Functional Space)

HOMOGENEOUS AREA: Tank Insulation

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
__Medium
✓ Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
__Moderate
✓ Low

__High

Comments:

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 3 S.F.

Location In Bldg: Sub-Basement Tank Rm.
(include Functional Space)

HOMOGENEOUS AREA: Tank Insulation (2)

Type of Material
__Fireproofing
__Acoustical Plaster
__Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
__Medium
✓ Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
__Moderate
✓ Low

Comments:

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 4 L.F.

Location In Bldg: Sub-Basement Tank Rm.
(include Functional Space)

HOMOGENEOUS AREA: Mudded Fittings

Type of Material
__Fireproofing
✓ Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
✓ High
__Medium
__Low

Traffic
__High
✓ Medium
✓ Low

Vibration
__High
✓ Medium
✓ Low

Potential for Air Erosion
__High
✓ Moderate
✓ Low

Comments:

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 1 L.F.

Location In Bldg: Chiller Rm.
(include Functional Space)

HOMOGENEOUS AREA: Mudded Fittings (1)

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
__Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
__Medium
✓ Low

Traffic
__High
__Medium
✓ Low

Vibration
__High
__Medium
✓ Low

Potential for Air Erosion
__High
__Moderate
✓ Low

Comments:

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 1 L.F.

Location In Bldg: Chiller Rm.
(include Functional Space)

HOMOGENEOUS AREA: Mudded Fittings (2)

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
✓ Medium
__Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) < 1 L.F.

Location In Bldg: Chiller Rm.
(include Functional Space)

HOMOGENEOUS AREA: Mudded Fittings (3)

Type of Material
__Fireproofing
__Acoustical Plaster
__Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
✓ Medium
__Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 3 S.F.

Location In Bldg: Chiller Rm.
(include Functional Space)

HOMOGENEOUS AREA: Tank Insulation.

Type of Material
__Fireproofing
__Acoustical Plaster
__Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
__Medium
✓ Low

Traffic
__High
__Medium
✓ Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) < 1 L.F.

Location In Bldg: Chiller Rm.
(include Functional Space)

HOMOGENEOUS AREA: Mudded Elbows (1)

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
✓ Medium
__Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 4 L.F.

Location In Bldg: Chiller Rm.
(include Functional Space)

HOMOGENEOUS AREA: Mudded Elbows (2)

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
✓ Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
✓ Medium
✓ Low

Vibration
__High
✓ Medium
✓ Low

Potential for Air Erosion
__High
✓ Moderate
✓ Low

Comments:

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 1 L.F.

Location In Bldg: Chiller Rm.
(include Functional Space)

HOMOGENEOUS AREA: Mudded Elbow (3)

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
__Medium
✓ Low

Air Plenum N
(Y or N)

Friability
__High
__Medium
✓ Low

Traffic
__High
__Medium
✓ Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) < 1 L.F.

Location In Bldg: Chiller Rm.
(include Functional Space)

HOMOGENEOUS AREA: Pipe Insulation

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
✓ Medium
__Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 3 L.F.

Location In Bldg: Parking Garage B2 at Stair 6
(include Functional Space)

HOMOGENEOUS AREA: Mudded Elbows (1)

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
__Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
__Medium
✓ Low

Traffic
__High
__Medium
✓ Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
__Moderate
✓ Low

Comments:

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 1 L.F.

Location In Bldg: Parking Garage B2 at Stair 6
(include Functional Space)

HOMOGENEOUS AREA: Mudded Elbow (2)

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
✓ Medium
__Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) < 1 L.F.

Location In Bldg: Parking Garage B2 outside AHU Rm F-27-16
(include Functional Space)

HOMOGENEOUS AREA: Molded Elbow

Type of Material
__Fireproofing
__Acoustical Plaster
__Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
__Medium
✓ Low

Traffic
__High
✓ Medium
__Low

Vibration
__High
__Medium
✓ Low

Potential for Air Erosion
__High
__Moderate
✓ Low

Comments:

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) ~ 2 L.F.

Location In Bldg: Parking Garage B2 outside AHU Rm 2 F-27-16
(include Functional Space)

HOMOGENEOUS AREA: Pipe Insulation

Type of Material
- __ Fireproofing
- __ Acoustical Plaster
- ✓ Acoustical Tile
- ✓ Thermal Systems Insulation
- __ Vinyl Floor Tile
- __ Other: ____

Damage
- ✓ Significant
- __ Minor
- __ None

Accessibility
- __ High
- ✓ Medium
- __ Low

Air Plenum N
(Y or N)

Friability
- __ High
- ✓ Medium
- __ Low

Traffic
- __ High
- ✓ Medium
- __ Low

Vibration
- __ High
- ✓ Medium
- ✓ Low

Potential for Air Erosion
- __ High
- ✓ Moderate
- __ Low

Comments: ____

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) < 1 L.F.

Location In Bldg: Parking Garage B2 at Freight Elevator
(include Functional Space)

HOMOGENEOUS AREA: Mudded Elbow

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
✓ Low

Traffic
__High
✓ Medium
__Low

Vibration
__High
✓ Medium
✓ Low

Potential for Air Erosion
__High
✓ Moderate
✓ Low

Comments:

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) < 1 L.F.

Location In Bldg: Parking Garage B1 outside B105
(include Functional Space)

HOMOGENEOUS AREA: Mudded Elbow

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
✓ High
__Medium
__Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 5 L.F.

Location In Bldg: Parking Garage B1 at 17th St. Ramp
(include Functional Space)

HOMOGENEOUS AREA: Mudded Elbows

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
__Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
✓ Significant
__Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
✓ Medium
__Low

Vibration
__High
✓ Medium
__Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 1 L.F.

Location In Bldg: Parking Garage B1
(include Functional Space)

HOMOGENEOUS AREA: Mudded Fitting (1)

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
✓ Low

Traffic
__High
✓ Medium
__Low

Vibration
__High
✓ Medium
✓ Low

Potential for Air Erosion
__High
✓ Moderate
✓ Low

Comments:

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 2 L.F.

Location In Bldg: Parking Garage B1
(include Functional Space)

HOMOGENEOUS AREA: Mudded Fitting (2)

Type of Material
__Fireproofing
__Acoustical Plaster
✓ Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
✓ Significant
__Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
__Low

Traffic
__High
✓ Medium
__Low

Vibration
__High
__Medium
✓ Low

Potential for Air Erosion
__High
✓ Moderate
__Low

Comments:

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

ASBESTOS ASSESSMENT DATA FORM

BLDG NAME: NEOB
ADDRESS: 725 17th St. NW
GSA BLDG NO.: DC0105ZZ

ASSESSMENT DATE: 1/16/14 - 1/17/14
AMOUNT(S.F./L.F.) 1 L.F.

Location In Bldg: Parking Garage B1 outside Carpenters Shed
(include Functional Space)

HOMOGENEOUS AREA: Molded Elbow

Type of Material
__Fireproofing
✓ Acoustical Plaster
__Acoustical Tile
✓ Thermal Systems Insulation
__Vinyl Floor Tile
__Other:

Damage
__Significant
✓ Minor
__None

Accessibility
__High
✓ Medium
__Low

Air Plenum N
(Y or N)

Friability
__High
✓ Medium
✓ Low

Traffic
__High
✓ Medium
__Low

Vibration
__High
✓ Medium
✓ Low

Potential for Air Erosion
__High
✓ Moderate
✓ Low

Comments:

AHERA Classification (see instructions): 7

Sample Number	Sample location	Result

(Include percent and type of asbestos in result, e.g. 50% Chrysotile).

Attachment C

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Mabbett & Associates
1940 Duke St #200
Alexandria VA 22314

Attn:

Lab Order ID: 1401230
Analysis ID: 1401230_PLM
Date Received: 1/24/2014
Date Reported: 1/24/2014

Project: NEOB O&M Survey

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
NEOB-1A / *1401230PLM_1*	Brown Glue Dots	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous / Dissolved
NEOB-1B / *1401230PLM_2*	Brown Glue Dots	**None Detected**	**3% Other**	**97% Other**	Brown Non Fibrous Homogeneous / Dissolved
NEOB-1C / *1401230PLM_3*	Brown Glue Dots	**None Detected**	**3% Other**	**97% Other**	Brown Non Fibrous Homogeneous / Dissolved
NEOB-2A / *1401230PLM_4*	Brown Stick Pin Mastic	**5% Chrysotile**		**95% Other**	Brown Non Fibrous Homogeneous / Dissolved
NEOB-2B / *1401230PLM_5*	Brown Stick Pin Mastic	**Not Analyzed**			
NEOB-2C / *1401230PLM_6*	Brown Stick Pin Mastic	**Not Analyzed**			
NEOB-3A / *1401230PLM_7*	Spray-On Fireproofing	**None Detected**	**10% Fiber Glass**	**90% Other**	White Non Fibrous Homogeneous / Crushed
NEOB-3B / *1401230PLM_8*	Spray-On Fireproofing	**None Detected**	**10% Fiber Glass**	**90% Other**	White Non Fibrous Homogeneous / Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommended that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Estimated MDL is 0.1%.

Bart Huber (12)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Mabbett & Associates
1940 Duke St #200
Alexandria VA 22314

Attn:

Lab Order ID: 1401230
Analysis ID: 1401230_PLM
Date Received: 1/24/2014
Date Reported: 1/24/2014

Project: NEOB O&M Survey

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
NEOB-3C	Spray-On Fireproofing	**None Detected**	**10% Fiber Glass**	**90% Other**	White Non Fibrous Homogeneous
1401230PLM_9					Crushed
NEOB-4A	Black Duct Seam Mastic	**5% Chrysotile**		**95% Other**	Black Non Fibrous Heterogeneous
1401230PLM_10					Dissolved
NEOB-4B	Black Duct Seam Mastic	**Not Analyzed**			
1401230PLM_11					
NEOB-4C	Black Duct Seam Mastic	**Not Analyzed**			
1401230PLM_12					

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommended that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Estimated MDL is 0.1%.

Bart Huber (12)

Analyst

Approved Signatory

Client:	Mabbett & Associates	***Instructions:***
Contact:	Andrew Gronan	*Use Column "B" for your contact info*
Address:	1940 Duke St. Ste. 200 Alexandria, VA 22314	
Phone:	703-486-5680	*To See an Example Click the bottom Example Tab.*
Fax:		
Email:	gronan@mabbett.com cc: hammond@mabbett.com	***Enter samples between "<<" and ">>"***
Project:	NEOB O&M Survey	***Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.***
Client Notes:	Invoice at GSA approved fees.	*Only Enter your data on the first sheet "Sheet1"*
P.O. #.	2012011.045	*Note: Data 1 and Data 2 are optional*
Date Submitted:	1/22/2014	*fields that do not show up on the official report, however they will be included*
Analysis:	PLM EPA (Positive Stop)	*in the electronic data returned to you*
TurnAroundTime:	24 Hours	*to facilitate your reintegration of the report data.*

1401230

Scientific Analytical Institute
4604 Dundas Drive
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Data 1 - Date	Sample Description	Data 2 - Location
<<			
NEOB-1A	1/16/2014	Brown Glue Dots	East Penthouse at Stairs
NEOB-1B	1/16/2014	Brown Glue Dots	East Penthouse Outside F-29-3
NEOB-1C	1/16/2014	Brown Glue Dots	West Penthouse A-11-4
NEOB-2A	1/17/2014	Brown Stick Pin Mastic	G-117
NEOB-2B	1/17/2014	Brown Stick Pin Mastic	G-117
NEOB-2C	1/17/2014	Brown Stick Pin Mastic	G-117
NEOB-3A	1/17/2014	Spray-On Fireproofing	B1 Garage Carpenter Store Room
NEOB-3B	1/17/2014	Spray-On Fireproofing	B1 Garage Carpenter Store Room
NEOB-3C	1/17/2014	Spray-On Fireproofing	B1 Garage Carpenter Store Room
NEOB-4A	1/17/2014	Black Duct Seam Mastic	Room 8203
NEOB-4B	1/17/2014	Black Duct Seam Mastic	Outside 7208 Above Ceiling
NEOB-4C	1/17/2014	Black Duct Seam Mastic	Outside 7208 Above Ceiling
>>			

Andrew Gronan

1/22/14

Accepted ☑ MR

Rejected ☐ 1-24

Attachment D

Photo 1: Chiller Room Mudded Elbows (1) Damaged

Photo 2: Chiller Room Mudded Elbows (2) Damaged

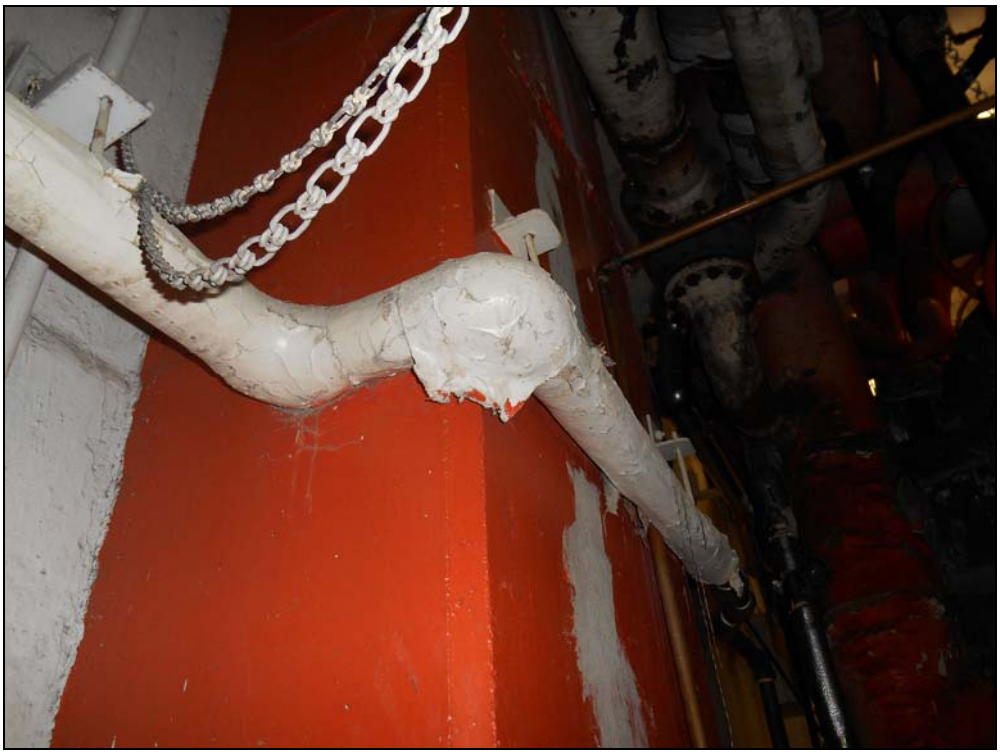

Photo 3: Chiller Room Mudded Elbows (3) Damaged

Photo 4: Chiller Room Mudded Fitting (1) Damaged

Photo 5: Chiller Room Mudded Fitting (2) Damaged

Photo 6: Chiller Room Mudded Fitting (3) Damaged

Photo 7: Chiller Room Pipe Insulation Damaged

Photo 8: Chiller Room Tank Insulation Damaged

Photo 9: East Penthouse A-11-3 AHU Insulation Damaged

Photo 10: East Penthouse at Fenced Area AHU Insulation Damaged

Photo 11: Parking Garage B1 at 17th St. Ramp Mudded Elbows Significantly Damaged

Photo 12: Parking Garage B1 Mudded Fitting (1) Damaged

Photo 13: Parking Garage B1 Mudded Fitting (2) Significantly Damaged

Photo 14: Parking Garage B1 outside B105 Mudded Elbow Damaged

Photo 15: Parking Garage B1 outside Carpenters Shed Mudded Elbow Damaged

Photo 16: Parking Garage B2 at Freight Elevator Mudded Elbow Damaged

Photo 17: Parking Garage B2 at Stair 6 Mudded Elbows (1) Damaged

Photo 18: Parking Garage B2 at Stair 6 Mudded Elbows (2) Damaged

Photo 19: Parking Garage B2 outside AHU Room F-27-16 Mudded Elbow Damaged

Photo 20: Parking Garage B2 outside AHU Room F-27-16 Pipe Insulation Significantly Damaged

Photo 21: Sub-Basement Tank Room Mudded Fittings Damaged

Photo 22: Sub-Basement Tank Room Tank Insulation (1) Damaged

Photo 23: Sub-Basement Tank Room Tank Insulation (2) Damaged

Photo 24: West Penthouse A-11-1 AHU Insulation (1) Damaged

Photo 25: West Penthouse A-11-1 AHU Insulation (2) Damaged

Photo 26: West Penthouse A-11-4 AHU Insulation (1) Damaged

Photo 27: West Penthouse A-11-4 AHU Insulation (2) Damaged

Photo 28: West Penthouse A-11-4 AHU Insulation (3) Damaged

Photo 29: West Penthouse F-27-6 AHU Insulation Damaged

Attachment E

Sampled Non Asbestos Containing Building Materials List
New Executive Office Building

Material	Sample Location	Color	Results	Sample Date
Brown Glue Dots	East Penthouse at Stairs, East Penthouse Outside F-29-3, West Penthouse A-11-4	Brown	None Detected	1/16/2014
Spray-On Fireproofing	B1 Garage Carpenter Store Room	White	None Detected	1/17/2014

MasiMax
Resources, Inc.

May 14, 2004

Cathy Figuracion
General Service Administration (GSA)
Safety, Environmental & Fire Protection Branch
7th & D Streets, S.W. Room 2080
Washington, D.C. 20407

Subject: Contract Number: GS11P01MQD0056
Delivery Order Number: P-11-04-DC-0148
ACT Number: PJ4N02344

Dear Ms. Figuracion:

MasiMax Resources, Inc. received a delivery order from GSA, NCR, Service Delivery Support Safety, Environmental and Fire Protection Branch to conduct the Annual Fiber-In-Air (FIA) Survey in the New Executive Office Building, located at 725 17th Street, NW in Washington, DC. The sampling was conducted on May 10, 11, and 12, 2004.

MasiMax's Environmental Health Specialist, Eugene Krevinko, arranged with the site's contact, Rickie Knight, to perform the sampling. After arriving at the building each day, Mr. Krevinko met with GSA White House Center representative, David D. Jagdhane who escorted him to the selected locations. Please note locations were selected based on air-handling zones. There are four air-handling zones in the building; one sample was collected in each zone, per floor in the building. There are ten floors with four area samples collected per floor (one from each zone); therefore a total of forty samples were collected.

The samples were collected during routine work hours from 9:00am to 5:00pm. The samples were collected and analyzed in accordance with National Institute for Occupational Safety and Health (NIOSH) Analytical Method 7400, Asbestos Fibers by Phase Contrast Microscopy (PCM).

Results of the analyses for all forty air samples and six field blanks detected less than 0.01 fibers per cubic centimeter of air (<0.01 f/cc). Sample results are provided in Table 1 in Attachment A to this letter. Field work sheets and fiber counting work sheets are contained in Attachment B.

Since all air samples tested <0.01 f/cc, no samples had to be submitted to an outside laboratory for analysis by transmission electron microscopy (TEM).

MasiMax Environmental Health and Safety Services
11417 Sunset Hills Road, Suite 225
Reston, VA 20190
Phone: (571)203-7766 Fax: (571)203-7911

If you should have any questions or require any further information, please call me at (571) 203-7766, extension 111.

Sincerely,

MASIMAX RESOURCES, INC.

Martin Wizorek, CIH, CSP
Project Manager, Environmental Health and Safety Services

ATTACHMENT A

SUMMARY TABLE OF RESULTS

Table 1 - Fibers In Air Sampling Results for
New Executive Office Building, 725 17th Street, N.W., Washington D.C.
Collected 05/10/04, 05/11/04, and 05/12/04

Sample Number	Sample Type	Location	Average Flow Rate	l Time (minu	Total Volume (Liters)	Sample Results	
						Fibers per 100 Fields	Results (f/cc)
EK051004-01	Area	10th Floor, Room 10235 (AHU #1)	3.5	355	1243	16	<0.01
EK051004-02	Area	10th Floor, Room 10201 (AHU #4)	3.5	356	1246	12	<0.01
EK051004-03	Area	10th Floor, Room 10025 (AHU #2)	3.5	278	973	Void	Void
EK051004-04	Area	10th Floor, Room 10002 (AHU #3)	3.5	354	1239	9	<0.01
EK051004-05	Area	8th Floor, Room 8236 (AHU #1)	3.5	354	1239	13	<0.01
EK051004-06	Area	8th Floor, Room 8201 (AHU #4)	3.5	356	1246	11	<0.01
EK051004-07	Area	8th Floor, Room 8026 (AHU #2)	3.5	353	1236	15.5	<0.01
EK051004-08	Area	8th Floor, Corridor by Rooms 8001 & 8005 (AHU #3)	3.5	352	1232	12	<0.01
EK051004-09	Area	6th Floor, Room 6025 (AHU #2)	3.5	212	742	Void	Void
EK051004-10	Area	6th Floor, Room 6002 (AHU #3)	3.5	349	1222	15	<0.01
EK051004-11	Area	6th Floor, Room 6203 (AHU #4)	3.5	348	1218	10.5	<0.01
EK051004-12	Field Blank	Field Blank	Field Blank	N/A	N/A	0/100	<0.01
EK051004-13	Field Blank	Field Blank	Field Blank	N/A	N/A	0/100	<0.01
EK051104-01	Area	9th Floor, Room 9235 (AHU #1)	3.5	343	1201	6.5	<0.01
EK051104-02	Area	9th Floor, Room 9202 (AHU #4)	3.5	343	1201	8	<0.01
EK051104-03	Area	9th Floor, Room 9026 (AHU #2)	3.5	343	1201	11	<0.01
EK051104-04	Area	9th Floor, Room 9002 (AHU #3)	3.5	343	1201	12.5	<0.01
EK051104-05	Area	7th Floor, Room 7236 (AHU #1)	3.5	343	1201	7	<0.01
EK051104-06	Area	7th Floor, Room 7203 (AHU #4)	3.5	343	1201	9.5	<0.01
EK051104-07	Area	7th Floor, Room 7025 (AHU #2)	3.5	343	1201	8	<0.01
EK051104-08	Area	7th Floor, Room 7001 (AHU #3)	3.5	343	1201	7.5	<0.01
EK051104-09	Area	5th Floor, Room 5025 (AHU #2)	3.5	344	1204	9	<0.01
EK051104-10	Area	5th Floor, Room 5001 (AHU #3)	3.5	343	1201	11	<0.01
EK051104-11	Area	5th Floor, Room 5116 (AHU #4)	3.5	343	1201	14	<0.01
EK051104-12	Area	5th Floor, Room 5236 (AHU #1)	3.5	343	1201	8	<0.01
EK051104-13	Area	3rd Floor, Room 3202 (AHU #4)	3.5	343	1201	13.5	<0.01
EK051104-14	Area	3rd Floor, Room 3235 (AHU #1)	3.5	343	1201	10	<0.01
EK051104-15	Area	3rd Floor, Room 3001 (AHU #3)	3.5	343	1201	17	<0.01
EK051104-16	Area	3rd Floor, Room 3025 (AHU #2)	3.5	343	1201	12	<0.01
EK051104-17	Area	B-2 Floor, Room SB-236 (AHU #1)	3.5	344	1204	16.5	<0.01
EK051104-18	Area	B-2 Floor, Room SB-229 (AHU #2)	3.5	345	1208	18	<0.01
EK051104-19	Field Blank	Field Blank	Field Blank	N/A	N/A	0/100	<0.01
EK051104-20	Field Blank	Field Blank	Field Blank	N/A	N/A	0/100	<0.01
EK051204-01	Area	6th Floor, Room 6026 (AHU #2)	3.5	362	1267	9	<0.01
EK051204-02	Area	6th Floor, Room 6236 (AHU #1)	3.5	363	1271	11.5	<0.01
EK051204-03	Area	4th Floor, Room 4101 (AHU #2)	3.5	N/A	N/A	Void	Void
EK051204-04	Area	4th Floor, Room 4009 (AHU #3)	3.5	360	1260	6.5	<0.01
EK051204-05	Area	4th Floor, Room 4203 (AHU #4)	3.5	363	1271	8	<0.01
EK051204-06	Area	4th Floor, Corridor by Room 4216 (AHU #1)	3.5	362	1267	7	<0.01
EK051204-07	Area	2nd Floor, Room 2200-A (AHU #4)	3.5	343	1201	9	<0.01
EK051204-08	Area	2nd Floor, Room 2211 (AHU #1)	3.5	345	1208	12	<0.01
EK051204-09	Area	2nd Floor, Room 2020 (AHU #2)	3.5	346	1211	14	<0.01

Table 1 - Fibers In Air Sampling Results for
New Executive Office Building, 725 17th Street, N.W., Washington D.C.
Collected 05/10/04, 05/11/04, and 05/12/04

Sample Number	Sample Type	Location	Average Flow Rate	l Time (minu	Total Volume (Liters)	Sample Results	
						Fibers per 100 Fields	Results (f/cc)
EK051204-10	Area	2nd Floor, Room 2008 (AHU #3)	3.5	343	1201	8.5	<0.01
EK051204-11	Area	Ground Floor, Back Lobby (AHU #2)	3.5	345	1208	9.5	<0.01
EK051204-12	Area	Ground Floor, Room G-008 (AHU #3)	3.5	347	1215	7	<0.01
EK051204-13	Area	Ground Floor, Room G-230 (AHU #1)	3.5	351	1229	13	<0.01
EK051204-14	Area	B-1 Floor, Corridor by Room B-212 (AHU #4)	3.5	347	1215	11.5	<0.01
EK051204-15	Field Blank	Field Blank	Field Blank	N/A	N/A	0/100	<0.01
EK051204-16	Field Blank	Field Blank	Field Blank	N/A	N/A	0/100	<0.01

ATTACHMENT B

FIELD AND ANALYSIS WORK SHEETS

p. 1 5/10

AIR SAMPLE DATA SHEET

AxiMax Resources, Inc.
Environmental Health and Safety Services
11417 Sunset Hills Road, Suite 225
Reston, VA 20190
PH: (571) 203 – 7766
FAX: (571) 203 – 7911

Technician: E. Kravinko
Date: 5-10-04
Project #: 139.193
Client: GSA Safety
Site Location: NEOB
Activity: FIA Survey

Sample #: EK051004-01 Pump #:
Sample Location: Rm. 10235 (between offices A & D)
Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
10th Fl. Time On: 9:15 Time Off: 15:10
AHU #1 Total Time: 355 min. Total Volume: 1243 l
Result: <0.01

Sample #: " - 02 Pump #:
Sample Location: Room 10201
Air Flow Rate Pre: 3.5 Post: 3.5
10th Fl. Avg: "
AHU #4 Time On: 9:19 Time Off: 15:15
Total Time: 356 min Total Volume: 1246 l
Result: <0.01

Sample #: " - 03 Pump #:
Sample Location: Room 10025
Air Flow Rate Pre: 3.5 Post: 3.5
10th Fl. Avg: "
AHU #2 Time On: 9:24 Time Off: 14:02
Total Time: 278 min. Total Volume: 973 l
Result: - Void -

* Powered Out prior to 1200 l

Sample #: " - 04 Pump #:
Sample Location: Rm. 10002
Air Flow Rate Pre: 3.5 Post: 3.5
10th Fl Avg: "
AHU #3 Time On: 9:28 Time Off: 15:22
Total Time: 354 min Total Volume: 1239 l
Result: <0.01

Sample #: " - 05 Pump #:
Sample Location: Rm. 8236
8th Fl. Air Flow Rate Pre: 3.5 Post: 3.5
AHU #1 Avg: "
Time On: 9:34 Time Off: 15:28
Total Time: 354 min Total Volume: 1239 l
Result: <0.01

p.2 5/10

AIR SAMPLE DATA SHEET

JxMax Resources, Inc.
Environmental Health and Safety Services
11417 Sunset Hills Road, Suite 225
Reston, VA 20190
PH: (571) 203 – 7766
FAX: (571) 203 – 7911

Technician: Same As p. 1
Date:
Project #:
Client:
Site Location:
Activity:

8th Fl AHU # 4

Sample #: FK051004-06 Pump #:
Sample Location: Rm. 8201
Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
Time On: 9:38 Time Off: 15:34
Total Time: 356 min. Total Volume: 1246 l
Result: <0.01

8th Fl AHU # 2

Sample #: " -07 Pump #:
Sample Location: Rm. 8026
Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
Time On: 9:44 Time Off: 15:37
Total Time: 353 min. Total Volume: 1236 l
Result: <0.01

8th Fl AHU # 3

Sample #: " -08 Pump #:
Sample Location: Rm. 8001 + 8005 (Corridor)
Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
Time On: 9:48 Time Off: 15:40
Total Time: 352 min. Total Volume: 1232 l
Result: <0.01

6th Fl AHU # 2

Sample #: " -09 Pump #:
Sample Location: Rm. 6025
Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
Time On: 9:55 Time Off: 13:27
Total Time: 212 min. Total Volume: 742 l
Result: -Void-

Powered out prior to 1200 l

6th Fl. AHU # 3

Sample #: " -10 Pump #:
Sample Location: Rm. 6002
Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
Time On: 9:59 Time Off: 15:48
Total Time: 349 min Total Volume: 1222 l
Result: <0.01

p.3 5/10

AIR SAMPLE DATA SHEET

AxiMax Resources, Inc.
Environmental Health and Safety Services
11417 Sunset Hills Road, Suite 225
Reston, VA 20190
PH: (571) 203 – 7766
FAX: (571) 203 – 7911

Technician: Same as p. 1
Date:
Project #:
Client:
Site Location:
Activity:

6th Fl.
AHU #4

Sample #: EK051004-11 Pump #:
Sample Location: Rm 6203
Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
Time On: 10:03 Time Off: 15:51
Total Time: 348 min Total Volume: 1218 l
Result: <0.01

Sample #: Pump #:
Sample Location:
Air Flow Rate Pre: Post:
Avg:
Time On: Time Off:
Total Time: Total Volume:
Result:

Sample #: Pump #:
Sample Location:
Air Flow Rate Pre: Post:
Avg:
Time On: Time Off:
Total Time: Total Volume:
Result:

Sample #: Pump #:
Sample Location:
Air Flow Rate Pre: Post:
Avg:
Time On: Time Off:
Total Time: Total Volume:
Result:

Sample #: Pump #:
Sample Location:
Air Flow Rate Pre: Post:
Avg:
Time On: Time Off:
Total Time: Total Volume:
Result:

p.1 5/11

AIR SAMPLE DATA SHEET

AxiMax Resources, Inc.
Environmental Health and Safety Services
11417 Sunset Hills Road, Suite 225
Reston, VA 20190
PH: (571) 203 – 7766
FAX: (571) 203 – 7911

Technician: E. Krevinko
Date: 5-11-04
Project #: 139-193
Client: GSA Safety
Site Location: NEOB
Activity: FIA Survey

9th Fl. AHU #1

Sample #: EK051104-01 Pump #:
Sample Location: Rm. 9235
Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
Time On: 9:55 Time Off: 15:38
Total Time: 343 min Total Volume: 1201 l
Result: <0.01

9th Fl. AHU #4

Sample #: " - 02 Pump #:
Sample Location: Rm. 9202
Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
Time On: 9:58 Time Off: 15:41
Total Time: 343 min Total Volume: 1201 l
Result: <0.01

9th Fl. AHU #2

Sample #: " - 03 Pump #:
Sample Location: Rm 9026
Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
Time On: 10:01 Time Off: 15:44
Total Time: 343 min Total Volume: 1201 l
Result: <0.01

9th Fl. AHU #3

Sample #: " - 04 Pump #:
Sample Location: Rm. 9002
Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
Time On: 10:04 Time Off: 15:47
Total Time: 343 min Total Volume: 1201 l
Result: <0.01

7th Fl. AHU #1

Sample #: " - 05 Pump #:
Sample Location: Rm. 7236
Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
Time On: 10:09 Time Off: 15:52
Total Time: 343 min Total Volume: 1201 l
Result: <0.01

p.2 5/11

AIR SAMPLE DATA SHEET

AxiMax Resources, Inc.
Environmental Health and Safety Services
11417 Sunset Hills Road, Suite 225
Reston, VA 20190
PH: (571) 203 – 7766
FAX: (571) 203 – 7911

Technician: Same as p.1
Date:
Project #:
Client:
Site Location:
Activity:

Sample #: EK051104-06 Pump #:
Sample Location: Rm 7203
Air Flow Rate Pre: 3.5 Post: 3.5
7th Fl. Avg: "
AHU #4 Time On: 10:12 Time Off: 15:55
Total Time: 343 min. Total Volume: 1201 l
Result: <0.01

Sample #: " - 07 Pump #:
7th Fl. Sample Location: Rm. 7025
Air Flow Rate Pre: 3.5 Post: 3.5
AHU #2 Avg: "
Time On: 10:15 Time Off: 15:58
Total Time: 343 min Total Volume: 1201 l
Result: <0.01

Sample #: " - 08 Pump #:
7th Fl. Sample Location: Rm. 7001
Air Flow Rate Pre: 3.5 Post: 3.5
AHU #3 Avg: "
Time On: 10:17 Time Off: 16:00
Total Time: 343 min Total Volume: 1201 l
Result: <0.01

Sample #: " - 09 Pump #:
Sample Location: Rm. 5025
5th Fl. Air Flow Rate Pre: 3.5 Post: 3.5
AHU # 2 Avg: "
Time On: 10:22 Time Off: 16:06
Total Time: 344 min. Total Volume: 1204 l
Result: <0.01

Sample #: " - 10 Pump #:
5th Fl. Sample Location: Rm. 5001
Air Flow Rate Pre: 3.5 Post: 3.5
AHU #3 Avg: "
Time On: 10:24 Time Off: 16:07
Total Time: 343 min Total Volume: 1201 l
Result: <0.01

p. 3 5/11

AIR SAMPLE DATA SHEET

...xiMax Resources, Inc.
Environmental Health and Safety Services
11417 Sunset Hills Road, Suite 225
Reston, VA 20190
PH: (571) 203 – 7766
FAX: (571) 203 – 7911

Technician: Same as p. 1
Date:
Project #:
Client:
Site Location:
Activity:

5th Fl. AHU #4

Sample #: EK051104-11 | Pump #:
Sample Location: Rm. 5116
Air Flow Rate Pre: 3.5 | Post: 3.5
Avg: "
Time On: 10:26 | Time Off: 16:09
Total Time: 343 min | Total Volume: 1201 l
Result: <0.01

5th Fl. AHU #1

Sample #: " -12 | Pump #:
Sample Location: Rm. 5236
Air Flow Rate Pre: 3.5 | Post: 3.5
Avg: "
Time On: 10:28 | Time Off: 16:11
Total Time: 343 min | Total Volume: 1201 l
Result: <0.01

3rd Fl AHU #4

Sample #: " -13 | Pump #:
Sample Location: Rm. 3202
Air Flow Rate Pre: 3.5 | Post: 3.5
Avg: "
Time On: 10:32 | Time Off: 16:15
Total Time: 343 min | Total Volume: 1201 l
Result: <0.01

3rd Fl AHU #1

Sample #: " -14 | Pump #:
Sample Location: Rm. 3235
Air Flow Rate Pre: 3.5 | Post: 3.5
Avg: "
Time On: 10:35 | Time Off: 16:18
Total Time: 343 min | Total Volume: 1201 l
Result: <0.01

3rd Fl. AHU #3

Sample #: " -15 | Pump #:
Sample Location: Rm. 3001
Air Flow Rate Pre: 3.5 | Post: 3.5
Avg: "
Time On: 10:38 | Time Off: 16:21
Total Time: 343 min | Total Volume: 1201 l
Result: <0.01

p. 4 5/11

AIR SAMPLE DATA SHEET

AxiMax Resources, Inc.
Environmental Health and Safety Services
11417 Sunset Hills Road, Suite 225
Reston, VA 20190
TEL (571) 203 - 7766
FAX (571) 203 - 7911

Technician: Same as p. 1
Date:
Project #:
Client:
Site Location:
Activity:

3rd Fl. AHU #2

Sample #: EK051104-16 | Pump #:
Sample Location: Rm. 3025
Air Flow Rate Pre: 3.5 | Post: 3.5
Avg: "
Time On: 10:40 | Time Off: 16:23
Total Time: 343 min. | Total Volume: 1201 l
Result: <0.01

B-2 Fl AHU #1

Sample #: " -17 | Pump #:
Sample Location: SB-236
Air Flow Rate Pre: 3.5 | Post: 3.5
Avg: "
Time On: 10:46 | Time Off: 16:30
Total Time: 344 min. | Total Volume: 1204 l
Result: <0.01

B-2 Fl AHU #2

Sample #: " - 18 | Pump #:
Sample Location: SB-229
Air Flow Rate Pre: 3.5 | Post: 3.5
Avg: "
Time On: 10:50 | Time Off: 16:35
Total Time: 345 min. | Total Volume: 1208 l
Result: <0.01

Sample #: | Pump #:
Sample Location:
Air Flow Rate Pre: | Post:
Avg:
Time On: | Time Off:
Total Time: | Total Volume:
Result:

Sample #: | Pump #:
Sample Location:
Air Flow Rate Pre: | Post:
Avg:
Time On: | Time Off:
Total Time: | Total Volume:
Result:

p.1 5/12

AIR SAMPLE DATA SHEET

AxiMax Resources, Inc.
Environmental Health and Safety Services
11417 Sunset Hills Road, Suite 225
Reston, VA 20190
PH: (571) 203 – 7766
FAX: (571) 203 – 7911

Technician: F. Krevinko
Date: 5-12-04
Project #: 139-193
Client: GSA Safety
Site Location: NLOB
Activity: F/A Survey

Sample #: EK051204-01 Pump #:
Sample Location: Rm. 6026
6th Fl Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
AHU #2 Time On: 10:05 Time Off: 16:07
Total Time: 362 min. Total Volume: 1267 l
Result: <0.01

Sample #: " -02 Pump #:
Sample Location: Rm. 6236
6th Fl. Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
AHU # 1 Time On: 10:09 Time Off: 16:12
Total Time: 363 min. Total Volume: 1271 l
Result: <0.01

Sample #: " -03 Pump #:
Sample Location: Rm 4101
4th Fl Air Flow Rate Pre: 3.5 Post: —
Avg: "
AHU #2 Time On: 10:14 Time Off: —
Total Time: N/A Total Volume: N/A
Result: Void
Turned-off

Sample #: " -04 Pump #:
4th Fl Sample Location: Rm 4009
AHU # 3 Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
Time On: 10:17 Time Off: 16:17
Total Time: 360 min Total Volume: 1260 l
Result: <0.01

Sample #: " -05 Pump #:
4th Fl. Sample Location: Rm. 4203
AHU # 4 Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
Time On: 10:19 Time Off: 16:22
Total Time: 363 min Total Volume: 1271 l
Result: <0.01

p.2 5/12

AIR SAMPLE DATA SHEET

AxiMax Resources, Inc.
Environmental Health and Safety Services
11417 Sunset Hills Road, Suite 225
Reston, VA 20190
PH: (571) 203 – 7766
FAX: (571) 203 – 7911

Technician: Same As p 1
Date:
Project #:
Client:
Site Location:
Activity:

Sample #: EK051204-06 Pump #:
Sample Location: (Corridor) by Rm. 4216
Air Flow Rate Pre: 3.5 Post: 3.5
4th Fl. Avg: "
AHU #1 Time On: 10:23 Time Off: 16:25
Total Time: 362 min Total Volume: 1267 l
Result: <0.01

Sample #: " -07 Pump #:
Sample Location: Rm. 2200 A
Air Flow Rate Pre: 3.5 Post: 3.5
2nd Fl. Avg: "
AHU # 4 Time On: 10:45 Time Off: 16:28
Total Time: 343 min. Total Volume: 1201 l
Result: <0.01

Sample #: " -08 Pump #:
Sample Location: Rm 2211 (Cafeteria) → Back Portion
Air Flow Rate Pre: 3.5 Post: 3.5
2nd Fl. Avg: "
AHU # 1 Time On: 10:47 Time Off: 16:32
Total Time: 345 min. Total Volume: 1208 l
Result: <0.01

Sample #: " -09 Pump #:
Sample Location: Rm 2020
2nd Fl. Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
AHU # 2 Time On: 10:50 Time Off: 16:36
Total Time: 346 min. Total Volume: 1211 l
Result: <0.01

Sample #: " -10 Pump #:
Sample Location: Rm 2008 (Gym)
2nd Fl. Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
AHU # 3 Time On: 10:55 Time Off: 16:38
Total Time: 343 min Total Volume: 1201 l
Result: <0.01

p.3 5/12

AIR SAMPLE DATA SHEET

AxiMax Resources, Inc.
Environmental Health and Safety Services
11417 Sunset Hills Road, Suite 225
Reston, VA 20190
PH: (571) 203 – 7766
FAX: (571) 203 – 7911

Technician: Same as p. 1
Date:
Project #:
Client:
Site Location:
Activity:

Ground Fl. AHU #2

Sample #: EK051204-11 Pump #:
Sample Location: Back Lobby
Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
Time On: 10:59 Time Off: 16:44
Total Time: 345 min. Total Volume: 1208 l
Result: <0.01

Ground Fl. AHU #3

Sample #: " - 12 Pump #:
Sample Location: Rm G-008
Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
Time On: 11:02 Time Off: 16:49
Total Time: 347 min Total Volume: 1215 l
Result: <0.01

Ground Fl. AHU # 1

Sample #: " - 13 Pump #:
Sample Location: Rm G-230 (Police Break Rm.)
Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
Time On: 11:05 Time Off: 16:56
Total Time: 351 min Total Volume: 1229 l
Result: <0.01

B-1 Fl. AHU #4

Sample #: " - 14 Pump #:
Sample Location: (Corridor) by Rm. B-212 - Womens Locker Rm.
Air Flow Rate Pre: 3.5 Post: 3.5
Avg: "
Time On: 11:12 Time Off: 16:59
Total Time: 347 min Total Volume: 1215 l
Result: <0.01

Sample #: Pump #:
Sample Location:
Air Flow Rate Pre: Post:
Avg:
Time On: Time Off:
Total Time: Total Volume:
Result:

NEOB

Client: GSA Safety Client ID: EK051004-01

NIOSH 7400 COUNT SHEET

10	20	30	40	50	60	70 (11.5)	80	90	100
						1		1	
1	1	½		½				½	
½		1	1		1	1	1		1
	½		1	1			½		½
					½				

<0.01
fiber/cc 16/100
fibers/field 1243l
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 16/100 → 20.38 (<0.00785) *385/vol×1000

f/cc = 0.0063 or <0.01

Analyst: E. Kievinko Date: 5-11-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051004-02

10	20	30	40	50	60	70 (8.5)	80	90	100
				1					½
1			1			½ 1			
				½				1	1
½	1		1		1		1		

<0.01
fiber/cc 12/100
fibers/field 1246l
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 12/100 → 1528

f/cc = 0.0047 or <0.01

Analyst: E. Kievinko Date: 5-11-04

Reportable Comments :

NEOB

Client: GSA Safety Client ID: EK051004-03

NIOSH 7400 COUNT SHEET

10	20	30	40	50	60	70	80	90	100

—
fiber/cc —
fibers/field Void
volume

$$f/cc = \frac{\text{fiber field} \times 385}{7.85 \times \text{volume}} = \text{N/A}$$ (Powered-out)

f/cc = N/A

Analyst: E. Krevinko Date: 5-11-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051004-04

10	20	30	40	50	60	70 (6.0)	80	90	100
					1			1	
	1/2		1/2						
1							1		1/2
		1		1		1			
									1/2

<0.01
fiber/cc 9/100
fibers/field 1239l
volume

$$f/cc = \frac{\text{fiber field} \times 385}{7.85 \times \text{volume}} = 9/100 \rightarrow 11.46$$

f/cc = 0.0035 or <0.01

Analyst: E. Krevinko Date: 5-11-04

Reportable Comments :

NEOB

Client: GSA Safety Client ID: EK051004-05

NIOSH 7400 COUNT SHEET

9.5

10	20	30	40	50	60	70	80	90	100
				1					
1	½	½			1	½		1	1
	1	1	1		1	1	1		½

<0.01
fiber/cc 13/100
fibers/field 1239l
volume

÷0.00785

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 13/100 → 16.56 × 385/vol × 1000

f/cc = 0.0051 or <0.01

Analyst: E. Krevinko Date: 5-11-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051004-06

7.5

10	20	30	40	50	60	70	80	90	100
					1			1	
1		½	1	½					
				1			½		1
	1	½				1			
							1		

<0.01
fiber/cc 11/100
fibers/field 1246l
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 11/100 → 14.01

f/cc = 0.0043 or <0.01

Analyst: E. Krevinko Date: 5-11-04

Reportable Comments :

NEOB

Client: GSA- Safety Client ID: EK051004-07

NIOSH 7400 COUNT SHEET

10		20		30		40		50		60		70 (10.5)		80		90		100	
1			1				1		1	1				1	1/2			1	
		1/2			1/2														1/2
	1							1				1				1			
				1							1/2						1		

<0.01
fiber/cc 15.5/100
fibers/field 1236l
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 15.5/100 → 19.74 ÷ 0.00785 × 385/vol × 1000

f/cc = 0.0061 or <0.01

Analyst: E. Krevinko Date: 5-11-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051004-08

10		20		30		40		50		60		70 (8.5)		80		90		100	
				1							1						1		
1						1/2			1					1/2					
			1																1
	1/2						1			1/2		1							
															1				

<0.01
fiber/cc 12/100
fibers/field 1232l
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 12/100 → 15.28

f/cc = 0.0047 or <0.01

Analyst: E. Krevinko Date: 5-11-04

Reportable Comments :

NEOB

Client: GSA Safety Client ID: EK051004-09

NIOSH 7400 COUNT SHEET

10	20	30	40	50	60	70	80	90	100

—
fiber/cc —
fibers/field Void
volume

Powered out

$$f/cc = \frac{\text{fiber field} \times 385}{7.85 \times \text{volume}} = \text{N/A}$$

f/cc = N/A

Analyst: E Krevinko Date: 5-11-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051004-10

10	20	30	40	50	60	70 (10.0)	80	90	100
½			1				1		
					1	½		1	1
1	1		1	1			½		
		½			½	1		1	½
			1						

<0.01
fiber/cc 15/100
fibers/field 1222 l
volume

$$f/cc = \frac{\text{fiber field} \times 385}{7.85 \times \text{volume}} = 15/100 \rightarrow 19.10$$

f/cc = 0.0060 or <0.01

Analyst: E Krevinko Date: 5-11-04

Reportable Comments :

NEOB

Client: GSA Safety Client ID: EK051004-11

NIOSH 7400 COUNT SHEET

10	20	30	40	50	60	70 (7.5)	80	90	100
								½	
	1		½	1		1			1
1							½		
		1			1			1	
½			½						

<0.01
fiber/cc 10.5/100
fibers/field 1218l
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 10.5/100 → 13.37 ÷0.00785 × 385/vol × 1000

f/cc = 0.0042 or <0.01

Analyst: E. Krevinko Date: 5-11-04

Reportable Comments :

NIOSH 7400 COUNT SHEET EK051004-12

10	20	30	40	50	60	70	80	90	100

<0.01
fiber/cc 0/100
fibers/field FB
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 0/100 Field Blank

f/cc = <0.01

Analyst: E. Krevinko Date: 5-11-04

Reportable Comments :

NEOB

Client: GSA : Safety Client ID: EK051104-01

NIOSH 7400 COUNT SHEET

4.0

10	20	30	40	50	60	70	80	90	100
		1/2			1/2			1/2	
1				1					
							1		1
	1/2					1/2			

<0.01
fiber/cc 6.5/100
fibers/field 120/ℓ
volume

÷0.00785

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 6.5/100 → 8.28 × 385/vol × 1000

f/cc = 0.0026 or <0.01

Analyst: E. Krevinko Date: 5-12-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051104-02

5.5

10	20	30	40	50	60	70	80	90	100
			1				1		
		1/2							1/2
1	1/2				1/2	1			
				1				1	

<0.01
fiber/cc 8/100
fibers/field 120/ℓ
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 8/100 → 10.19

f/cc = 0.0032 or <0.01

Analyst: E Krevinko Date: 5-12-04

Reportable Comments :

NEOB

Client: GSA - Safety Client ID: EK051104-03

NIOSH 7400 COUNT SHEET

10	20	30	40	50	60	70 (8.0)	80	90	100
			½						
					1	½	1	½ ½	
1	1								1
		1		1					
½			½			1			

<0.01
fiber/cc 11/100
fibers/field 120/l
volume

$$f/cc = \frac{\text{fiber field} \times 385}{7.85 \times \text{volume}} = \frac{11/100 \rightarrow 14.01 \times 385}{\text{vol} \times 1000}$$

f/cc = 0.0044 or <0.01

Analyst: E. Krevinko Date: 5-12-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051104-04

10	20	30	40	50	60	70 (8.5)	80	90	100
	1	½		½	1		1		½
1		1							
½			1	1		1	½	1	1

<0.01
fiber/cc 12.5/100
fibers/field 120/l
volume

$$f/cc = \frac{\text{fiber field} \times 385}{7.85 \times \text{volume}} = 12.5/100 \rightarrow 15.92$$

f/cc = 0.0051 or <0.01

Analyst: E. Krevinko Date: 5-12-04

Reportable Comments :

NEOB

Client: GSA Safety Client ID: EK051104-05

NIOSH 7400 COUNT SHEET

10	20	30	40	50	60	70 (50)	80	90	100
	½	1	½			1			½
1									
							½	1	
				1					

<0.01
fiber/cc 7/100
fibers/field 120/2
volume

$$f/cc = \frac{\text{fiber field} \times 385}{7.85 \times \text{volume}} = \frac{7/100 \rightarrow 8.91 \times 385/\text{vol} \times 1000}{\div 0.00785}$$

f/cc = 0.0028 or <0.01

Analyst: E. Krevinko Date: 5-12-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051104-06

10	20	30	40	50	60	70 (7.0)	80	90	100
								½	
1	½			1		½	1		
									1
		½	1		½			1	1	

<0.01
fiber/cc 9.5/100
fibers/field 120/2
volume

$$f/cc = \frac{\text{fiber field} \times 385}{7.85 \times \text{volume}} = 9.5/100 \rightarrow 12.10$$

f/cc = 0.0038 or <0.01

Analyst: E. Krevinko Date: 5-12-04

Reportable Comments :

NEOB

Client: GSA Safety Client ID: EK051104-07

NIOSH 7400 COUNT SHEET

10	20	30	40	50	60	70 (5.5)	80	90	100
		1			1	1/2			1/2
1	1/2							1	
				1			1		
			1/2						

<0.01
fiber/cc 8/100
fibers/field 120 l
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 8/100 → 10.19 × 385/001 ÷ 1000 (÷ 0.00785)

f/cc = 0.0032 or <0.01

Analyst: E. Krevinko Date: 5-12-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051104-08

10	20	30	40	50	60	70 (5.0)	80	90	100
			1/2				1		
	1/2	1						1/2	
1				1		1/2			
									1
					1/2				

<0.01
fiber/cc 7.5/100
fibers/field 120 l
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 7.5/100 → 9.55

f/cc = 0.0030 or <0.01

Analyst: E. Krevinko Date: 5-12-04

Reportable Comments :

NEOB

Client: GSA Safety Client ID: EK051104-09

NIOSH 7400 COUNT SHEET

60

10	20	30	40	50	60	70	80	90	100
							1	1/2	
	1/2	1	1/2						1/2
1						1			
					1/2				1
				1		1/2			

<0.01
fiber/cc 9/100
fibers/field 120 ℓ
volume

-0.00785

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 9/100 → 11.46 × 385/vol × 1000

f/cc = 0.0036 or <0.01

Analyst: E. Krevinko Date: 5-12-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051104-10

8.0

10	20	30	40	50	60	70	80	90	100
						1/2			
1/2 1	1/2		1/2	1			1		1
						1/2			
	1	1			1			1	
			1/2						

<0.01
fiber/cc 11/100
fibers/field 120 ℓ
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 11/100 → 14.01

f/cc = 0.0044 or <0.01

Analyst: E. Krevinko Date: 5-12-04

Reportable Comments :

NEOB

Client: GSA Safety Client ID: EK051104-11

NIOSH 7400 COUNT SHEET

9.5

10	20	30	40	50	60	70	80	90	100
½						½			1
1	1		½	1		1		½	1
		1			½				
							1		
	1		½		1			1	

<0.01
fiber/cc 14/100
fibers/field 120 l
volume

= 0.00785

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 14/100 → 17.83 × 385/vol × 1000

f/cc = 0.0057 or <0.01

Analyst: E. Krevinko Date: 5-12-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051104-12

5.5

10	20	30	40	50	60	70	80	90	100
					1	½			
1	½			1					1
		1					1	½	
			½						

<0.01
fiber/cc 8/100
fibers/field 120 l
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 8/100 → 10.19

f/cc = 0.0032 or <0.01

Analyst: E. Krevinko Date: 5-12-04

Reportable Comments :

NEOB

Client: GSA Safety Client ID: EK051104-13

NIOSH 7400 COUNT SHEET

9.0

10	20	30	40	50	60	70	80	90	100
½			1			½		½	1
	½			½	1			1	
1		1				½	1½		½
			½	1	½				
	1/2								

<0.01
fiber/cc 13.5/100
fibers/field 120/l
volume

÷ 0.00785

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 13.5/100 → 17.19 × 385/vol × 1000

f/cc = 0.0055 or <0.01

Analyst: E. Krevinko Date: 5-12-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051104-14

6.5

10	20	30	40	50	60	70	80	90	100
½			½					½	1
	1			1			1		
	½		½			½			
		1			1			1	

<0.01
fiber/cc 10/100
fibers/field 120/l
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 10/100 → 12.73

f/cc = 0.0040 or <0.01

Analyst: E. Krevinko Date: 5-12-04

Reportable Comments :

NEOB

Client: GSA Safety Client ID: EK051104-15

NIOSH 7400 COUNT SHEET

11.5

10	20	30	40	50	60	70	80	90	100
½		1		½	1		½		
			½ ½	1			1	½	1
1					½	½			1
	½	1		1½		1	½	1	
½									

<0.01
fiber/cc 17/100
fibers/field 120/l
volume

÷ 0.00785

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 17/100 → 21.65 ¥385/vol ¥1000

f/cc = 0.0069 or <0.01

Analyst: E. Krevinko Date: 5-12-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051104-16

8.5

10	20	30	40	50	60	70	80	90	100
			1			½			
½ 1		½		½	1		1		1
	1								½
		½		1		1		1	

<0.01
fiber/cc 12/100
fibers/field 120/l
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 12/100 → 15.28

f/cc = 0.0049 or <0.01

Analyst: E. Krevinko Date: 5-12-04

Reportable Comments :

NEOB

Client: GSA Safety Client ID: EK051104-17

NIOSH 7400 COUNT SHEET

11.5

10	20	30	40	50	60	70	80	90	100
½							½		
	1	½	1		1	½	1		1½
1	½				½			1	½
		1	1	½	1	1		½	
½									

<0.01
fiber/cc 16.5/100
fibers/field 1204 l
volume

÷ 0.00785

$$f/cc = \frac{\text{fiber}}{\text{field} \times 385} \div 7.85 \times \text{volume} = 16.5/100 \rightarrow 21.01 \div 385/\text{vol} \div 1000$$

f/cc = 0.0067 or <0.01

Analyst: E. Kievinko Date: 5-12-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051104-18

12.0

10	20	30	40	50	60	70	80	90	100
½									

<0.01
fiber/cc 18/100
fibers/field 1208 l
volume

$$f/cc = \frac{\text{fiber}}{\text{field} \times 385} \div 7.85 \times \text{volume} = 18/100 \rightarrow 22.92$$

f/cc = 0.0073 or <0.01

Analyst: E. Kievinko Date: 5-12-04

Reportable Comments :

NEOB

Client: GSA: Safety Client ID: EK051204-01

NIOSH 7400 COUNT SHEET

6.5

10	20	30	40	50	60	70	80	90	100
	½							1	½
1				½		½			
	½		1						1
					1		½		
		1							

<0.01
fiber/cc 9/100
fibers/field 1267l
volume

= 0.00785

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 9/100 → 11.46 * 385/vol *1000

f/cc = 0.0034 or <0.01

Analyst: E. Krevinko Date: 5/13/04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051204-02

8.0

10	20	30	40	50	60	70	80	90	100
	½				½		1		1
1			½			1 ½			½
	½							½	
½		1	½				½		½
				1					

<0.01
fiber/cc 11.5/100
fibers/field 1271l
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 11.5/100 → 14.64

f/cc = 0.0044 or <0.01

Analyst: E. Krevinko Date: 5/13/04

Reportable Comments :

NEOB

Client: GSA Safety Client ID: EK051204-03

NIOSH 7400 COUNT SHEET

10	20	30	40	50	60	70	80	90	100

—
fiber/cc
—
fibers/field
Void
volume

(Turned-off)

$$f/cc = \frac{\text{fiber field} \times 385}{7.85 \times \text{volume}} = N/A$$

f/cc = N/A

Analyst: E. Krevinko Date: 5-13-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051204-04

10	20	30	40	50	60	70	80	90	100
		1				½			
				½				1	
1	½								½
			1		½				

<0.01
fiber/cc
6.5/100
fibers/field
1260 l
volume

$$f/cc = \frac{\text{fiber field} \times 385}{7.85 \times \text{volume}} = 6.5/100 \rightarrow 8.28$$

f/cc = 0.0025 or <0.01

Analyst: E. Krevinko Date: 5-13-04

Reportable Comments :

NEOB

Client: GSA - Safety Client ID: EK051204 05

NIOSH 7400 COUNT SHEET

10	20	30	40	50	60	70	80	90	100
			1				1/2		
1									
	1/2	1/2			1	1			1
				1/2				1	

<0.01
fiber/cc 8/100
fibers/field 1071 l
volume

$$f/cc = \frac{\text{fiber field} \times 385}{7.85 \times \text{volume}} = 8/100 \rightarrow 10.19 * 385/vol * 1000$$

f/cc = 0.00308 or <0.01

Analyst: E. Krevinko Date: 5-13-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051204-06

10	20	30	40	50	60	70	80	90	100
							1/2		
1		1/2		1/2					1/2
	1/2				1				
			1			1/2		1	

<0.01
fiber/cc 7/100
fibers/field 1267 l
volume

$$f/cc = \frac{\text{fiber field} \times 385}{7.85 \times \text{volume}} = 7/100 \rightarrow 8.91$$

f/cc = 0.0027 or <0.01

Analyst: E. Krevinko Date: 5-13-04

Reportable Comments :

NEOB

Client: GSA Safety Client ID: EK051204-07

NIOSH 7400 COUNT SHEET

10		20		30		40		50		60		70		80		90		100	
							½					½				½			
		½												1				1	
½									1										
	1				1						1						½		

<0.01
fiber/cc 9/100
fibers/field 120 l
volume

= 0.00785

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 9/100 → 11.46 * 385/vol * 1000

f/cc = 0.0036 or <0.01

Analyst: E. Krevinko Date: 5-13-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051204-08

9.0

10		20		30		40		50		60		70		80		90		100	
			½						½		1				½				
½							1											½	
					½								½	½					
	1	½		1					1			1				1			
																			½

<0.01
fiber/cc 12/100
fibers/field 120 8 l
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 12/100 → 15.28

f/cc = 0.0048 or <0.01

Analyst: E. Krevinko Date: 5-13-04

Reportable Comments :

NEOB

Client: GSA Safety Client ID: EK051204-09

NIOSH 7400 COUNT SHEET

10		20		30		40		50		60		70		80		90		100	
									1				1				1		
1			1/2			1/2													1/2
	1/2						1			1/2	1			1		1/2			
		1/2		1								1/2						1	
															1				

<2.01
fiber/cc
14/100
fibers/field
1211 l
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 14/100 → 17.83 * 385/vol*1000

f/cc = 0.0056 or <0.01

Analyst: E. Krevinko Date: 5-13-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051204-10

10		20		30		40		50		60		70		80		90		100	
				1/2					1				1/2						
		1/2													1			1/2	
1							1				1								
																1			
					1/2														

<0.01
fiber/cc
8.5/100
fibers/field
1201 l
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 8.5/100 → 10.82

f/cc = 0.0034 or <0.01

Analyst: E. Krevinko Date: 5-13-04

Reportable Comments :

NEOB

Client: GSA Safety Client ID: EK051204-11

NIOSH 7400 COUNT SHEET

10	20	30	40	50	60	70	80	90	100
	½				1				
1			1				1		1
½				1		½			
		1						1	

<0.01
fiber/cc 9.5/100
fibers/field 1208 ℓ
volume

÷0.00785

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 9.5/100 → 1210 × 385/vol ÷ 1000

f/cc = 0.0038 or <0.01

Analyst: E. Kievinko Date: 5-13-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051204-12

10	20	30	40	50	60	70	80	90	100
			1		1		1		½
½									
								½	
	1	½		½					
						½			

<0.01
fiber/cc 7/100
fibers/field 1215 ℓ
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 7/100 → 8.91

f/cc = 0.0028 or <0.01

Analyst: E. Kievinko Date: 5-13-04

Reportable Comments :

NFOB

Client: GSA Safety Client ID: EK051204-13

NIOSH 7400 COUNT SHEET

9.0

10		20		30		40		50		60		70		80		90		100	
	½		½																½
1					1				1				1	½			½		
						1	½				½								
			1												1	½		1	
				½						½									

<0.01
fiber/cc 13/100
fibers/field 1229ℓ
volume

÷ 0.00785

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 13/100 → 16.56 × 385/vol × 1000

f/cc = 0.0051 or <0.01

Analyst: E. Krevinko Date: 5-13-04

Reportable Comments :

NIOSH 7400 COUNT SHEET

EK051204-14

8.0

10		20		30		40		50		60		70		80		90		100	
				½					1							1			
½					1						½	½							1
		1					1							1					
										1							½		
	½												½						

<0.01
fiber/cc 11.5/100
fibers/field 1215ℓ
volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = 11.5/100 → 14.64

f/cc = 0.0046 or <0.01

Analyst: E. Krevinko Date: 5-13-04

Reportable Comments :

TS

DC0105ZZ
T. Slcett/WPYG
4-21-05

MasiMax
Resources, Inc.

RECEIVED
GSA/NCR

2005 APR 21 A 7:16

SAFETY, ENVIRONMENT &
FIRE PROTECTION BR. (WPYG)

April 16, 2005

Cathy Figuracion
General Services Administration (GSA)
Safety, Environment, & Fire Protection Branch
7th & D Streets SW, Room 2080
Washington, D.C. 20407

Subject: Contract Number: GS11P01MQD0056
Delivery Order Number: P1105DC0131
ACT Number: PJ5N02079
Final Asbestos Bulk Sampling Report, Exterior Balcony Soffit Material, New Executive Office Building

Dear Ms. Figuracion:

MasiMax Resources, Inc., received a delivery order from GSA's NCR, Service Delivery Support, Safety, Environment, and Fire Protection Branch to conduct bulk sampling of suspect asbestos-containing building materials in the New Executive Office Building located at 725 17th Street NW, Washington, DC. The scope of work was limited to the exterior balcony soffits.

MasiMax Environmental Health Specialist, Bjarne Smith, conducted the survey on April 6, 2005. Mr. Ed Babineau provided access to the building and directed MasiMax to the areas of concern. In accordance with your request, MasiMax collected bulk samples of the balcony soffit building material at locations specified by Mr. Babineau.

Asbestos Bulk Sampling Results

MasiMax collected one bulk sample of the suspect building material at each of the three locations specified by Mr. Babineau. All bulk samples collected were submitted to RJ Lee Group, Inc. in Manassas, Virginia, for analysis by EPA Method 600/R-93/116, *Polarized Light Microscopy/Dispersion Staining (PLM), Method for the Determination of Asbestos in Bulk Building Materials.* RJ Lee Group participates in the National Voluntary Laboratory Accreditation Program (NVLAP) and is a licensed Virginia asbestos laboratory. Bulk sampling results are summarized in Table One. Laboratory reports are included as Attachment A.

MasiMax Environmental Health and Safety Services
11417 Sunset Hills Road, Suite 225
Reston, VA 20190
Phone: (571) 203-7766 Fax: (571) 203-7911

Table One – Bulk Sampling Results
New Executive Office Building
Collected April 6, 2005

Sample #	Sample Description & Location	Result
BS040605-01	Underside of Exterior Balcony, H Street side, by Guard Shack	No Asbestos Detected
BS040605-02	Underside of Exterior Balcony, Corner of H Street and 17th Street, NW	No Asbestos Detected
BS040605-03	Underside of Exterior Balcony, North East Corner of the Plaza	No Asbestos Detected

Conclusions

There was no asbestos detected in any of the three exterior balcony soffit bulk samples collected.

If you have any questions or require additional assistance, please do not hesitate to call me at (571) 203-7766, extension 115.

Sincerely,

MASIMAX RESOURCES, INC.

Christopher P. Williams, CIH
Project Manager, Environmental Health and Safety Services

ATTACHMENT A

LABORATORY REPORTS

RJ Lee Group, Inc.

NVLAP Accreditation No. 101208-3, AIHA Accreditation No. 1005111

10503 Battleview Parkway · Manassas, VA 20109
Voice 703 / 368-7880 · Fax 703 / 368-7761

Apr. 7. 2005 3:36PM No. 3583 P. 1

LABORATORY REPORT

MasiMax Resources, Inc.
11417 Sunset Hills Road, Suite 225
Reston, Virginia 20190
Attention: Bjarne Smith
Telephone: 571-203-7766

Report Date: April 7, 2005
Sample Receipt Date: April 6, 2005
Sample Analysis Date: April 6, 2005
RJ Lee Group Job No.: AOW-504038
Client Job Number: 139-300
Authorization / P.O. No.: Bjarne Smith

Analysis: Asbestos in Bulk Samples
Method: Polarized Light Microscopy / Dispersion Staining (PLM), Method for the Determination of Asbestos in Bulk Building Materials. EPA-600/R-93/116, July 1993.

Sample Identification		Physical Description of Sample; Additional Comments	Homo-geneous (yes/no)	Number of Layers	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
RJ Lee Grp	Client				Chrysotile (area %)	Amphibole (area %)			
1056049	BS040605 01	beige plaster	Yes	1	ND1	ND1	2 CELL	98	C, Q
1056050	BS040605 02	beige plaster, white paint	Yes	1	ND1	ND1	3 CELL	97	C, Q
1056051	BS040605 03	white plaster beige plaster	No	2	ND1 ND1	ND1 ND1	2 CELL 3 CELL	98 97	C C, Q

A = Amosite
AC = Actinolite
AN = Anthophyllite
CR = Crocidolite
TR = Tremolite
ND1 = None Detected
Trace = Less Than 1%

CELL = Cellulose
MW = Mineral Wool
FBG = Fiberglass
SYN = Synthetic
WO = Wollastonite
NTR = Non-Asbestiform TR
NAC = Non-Asbestiform AC
FT = Fibrous Talc
AH = Animal Hair

Q = Quartz
C = Carbonates
V = Vermiculite
G = Gypsum
M = Mica
T = Tar
P = Perlite
O = Organic
B = Binder
OP = Opaques
D = Diatoms
MP = Misc Parts.

A. Mark Antonelli III
Laboratory Analyst

Monica M. McCloy
Monica M. McCloy
Laboratory Manager

Monroeville, PA · San Leandro, CA · Washington, DC

GSA National Capital Region - Public Buildings Service
Safety, Environment & Fire Protection Branch (WPYG)

July 24, 2007

MEMORANDUM FOR WESLEY BRUBAKER
WHITE HOUSE SERVICE CENTER (WPW)

FROM: TIMOTHY SLEETH
SAFETY, ENVIRONMENT AND
FIRE PROTECTION BRANCH (WPYG)

SUBJECT: RESULTS OF FY2006 ANNUAL FIBER-IN-AIR SAMPLING
NEW EXECUTIVE OFFICE BUILDING
725 17TH STREET, NW
WASHINGTON, DC 20405

This memorandum is being sent to transmit the attached results of fiber-in-air (FIA) sampling conducted on November 13, 2006, and May 16 through 17, 2007, at the New Executive Office Building, located at 725 17th Street, NW Washington, DC. The results represent ambient fiber levels present throughout the building on the day(s) of sampling.

The purpose of the FIA survey is to provide GSA-owned and delegated facility managers and occupants with useful supplemental information for buildings with asbestos-containing materials (ACM) present. The U.S. EPA recommends in it's 1990 guide, *Managing Asbestos In Place, ("Green Book")*, that supplemental air monitoring be conducted as part of a comprehensive Asbestos Operations and Maintenance (O&M) Program which includes periodic surveillance to inspect and assess the current condition of any ACM's in the facility.

A total of twenty-six (26) air samples were collected and analyzed by Phase Contrast Microscopy (PCM), using the NIOSH Method 7400. The results of 25 of the 26 samples were less than 0.01 fibers per cubic centimeter of air (<0.01 f/cc), which is well below the fiber level recommended by the U.S. EPA for office environments. The one sample had a fiber concentration greater than 0.01 that was 0.033 f/cc, and was collected from the First Floor, Northwest Corridor. This one sample was upgraded to Transmission Electron Microscopy (TEM) analysis with a fiber concentration of 40 structures per square millimeter (40 S/mm^2). This is below the EPA recommended clearance level of 70 S/mm^2, however, the detection of two chrysotile structures on the sample may warrant further investigation to determine if a source of asbestos fibers is present at that particular location.

Should you have questions concerning this matter, please contact me on (202) 708-5257.

Attachments

MasiMax
Resources, Inc.

July 10, 2007

Tim Sleeth
General Service Administration (GSA)
Safety, Environmental & Fire Protection Branch
7th & D Streets, S.W. Room 2080
Washington, D.C. 20407

Subject: Contract Number: GS11P01MQD0056
Delivery Order Number: GSP1106DC0756
ACT Number: PJ6NA3333
Annual Fiber-in-Air Sampling at the New Executive Office Building Located in Washington, DC

Dear Mr. Sleeth:

MasiMax Resources, Inc. received a delivery order from GSA, NCR, Service Delivery Support Safety, Environmental and Fire Protection Branch to conduct the Annual Fiber-In-Air (FIA) Survey at the New Executive Office Building (NEOB) located at 725 17th Street, NW in Washington, DC.

MasiMax's Environmental Health Specialist, Bjarne Smith, collected eleven samples on November 13, 2006 but was not able to perform subsequent air sampling at that time due to NEOB suspending contractor's access to the building. MasiMax returned and collected fifteen samples each on May 16th and May 17th, 2007 but was unable to gain access to the building on subsequent days to complete the work. MasiMax was asked by GSA ordering officer, Tim Sleeth, on July 6, 2007 to close out the work order and not complete the remaining work.

MasiMax collected the air samples from offices, copy rooms, corridors, mechanical shops and the cafeteria. The samples were collected during routine work hours on November 13, 2006. However, on May 16th and May 17th, 2007 the samples were collected after working hours at the request of GSA point of contact Wes Brubaker as not to disturb the building occupants with noise from the sampling pumps. The samples were delivered to RJ Lee Group, Incorporated, Manassas, Virginia and were analyzed in accordance with National Institute for Occupational Safety and Health (NIOSH) Analytical Method 7400, Asbestos Fibers by Phase Contrast Microscopy (PCM). RJ Lee Group participates in the National Voluntary Laboratory Accreditation Program (NVLAP), is accredited by the American Industrial Hygiene Association (AIHA) and is a licensed Virginia asbestos laboratory.

With the exception of one sample, the laboratory reported that all samples contained less than 0.01 fibers per cubic centimeter of air (<0.01 f/cc). The sample that had a fiber concentration greater than 0.01 had a fiber concentration of 0.033 f/cc and was collected from the Northwest corridor on the first floor. The laboratory conducted further analysis on this sample using transmission electron microscopy (TEM) and the lab reported that the sample result contained two (2) chrysotile asbestos structures. Sample results are provided in Table 1 in Attachment A to this letter. Laboratory reports from RJ Lee Group and field blank analysis sheets are provided in Attachment B.

If you should have any questions or require any further information, please call me at (571) 203-7766, extension 107.

Sincerely,

MASIMAX RESOURCES, INC.

Mark McGowan, CIH, CSP
Vice President, Environmental Health and Safety Services

Bjarne Smith

Bjarne Smith
Environmental Health Specialist

ATTACHMENT A

SUMMARY TABLE OF RESULTS

Table 1 - Fibers In Air Sampling Results for
New Executive Office Building, 725 17th Street NW, Washington DC
Collected 11/13/06, 05/16/07, 05/17/07 & 10/11/06

Sample Date	Sample Number	Location	Floor	Average Flow Rate	Total Time (minutes)	Total Volume (Liters)	PCM Results (f/cc)	TEM Results (Asbestos Structures Detected)
11/13/2006	BS111306F-01	Room 2020 NE	2nd	3.5	434	1519	<0.002	
11/13/2006	BS111306F-02	Room 2020 NW	2nd	3.4	432	1468.8	<0.002	
11/13/2006	BS111306F-03	Exercise Room	2nd	3.4	432	1468.8	<0.002	
11/13/2006	BS111306F-04	Cafeteria	2nd	3.4	432	1468.8	<0.002	
11/13/2006	BS111306F-05	East Lobby	1st	N/A	VOID	N/A	N/A	
11/13/2006	BS111306F-06	Security Conference Room	1st	3.4	415	1411	<0.002	
11/13/2006	BS111306F-07	NW corridor	1st	3.5	410	1435	0.033	2 Chrysotile
11/13/2006	BS111306F-08	SB 236 Computer Room	B2	N/A	VOID	N/A	N/A	
11/13/2006	BS111306F-09	Boiler Room	B2	3.4	403	1370.2	0.003	
11/13/2006	BS111306F-10	Locker Room	B2	N/A	VOID	N/A	N/A	
11/13/2006	BS111306F-11	Plumbing Shop	B2	3.4	398	1353.2	<0.002	
11/13/2006	BS111306F-12	Carpenters Shop	B1	N/A	VOID	N/A	N/A	
11/13/2006	BS111306F-13	Corridor by B208	B1	3.4	395	1343	0.005	
11/13/2006	BS111306F-14	Room B208	B1	3.4	397	1349.8	0.002	
11/13/2006	BS111306F-15	Electrical Vault	B1	3.4	393	1336.2	0.003	
5/16/2007	BS051607-01	Room 10116	10th	3.0	463	1387	<0.002	
5/16/2007	BS051607-02	Room 10222	10th	3.0	458	1374	<0.002	
5/16/2007	BS051607-03	Room 10236	10th	3.0	456	1368	<0.002	
5/16/2007	BS051607-04	Room 10021 - Copy room	10th	3.0	457	1371	<0.002	
5/16/2007	BS051607-05	Hallway by Room 10001	10th	3.0	452	1356	<0.002	
5/16/2007	BS051607-06	Hallway by Room 9116	9th	3.0	446	1338	<0.002	
5/16/2007	BS051607-07	Hallway by Room 9208	9th	N/A	VOID	N/A	N/A	
5/16/2007	BS051607-08	Hallway by Room 9224	9th	3.1	440	1320	<0.002	
5/16/2007	BS051607-09	Hallway by Room 9235	9th	N/A	VOID	N/A	N/A	
5/16/2007	BS051607-10	Room 9016 - Copy room	9th	3.2	439	1317	<0.002	
5/16/2007	BS051607-11	Room 8208	8th	N/A	VOID	N/A	N/A	
5/16/2007	BS051607-12	Room 8222	8th	3.2	434	1388.8	<0.002	
5/16/2007	BS051607-13	Room 8225	8th	3.2	432	1296	<0.002	
5/16/2007	BS051607-14	Room 8104	8th	N/A	VOID	N/A	N/A	
5/16/2007	BS051607-15	Room 8013	8th	3.2	426	1363.2	<0.002	
5/21/2007	BS052107-16	Hallway by Room 7205	7th	3.1	443	1373.3	<0.002	
5/21/2007	BS052107-17	Room 7211 - Copy Room	7th	3.1	441	1367.1	<0.002	
5/21/2007	BS052107-18	Room 7228	7th	3.1	440	1364	<0.002	
5/21/2007	BS052107-19	Room 7001	7th	3.1	437	1354.7	<0.002	
5/21/2007	BS052107-20	Room 7020	7th	3.1	435	1348.5	<0.002	
5/21/2007	BS052107-21	Room 6116	6th	3.1	433	1342.3	<0.002	
5/21/2007	BS052107-22	Room 6208	6th	3.0	432	1140	<0.002	
5/21/2007	BS052107-23	Room 6212	6th	3.1	431	1336.1	<0.002	
5/21/2007	BS052107-24	Room 6225	6th	3.0	428	1284	<0.002	
5/21/2007	BS052107-25	Room 6011	6th	3.1	428	1236.9	<0.002	
5/21/2007	BS052107-26	Hallway by Room 5205	5th	3.1	425	1109.8	<0.002	
5/21/2007	BS052107-27	Hallway by Room 5213	5th	3.1	425	1317.5	<0.002	
5/21/2007	BS052107-28	Hallway by Room 5231	5th	3.1	424	1314.4	<0.002	
5/21/2007	BS052107-29	Hallway by Room 5008	5th	3.1	404	1252.4	<0.002	
5/21/2007	BS052107-30	Hallway by Room 5002	5th	3.1	423	1311.3	<0.002	
N/A	BS111306-Blank 1	Field Blank	Field Blank	N/A	N/A	N/A	See Attached Sheets	N/A
N/A	BS111306-Blank 2	Field Blank	Field Blank	N/A	N/A	N/A		
N/A	BS051607-Blank 1	Field Blank	Field Blank	N/A	N/A	N/A		
N/A	BS051607-Blank 2	Field Blank	Field Blank	N/A	N/A	N/A		
N/A	BS052107-Blank 1	Field Blank	Field Blank	N/A	N/A	N/A		
N/A	BS052107-Blank 2	Field Blank	Field Blank	N/A	N/A	N/A		

ATTACHMENT B

LABORATORY RESULTS AND FIELD BLANK WORKSHEETS

RJ Lee Group, Inc.

AIHA Accreditation No. 100511

10503 Battleview Parkway · Manassas, VA 20109
Voice 703 / 368-7880 · Fax 703 / 368-7761

received 12/4/06

LABORATORY REPORT

MasiMax Resources, Inc.
11417 Sunset Hills Road, Suite 225
Reston, Virginia 20190
Attention: Bjarne Smith
Telephone: 571-203-7766

Report Date: November 28, 2006
Sample Receipt Date: November 21, 2006
Sample Analysis Date: November 27, 2006
RJ Lee Group Job No.: AOW-611126
Client Job No.: 139-419
Authorization/P.O. No.: Bjarne Smith

Analysis: Fibers (greater than or equal to 5 um long) on Mixed Cellulose Ester Filters
Method: Phase Contrast Microscopy (PCM), NIOSH 7400 Method (Issue 2, 08/15/94) & OSHA/EPA Reference Method (29 CFR 1910.1001, App. A)

Filter Diameter: 25 mm Blank Correction: N/A f/mm² Field Area: 0.00785 mm²

Sample Identification		Sample Volume	Fields	Total	Uncorrected Fiber Density	Airborne Fiber Concentration	
Client	RJ Lee Group	(liters)	Counted	Fibers	(fibers/mm²)	(fibers/cm³)	Sample Description / Notes
BS 111306F-01	1093901	1519	100	3.5	4.5	< 0.002	11/13/06: Room 2020 NE 2nd Floor
BS 111306F-02	1093902	1468.8	100	1.5	1.9	< 0.002	11/13/06: Room 2020 NW 2nd Floor
BS 111306F-03	1093903	1468.8	100	5	6.4	< 0.002	11/13/06: Fitness Center 2nd Floor
BS 111306F-04	1093904	1468.8	100	0.5	0.6	< 0.002	11/13/06: Cafeteria 2nd Floor
BS 111306F-06	1093905	1411	100	4	5.1	< 0.002	11/13/06: Security Conference Rm 1st Fl
BS 111306F-07	1093906	1435	100	95.5	121.7	0.033	11/13/06: NW Corridor 1st Floor
BS 111306F-09	1093907	1370.2	100	7	8.9	0.003	11/13/06: Boiler Room B2
BS 111306F-11	1093908	1353.2	100	5	6.4	< 0.002	11/13/06: Plumbing Shop B2
BS 111306F-13	1093909	1343	100	14	17.8	0.005	11/13/06: By B208 in Corridor B1
BS 111306F-14	1093910	1349.8	100	6	7.6	0.002	11/13/06: Room B208 B1

Monica M. McCloy
Monica M. McCloy
Laboratory Manager

Lena Bulgakova
Laboratory Analyst

Notes:
1. Air volumes provided by the client were used to calculate airborne concentrations.
2. PCM coefficients of variance range from approximately 0.4 at low fiber density to 0.1 at high fiber density.
3. These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.
4. "<" indicates the fiber density is below the detection limit. A fiber density of 7 f/mm2 is used to calculate the detection limit.
5. This test report relates only to the items tested and is not valid without the signature of an approved AIHA signatory.
6. Blank samples were not submitted by the client with this set of samples.

Monroeville, PA · San Leandro, CA · Washington, DC

RJ Lee Group, Inc.

AIHA Accreditation No. 100511

10503 Battleview Parkway · Manassas, VA 20109
Voice 703 / 368-7880 · Fax 703 / 368-7761

LABORATORY REPORT

MasiMax Resources, Inc.
11417 Sunset Hills Road, Suite 225
Reston, Virginia 20190
Attention: Bjarne Smith
Telephone: 571-203-7766

Report Date:	November 28, 2006
Sample Receipt Date:	November 21, 2006
Sample Analysis Date:	November 27, 2006
RJ Lee Group Job No.:	AOW-611126
Client Job No.:	139-419
Authorization/P.O. No.:	Bjarne Smith

Analysis: Fibers (greater than or equal to 5 um long) on Mixed Cellulose Ester Filters

Method: Phase Contrast Microscopy (PCM), NIOSH 7400 Method (Issue 2, 08/15/94) & OSHA/EPA Reference Method (29 CFR 1910.1001, App. A)

Filter Diameter: 25 mm Blank Correction: N/A f/mm² Field Area: 0.00785 mm²

Sample Identification		Sample Volume	Fields	Total	Uncorrected Fiber Density	Airborne Fiber Concentration	
Client	RJ Lee Group	(liters)	Counted	Fibers	(fibers/mm²)	(fibers/cm³)	Sample Description / Notes
BS 111306F-15	1093911	1336.2	100	7.5	9.6	0.003	11/13/06: By Electric Vault B1

Lena Bulgakova
Laboratory Analyst

Monica M. McCloy
Monica M. McCloy
Laboratory Manager

Notes:
1. Air volumes provided by the client were used to calculate airborne concentrations.
2. PCM coefficients of variance range from approximately 0.4 at low fiber density to 0.1 at high fiber density.
3. These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.
4. "<" indicates the fiber density is below the detection limit. A fiber density of 7 f/mm2 is used to calculate the detection limit.
5. This test report relates only to the items tested and is not valid without the signature of an approved AIHA signatory.
6. Blank samples were not submitted by the client with this set of samples.

Monroeville, PA · San Leandro, CA · Washington, DC

RJ Lee Group, Inc.

AIHA Accreditation No. 100511

10503 Battleview Parkway · Manassas, VA 20109
Voice 703 / 368-7880 · Fax 703 / 368-7761

LABORATORY REPORT

MasiMax Resources, Inc.
11417 Sunset Hills Road, Suite 225
Reston, Virginia 20190
Attention: Bjarne Smith
Telephone: 571-203-7766

received 6/22/07

Report Date: June 14, 2007
Sample Receipt Date: June 08, 2007
Sample Analysis Date: June 12, 2007
RJ Lee Group Job No.: AOW-706056
Client Job No.: 139-419
Authorization/P.O. No.: Bjarne Smith

Analysis: Fibers (greater than or equal to 5 um long) on Mixed Cellulose Ester Filters
Method: Phase Contrast Microscopy (PCM), NIOSH 7400 Method (Issue 2, 08/15/94) & OSHA/EPA Reference Method (29 CFR 1910.1001, App. A)

Filter Diameter: 25 mm Blank Correction: N/A f/mm² Field Area: 0.00785 mm²

Sample Identification		Sample Volume (liters)	Fields Counted	Total Fibers	Uncorrected Fiber Density (fibers/mm²)	Airborne Fiber Concentration (fibers/cm³)	Sample Description / Notes
Client	RJ Lee Group						
BS051607-01	1103153	1389	100	0	0.0	< 0.002	05/16/07: 10116
BS051607-02	1103154	1374	100	0	0.0	< 0.002	05/16/07: 10222
BS051607-03	1103155	1368	100	0	0.0	< 0.002	05/16/07: 10236
BS051607-04	1103156	1371	100	0	0.0	< 0.002	05/16/07: 10021 Copy Rm
BS051607-05	1103157	1356	100	0	0.0	< 0.002	05/16/07: Hall by 10001
BS051607-06	1103158	1338	100	0	0.0	< 0.002	05/16/07: Hall by 9116
BS051607-07	1103159	1332	0	Not Analyzed - Sample Voided by Client			05/16/07: Hall by 9208
BS051607-08	1103160	1320	100	1	1.3	< 0.002	05/16/07: Hall by 9224
BS051607-09	1103161	1323	0	Not Analyzed - Sample Voided by Client			05/16/07: Hall by 9235
BS051607-10	1103162	1094.4	100	0	0.0	< 0.002	05/16/07: Copy Rm 9016

Monica M. McCloy
Laboratory Analyst

Monica M. McCloy
Laboratory Manager

Notes:
1. Air volumes provided by the client were used to calculate airborne concentrations.
2. PCM coefficients of variance range from approximately 0.4 at low fiber density to 0.1 at high fiber density.
3. These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.
4. "<" indicates the fiber density is below the detection limit. A fiber density of 7 f/mm2 is used to calculate the detection limit.
5. This test report relates only to the items tested and is not valid without the signature of an approved AIHA signatory.
6. Blank samples were not submitted by the client with this set of samples.

Monroeville, PA · San Leandro, CA · Washington, DC

RJ Lee Group, Inc.

AIHA Accreditation No. 100511

10503 Battleview Parkway · Manassas, VA 20109
Voice 703 / 368-7880 · Fax 703 / 368-7761

LABORATORY REPORT

MasiMax Resources, Inc.
11417 Sunset Hills Road, Suite 225
Reston, Virginia 20190
Attention: Bjarne Smith
Telephone: 571-203-7766

Report Date: June 14, 2007
Sample Receipt Date: June 08, 2007
Sample Analysis Date: June 12, 2007
RJ Lee Group Job No.: AOW-706056
Client Job No.: 139-419
Authorization/P.O. No.: Bjarne Smith

Analysis: Fibers (greater than or equal to 5 um long) on Mixed Cellulose Ester Filters
Method: Phase Contrast Microscopy (PCM), NIOSH 7400 Method (Issue 2, 08/15/94) & OSHA/EPA Reference Method (29 CFR 1910.1001, App. A)

Filter Diameter: 25 mm Blank Correction: N/A f/mm² Field Area: 0.00785 mm²

Sample Identification		Sample Volume	Fields	Total	Uncorrected Fiber Density	Airborne Fiber Concentration	
Client	RJ Lee Group	(liters)	Counted	Fibers	(fibers/mm²)	(fibers/cm³)	Sample Description / Notes
BS051607-11	1103163	1395.2	0	Not Analyzed - Sample Voided by Client			05/16/07: 8208
BS051607-12	1103164	1388.8	100	0	0.0	< 0.002	05/16/07: 8222
BS051607-13	1103165	1296	100	0	0.0	< 0.002	05/16/07: 8225
BS051607-14	1103166	1287	0	Not Analyzed - Sample Voided by Client			05/16/07: 8104
BS051607-15	1103167	1363.2	100	0	0.0	< 0.002	05/16/07: 8013

Monica M. McCloy
Laboratory Analyst

Monica M. McCloy
Monica M. McCloy
Laboratory Manager

Notes:
1. Air volumes provided by the client were used to calculate airborne concentrations.
2. PCM coefficients of variance range from approximately 0.4 at low fiber density to 0.1 at high fiber density.
3. These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.
4. "<" indicates the fiber density is below the detection limit. A fiber density of 7 f/mm2 is used to calculate the detection limit.
5. This test report relates only to the items tested and is not valid without the signature of an approved AIHA signatory.
6. Blank samples were not submitted by the client with this set of samples.

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RJ Lee Group, Inc.

AIHA Accreditation No. 100511

10503 Battleview Parkway · Manassas, VA 20109
Voice 703 / 368-7880 · Fax 703 / 368-7761

LABORATORY REPORT

received 6/22/07

MasiMax Resources, Inc.
11417 Sunset Hills Road, Suite 225
Reston, Virginia 20190
Attention: Bjarne Smith
Telephone: 571-203-7766

Report Date:	June 14, 2007
Sample Receipt Date:	June 08, 2007
Sample Analysis Date:	June 12, 2007
RJ Lee Group Job No.:	AOW-706055
Client Job No.:	139-419
Authorization/P.O. No.:	Bjarne Smith

Analysis: Fibers (greater than or equal to 5 um long) on Mixed Cellulose Ester Filters

Method: Phase Contrast Microscopy (PCM), NIOSH 7400 Method (Issue 2, 08/15/94) & OSHA/EPA Reference Method (29 CFR 1910.1001, App. A)

Filter Diameter: 25 mm Blank Correction: N/A f/mm² Field Area: 0.00785 mm²

Sample Identification		Sample Volume (liters)	Fields Counted	Total Fibers	Uncorrected Fiber Density (fibers/mm²)	Airborne Fiber Concentration (fibers/cm³)	Sample Description / Notes
Client	RJ Lee Group						
BS052107-16	1103138	1373.3	100	0	0.0	< 0.002	05/21/07: 7205 Hall
BS052107-17	1103139	1367.1	100	0	0.0	< 0.002	05/21/07: Copy Rm 7211
BS052107-18	1103140	1364	100	0.5	0.6	< 0.002	05/21/07: 7288
BS052107-19	1103141	1354.7	100	1	1.3	< 0.002	05/21/07: 7001
BS052107-20	1103142	1348.5	100	0.5	0.6	< 0.002	05/21/07: 7020
BS052107-21	1103143	1342.3	100	1	1.3	< 0.002	05/21/07: 6116
BS052107-22	1103144	1140	100	1	1.3	< 0.002	05/21/07: 6208
BS052107-23	1103145	1336.1	100	0	0.0	< 0.002	05/21/07: 6212
BS052107-24	1103146	1284	100	2.5	3.2	< 0.002	05/21/07: 6225
BS052107-25	1103147	1236.9	100	1.5	1.9	< 0.002	05/21/07: 6011

Monica M. McCloy
Monica M. McCloy
Laboratory Manager

Lena Bulgakova
Laboratory Analyst

Notes:
1. Air volumes provided by the client were used to calculate airborne concentrations.
2. PCM coefficients of variance range from approximately 0.4 at low fiber density to 0.1 at high fiber density.
3. These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.
4. "<" indicates the fiber density is below the detection limit. A fiber density of 7 f/mm2 is used to calculate the detection limit.
5. This test report relates only to the items tested and is not valid without the signature of an approved AIHA signatory.
6. Blank samples were not submitted by the client with this set of samples.

Monroeville, PA · San Leandro, CA · Washington, DC

RJ Lee Group, Inc.

AIHA Accreditation No. 100511

10503 Battleview Parkway · Manassas, VA 20109
Voice 703 / 368-7880 · Fax 703 / 368-7761

LABORATORY REPORT

MasiMax Resources, Inc.
11417 Sunset Hills Road, Suite 225
Reston, Virginia 20190
Attention: Bjarne Smith
Telephone: 571-203-7766

Report Date: June 14, 2007
Sample Receipt Date: June 08, 2007
Sample Analysis Date: June 12, 2007
RJ Lee Group Job No.: AOW-706055
Client Job No.: 139-419
Authorization/P.O. No.: Bjarne Smith

Analysis: Fibers (greater than or equal to 5 um long) on Mixed Cellulose Ester Filters
Method: Phase Contrast Microscopy (PCM), NIOSH 7400 Method (Issue 2, 08/15/94) & OSHA/EPA Reference Method (29 CFR 1910.1001, App. A)

Filter Diameter: 25 mm Blank Correction: N/A f/mm² Field Area: 0.00785 mm²

Sample Identification		Sample Volume (liters)	Fields Counted	Total Fibers	Uncorrected Fiber Density (fibers/mm²)	Airborne Fiber Concentration (fibers/cm³)	Sample Description / Notes
Client	RJ Lee Group						
BS052107-26	1103148	1109.8	100	0	0.0	< 0.002	05/21/07: Hall 5205
BS052107-27	1103149	1317.5	100	1	1.3	< 0.002	05/21/07: Hall 5213
BS052107-28	1103150	1314.4	100	0	0.0	< 0.002	05/21/07: Hall 6231
BS052107-29	1103151	1252.4	100	0	0.0	< 0.002	05/21/07: Hall 5008
BS052107-30	1103152	1311.3	100	1.5	1.9	< 0.002	05/21/07: Hall 5002

Monica M McCloy
Monica M. McCloy
Laboratory Manager

Lena Bulgakova
Laboratory Analyst

Notes:
1. Air volumes provided by the client were used to calculate airborne concentrations.
2. PCM coefficients of variance range from approximately 0.4 at low fiber density to 0.1 at high fiber density.
3. These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.
4. "<" indicates the fiber density is below the detection limit. A fiber density of 7 f/mm2 is used to calculate the detection limit.
5. This test report relates only to the items tested and is not valid without the signature of an approved AIHA signatory.
6. Blank samples were not submitted by the client with this set of samples.

Monroeville, PA · San Leandro, CA · Washington, DC

RJ Lee Group, Inc.

NVLAP Accreditation No. 101208-3

10503 Battleview Parkway · Manassas, VA 20109
Voice 703 / 368-7880 · Fax 703 / 368-7761

LABORATORY REPORT

MasiMax Resources
11417 Sunset Hills Road, Suite 225
Reston, Virginia 20190
Attention: Bjarne Smith
Telephone: 571-203-7766

Report Date: December 06, 2006
Sample Receipt Date: November 21, 2006
Sample Analysis Date: December 05, 2006
RJ Lee Group Job No.: ATW-611126-1
Client Job Number: 139-419
Authorization / P.O. No.: Bjarne Smith

Analysis: Airborne Asbestos(greater than 5:1 aspect ratio) on 25 mm Diameter MCE Filters

Method: Transmission Electron Microscopy (TEM) with Selected Area Electron Diffraction (SAED) and Energy Dispersive X-ray Spectroscopy (EDXS), EPA AHERA Method (40 CFR 763, Subpart E, Appendix A, Mandatory Method)

Grid Opening Area (mm²): 0.00833427 Filter Area (mm²): 385 Detection Limit (structures per analysis): 1

Sample Identification		Client's Sample Description	Air Volume (liters)	Area Analyzed (mm²)	Asbestos Structures Detected (length in micrometers)				On - Filter Asbestos Concentration (str./mm²)	Analytical Sensitivity (str./cm³)	Airborne Asbestos Concentration (str./cm³)	Type(s) of Amphibole Structure(s) Detected
					Chrysotile		Amphibole					
RJ Lee Grp	Client				< 5	>= 5	< 5	>= 5				
1093906	BS 111306F-07	11/13/06: NW Corridor, 1st Floor	1435	0.0500	2	0	0	0	40.0	0.005	0.011	---

Lena Bulgakova
Laboratory Analyst

Monica M. McCloy
Monica M. McCloy
Laboratory Manager

Please see essential notes on the reverse side of this report.
"N/A" means sample was not analyzed.

MasiMax Resources, Inc.

NIOSH 7400 COUNT SHEET

Project/Task: GSA 139-419 **Project Location:** NOEB

Sample #: BS 111306- Blank 1

10	20	30	40	50	60	70	80	90	100
	1 0	0	0	0 1			0		0.5
					0	0	0		
2									
									0

$$f/cc = \frac{\frac{\text{Fiber}}{\text{Field}} \times 385}{7.85 \times \text{Sample Volume}} = \_\_\_\_\_$$

Sample Volume
Fibers/Field
4.5/100
Fiber/cc

Analyst: B Smith **Date:** 11-27-06

Project/Task: GSA 139-419 **Project Location:** NOEB

Sample #: BS 111306- Blank 2

10	20	30	40	50	60	70	80	90	100
							0	0	0
					0	0 0			
		0	0	0			0.5		

$$f/cc = \frac{\frac{\text{Fiber}}{\text{Field}} \times 385}{7.85 \times \text{Sample Volume}} = \_\_\_\_\_$$

Sample Volume
Fibers/Field
0.5/100
Fiber/cc

Analyst: B Smith **Date:** 11-27-06

ient: GSA 139419 Client ID: NOEB

NIOSH 7400 COUNT SHEET

Sample BS 051607-Blank1

10	20	30	40	50	60	70	80	90	100
				0.5				1	
1							1		
						0			0

fiber/cc 3.5/100

fibers/field

volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = _____

f/cc = _____

Analyst: BSmith Date: 05-22-07

Reportable Comments : _____

NIOSH 7400 COUNT SHEET

BS 051607-Blank2

10	20	30	40	50	60	70	80	90	100
								0.5	
1			1		0				

fiber/cc 2.5/100

fibers/field

volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = _____

f/cc = _____

alyst: BSmith Date: 05-22-07

Reportable Comments : _____

Client: GSA 139.419 Client ID: GSA

NIOSH 7400 COUNT SHEET Sample # BS05 2/07- Blank 1

10	20	30	40	50	60	70	80	90	100
1								1	
					0				0

fiber/cc 2/100

fibers/field

volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = _____

f/cc = _____

Analyst: B Smith Date: 05-22-07

Reportable Comments : _____

NIOSH 7400 COUNT SHEET Sample # BS05 2/07- Blank 2

10	20	30	40	50	60	70	80	90	100
0.5									1
				1					
	1								

fiber/cc 3.5 /100

fibers/field

volume

f/cc = $\frac{\text{fiber field} \times 385}{7.85 \times \text{volume}}$ = _____

f/cc = _____

Analyst: B Smith Date: 05-22-07

Reportable Comments : _____

Received / Mailed
SEP 1 1994 T.S./WPXE

94-974

Tracor Technology Resources, Inc.
1601 Research Boulevard
Rockville, MD 20850-3173
301 251-4911

AC010522
CANDFILE: 940825

TRACOR

Project No.: 6486-012A
Serial No.: JG-94-087
ACT No.: 05554577

August 25, 1994

Ms. Normajean Eleazer
GSA, NCR, WPX, Room 2036
7th and D Streets, SW
Washington, DC 20407

Subject: PROGRESS REPORT XIII - NEW EXECUTIVE OFFICE BUILDING

Dear Ms. Eleazer:

This is a progress report on the asbestos abatement project that occurred at the New Executive Office Building on the 3rd and 8th floors on July 14-16 and 21-23, 1994.

Personnel from Tracor Technology Resources, Inc. (TTR) monitored Retro Environmental, a licensed asbestos abatement contractor, removing approximately eight-hundred and ten (810) square inches of asbestos containing deck insulation, utilizing full containment procedures.

The Industrial Hygiene Consultant's responsibilities include conducting inspections of the worksite, assessing work practices, and collecting air samples. A total of forty-five (45) air samples were collected. This project consisted of two (2) start up, six (6) daily, two (2) final and two (2) CIH inspection checklist reports.

The TTR Industrial Hygienist conducted daily air monitoring to determine work area fiber concentrations, and fiber levels outside the work area. In addition, the Industrial Hygienist conducted final inspections and clearance air testing. All final clearance air samples were below the required EPA level of 0.01 fibers per cubic centimeter (0.01 f/cc).

Air sample collection measurement and analysis followed the NIOSH 7400 Method A Rules. Air sampling pumps were calibrated both before and after collecting each sample set. Area samples were taken at ≥2.5 liters per minute, and all clearance samples were taken at 10.0 liters per minute.

Please find enclosed air sampling data, daily and final checklists, and all daily log notes.

If you should have any questions or need additional information, please call. We can be reached at (301) 251-4921.

Sincerely,

TRACOR TECHNOLOGY RESOURCES, INC.

Prepared by: for S. R. Philpott
John Golombieski III
Industrial Hygienist

Technical Review: Unhee Kim
Unhee Kim, CIH

JG:srp

Enclosures

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

08/15/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
6486012	161194	1	07/22/94	OUT	< 0.008
6486012	161294	2	07/22/94	OUT	< 0.006
6486012	161394	3	07/22/94	OUT	< 0.006
6486012	161494	4	07/22/94	OUT	< 0.006
6486012	161594	5	07/22/94	OUT	< 0.005
6486012	161694	6	07/22/94	INS	0.03[illegible]
6486012	161794	7	07/22/94	BLK	BLANK= 0.0[illegible]
6486012	161894	8	07/22/94	BLK	BLANK= 0.0[illegible]

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL T. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

08/05/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
648601201	139694	9	07/23/94	INS	< 0.006
648601201	139794	10	07/23/94	OUT	VOIDED
648601201	139894	11	07/23/94	OUT	< 0.005
648601201	139994	12	07/23/94	OUT	< 0.006
648601201	140094	13	07/23/94	OUT	< 0.005
648601201	140194	14	07/23/94	OUT	< 0.005
648601201	140294	15	07/23/94	INS	< 0.004
648601201	140394	16	07/23/94	INS	< 0.004
648601201	140494	17	07/23/94	FIN	< 0.004
648601201	140594	18	07/23/94	FIN	< 0.004
648601201	140694	19	07/23/94	OUT	BLANK= 0.00
648601201	140794	20	07/23/94	OUT	BLANK= 0.00

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY

MICHAEL L. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

08/15/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
648601201	137294	01	07/15/94	OUT	< 0.00-
648601201	137394	02	07/15/94	OUT	0.00-
648601201	137494	03	07/15/94	OUT	< 0.00-
648601201	137594	04	07/15/94	OUT	< 0.00-
648601201	137694	05	07/15/94	OUT	< 0.00-
648601201	137794	06	07/15/94	INS	0.01-
648601201	137894	07	07/15/94	OUT	BLANK= 0.0-
648601201	137994	08	07/15/94	OUT	BLANK= 0.0-

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY

MICHAEL L. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

08/15/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
6486012	161994	9	07/16/94	INS	0.030
6486012	162094	10	07/16/94	OUT	< 0.005
6486012	162194	11	07/16/94	OUT	< 0.005
6486012	162294	12	07/16/94	OUT	< 0.005
6486012	162394	13	07/16/94	OUT	< 0.005

KEY:
- BKG BACKGROUND
- FIN FINAL CLEARANCE AIR
- PER PERSONAL
- GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
- INS INSIDE CONTAINMENT
- OUT OUTSIDE CONTAINMENT

APPROVED BY

MICHAEL E. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

08/15/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
648601201	138094	14	07/16/94	OUT	< 0.006
648601201	138194	15	07/16/94	OUT	< 0.006
648601201	138294	16	07/16/94	OUT	< 0.006
648601201	138394	17	07/16/94	OUT	< 0.006
648601201	138494	18	07/16/94	OUT	< 0.006
648601201	138594	19	07/16/94	INS	0.05
648601201	138694	20	07/16/94	FIN	< 0.004
648601201	138794	21	07/16/94	FIN	< 0.004
648601201	138894	22	07/16/94	FIN	< 0.004
648601201	138994	23	07/16/94	FIN	< 0.004
648601201	139094	24	07/16/94	OUT	BLANK= 0.00
648601201	139194	25	07/16/94	OUT	BLANK= 0.00

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY
MICHAEL D. EDWARDS
LABORATORY MANAGER

CIH INSPECTION

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486012

Location: 8th Floor Date: 7/23/94

Removal Contractor: RETS Time Started: 1715

Monitoring Contractor: TRACOR Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > ~~.03"~~ 0.02 as per contract	0.02	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [illegible] Date: 7-23-94

CIH Inspection

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6480012

Location: 3rd Floor Date: 7/16/94

Removal Contractor: RETRO Time Started: 1400

Monitoring Contractor: TRACOR Time Stopped: 14:20

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	0.032"	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	N/A	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 7-18-94

Tracor Technology Resources **Air Sample Sheet**

Project # 64860.12

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	161194	01	49	2.5	2.5	2.35	0213	—	277	651	2.5	100	0	2.5	0.002
A	Notes: Area Sample: NOB, 8th Floor, North West corner, Outside containment, beside room # 8112.														
B	161294	02	93	2.5	2.5	2.5	0215	0808	353	883	2	100	0	2	0.001
B	Notes: Area Sample: NOB, 8th Floor North West corner, Outside containment, beside room # 8111A.														
C	161394	03	23	2.5	2.5	2.55	0218	0808	350	823	0	100	0	0	<0.001
C	Notes: Area Sample: NOB, 8th Floor, North West corner, Outside containment, beside room # 8105.														
D	161494	04	16	2.5	2.5	2.5	0220	0808	348	870	3	100	0	3	0.002
D	Notes: Area Sample: NOB, 8th Floor, North West corner, Outside containment, beside room # 8101.														

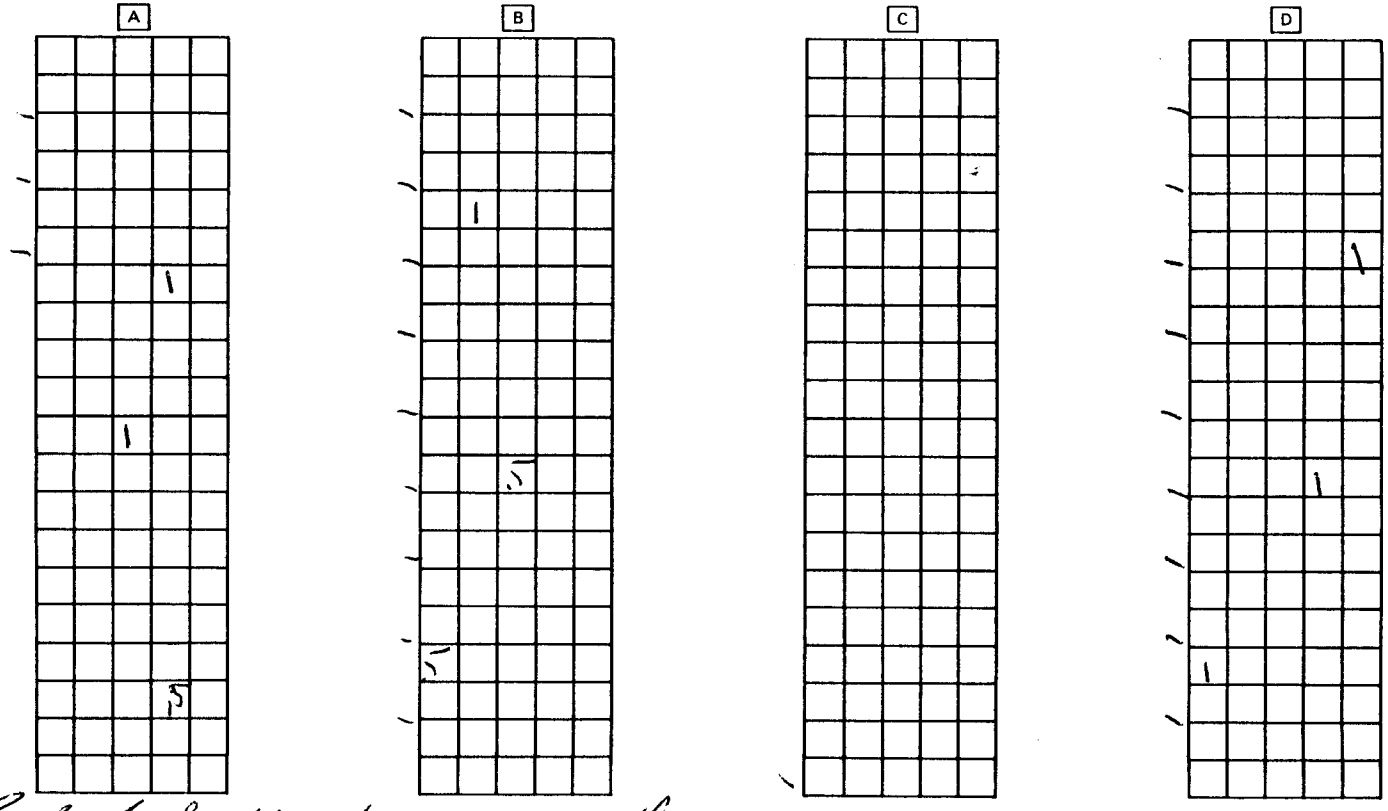
Field Area (Check One): ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Carl A. Butler 7/22/94
FIELD TECH. DATE

ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 64,860,12

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	161594	85	5111	2.5	2.5	2.5	0225	0836	371	928	0	100	0	0	<0.001
A	Notes: Area Sample: NOB, 8th Floor, North West corner, Outside containment, beside room #8203.														
B	161694	86	5112	2.5	2.5	2.5	0225	0808	343	840	57	100	0	57	0.03
B	Notes: Area Sample: NOB, 8th Floor, North West corner, Inside containment.														
C	161794	87	—	—	—	2	—	—	—	—	0	100	0	0	—
C	Notes: Blank Sample:														
D	161894	88	—	—	—	—	—	—	—	—	0	100	0	0	—
D	Notes: Blank Sample:														

Field Area: (Check One)
- [x] .00785
- [ ] .00754
- [ ] .00724
- [ ] .00801
- [ ] .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- [x] 25 mm (385 sq mm)
- [ ] 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

B

1	.5		1	1.5
1	1		2	
.5		.5	1	
	1	1		
			1	
1	1	2	.5	2
1				
	1	2	2	.5
1	1		3	
		1	.5	.5
	.5		1	
	3	2	2	.5
		.5		
	1		1	
	1	.5	1	
.5	1	1		
	.5		1	2
	2		1	
1		.5		

C

D

Paul A. Little 7/22/94
FIELD TECH. DATE

B. Hamel
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6486012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	139694	09	519123	2.1	2.1	2.1	0822	1458	396	832	9	100	8	0.09	0.005
A	Notes: AREA — 8th Floor NW barrier - inside containment														
B	139794	10	02	2.2	—	—	0825	faulty	—	—	—	—	—	—	—
B	Notes: AREA — 8th Floor outside decon entr/exit lobby bulletin board														
C	139894	11	01	2.3	2.3	2.3	0827	1458	391	899	4	100	8	0.04	0.002
C	Notes: AREA — 8th Floor outside barrier @ Freight elevator														
D	139994	12	03	2.1	2.1	2.1	0828	1458	390	819	4	100	8	0.04	0.002
D	Notes: AREA — 8th Floor outside barrier Rm 8103														

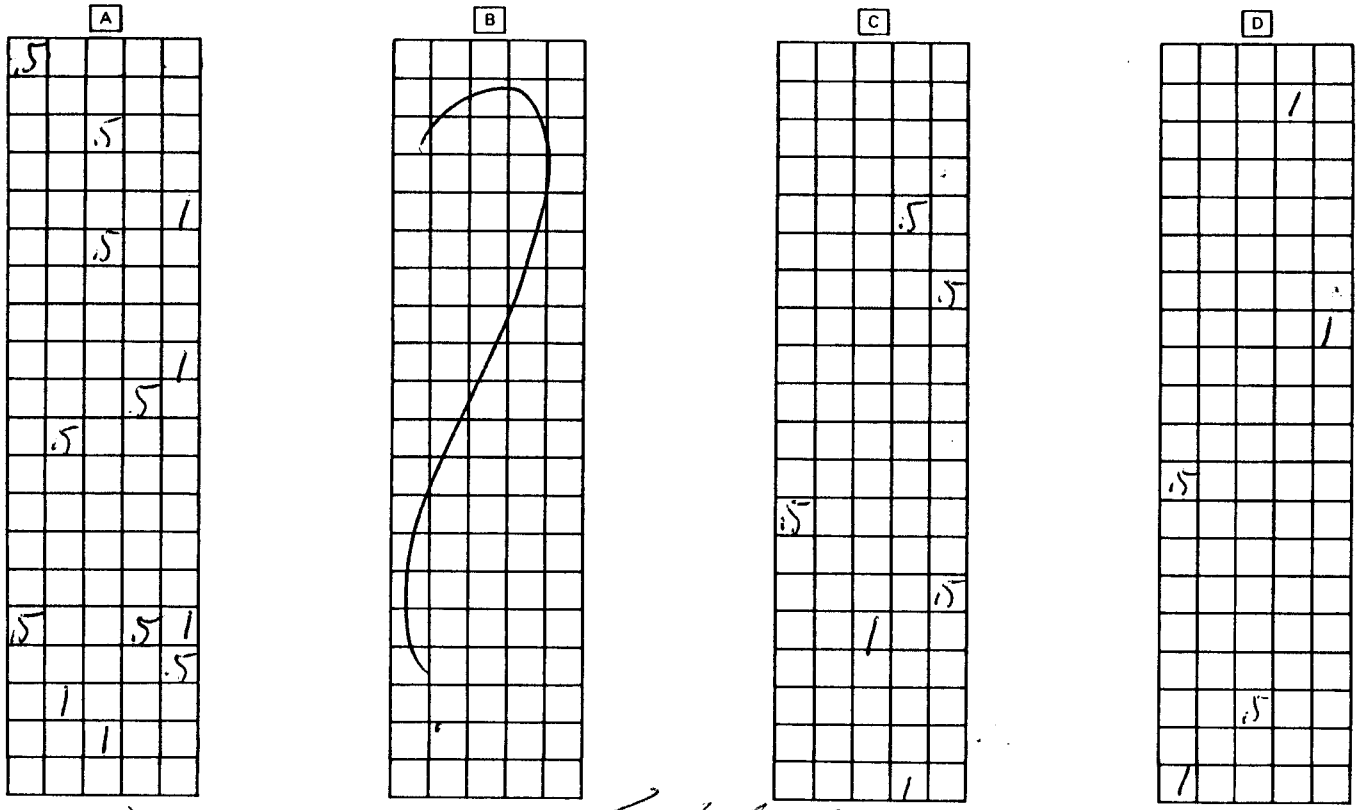
Field Area: (Check One) ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Barry J. Werner 7/23/94
FIELD TECH. DATE

ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 64860.12

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	140094	13	04	2.2	2.2	2.2	0836	1500	384	960	2	100	0	0.02	<0.002
A	Notes: AREA — 8th floor outside barrier sign 8202														
B	140194	14	5[illegible]46	2.3	2.2	2.25	0840	1502	382	955	4	100	0	0.04	0.002
B	Notes: AREA — 8th floor outside barrier sign 8207														
C	140294	15	0068	10.0	10.0	10.0	2000	2200	120	1200	2	100	0	0.02	<0.002
C	Notes: Final Sample: NOB, 8th Floor, NorthWest corner, Inside containment.														
D	140394	16	0072	10.0	10.0	10.0	2000	2200	120	1200	2	100	0	0.02	<0.002
D	Notes: Final Sample. NOB, 8th Floor, NorthWest corner, Inside containment.														

Field Area: (Check One) ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

			.5	
		.5		
.5				
		.5		

B

			.5	
.5				
.5				
	1			
.5				
			1	

C

				1
			.5	

D

		.5		
.5				

Barry J. Hamber 7/23/94
FIELD TECH. DATE

[illegible] 7/23/94
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6,4,8,6,0,1,2

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	140494	17	3706	10.0	10.0	10.0	2000	2200	120	1200	3	100	Ø	0.03	<0.002
A	Notes: Final Sample:														
B	140594	18	0072	10.0	10.0	10.0	2000	2200	120	1200	2.5	100	Ø	0.025	<0.002
B	Notes: Final Sample:														
C	140694	19									Ø	100	Ø	—	Ø
C	Notes: Blank Sample:														
D	140794	20									Ø	100	Ø	-	Ø
D	Notes: Blank Sample:														

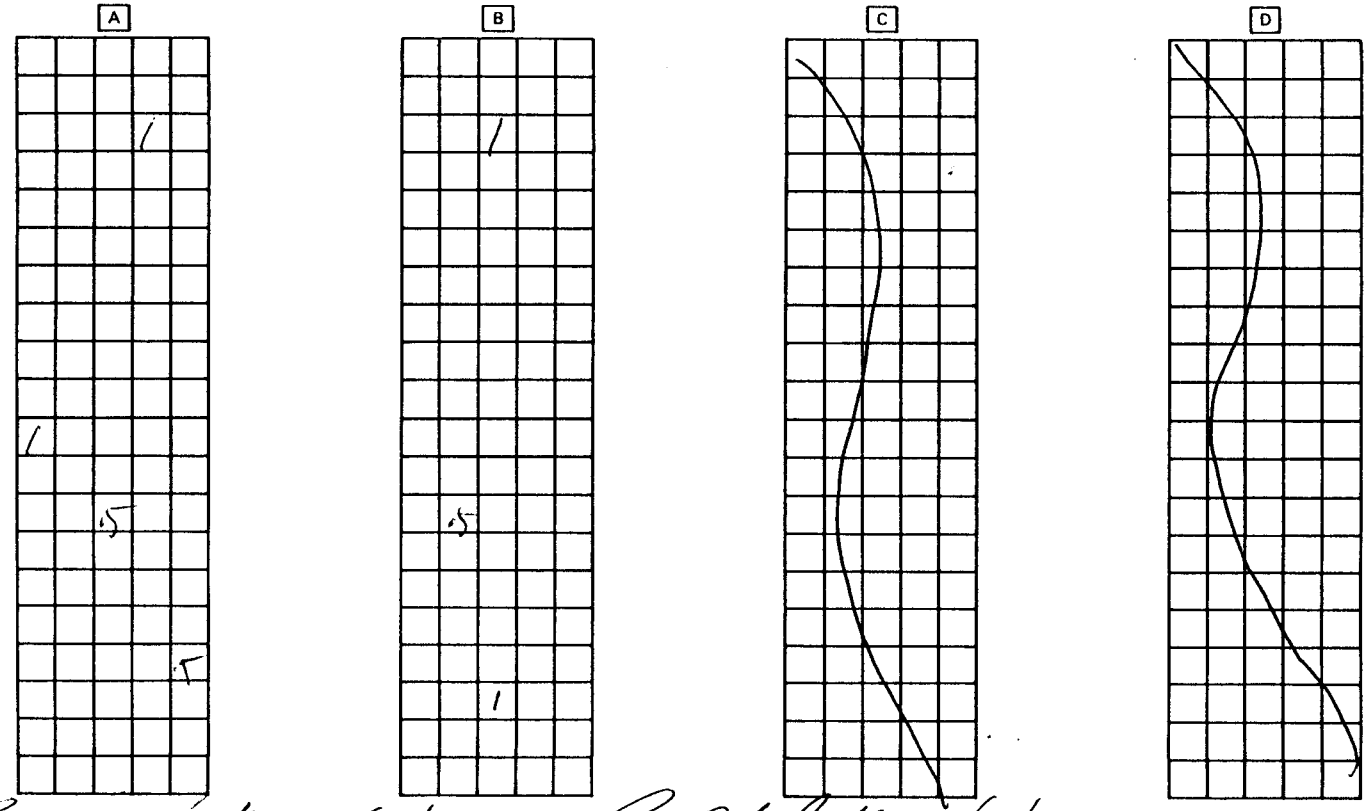
Field Area: (Check One) ■ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ■ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



FIELD TECH. DATE 7/23/94 ANALYST DATE 7/23/94

"A" Sheet

Tracor Technology Resources

ASBESTOS PRE-ABATEMENT CHECKLIST

Building: New Executive Office Building Date: 7/22/94

Address: #725, 17, St. NW. Washington DC. 20006

Project Number/Description: ACM Spot removal from ceiling on #8th floor, North West Corner.

Company Performing Abatement Retro Environmental, Inc.

Abatement Company Supervisor on Job: Ron Tubangbanua Title: Supervisor

Building Occupied: ✓ Yes ___ No

Work-Site Preparation	Yes	No	Not Applicable
A. General			
1. Area non-accessible to general public	✓		
2. Sufficient fire/emergency exits	✓		
a. Fire/Emergency evacuation plan developed and reviewed with all abatement workers	✓		
3. Safety hazards reduced	✓		
a. Other safety aspects addressed:			
1. height	✓		
2. confined spaces	✓		
3. electrical	✓		
4. heat	✓		
5. cold	✓		
6. other	✓		
4. Work-Zone Area: Sq. Ft. ___ Cu. Ft. ___ Number of Rooms 6			
5. Pre-cleaning (Hepa/Wet Wipe)			
a. Moveable objects	✓		
b. Fixed objects	✓		
6. Temporary Waste Storage Area	✓		
7. Emergency Plan/Phone Numbers	✓		

Comments"

	Yes	No	Not Applicable
B. Signage			
1. Proper warning signs at entrances and exits	✓		
2. Dumpster Labeled		✓	

Comments:

All ACM bag's will be removed offsite at completion of this week's asbestos abatement removal project.

C. Airlock-Decontamination Area			
1. Clean Room - 1st Stage			
a. Hangers/lockers, clothing storage provided	✓		
b. Double plastic flaps at entrance and exit	✓		
c. Asbestos bag for towel/cartridge disposal	✓		
2. Shower Area - 2nd Stage			
a. Showers operating	✓		
1) Hot Water Available	✓		
2) Cold Water Available	✓		
b. Shower waste water properly filtered	✓		
c. Double plastic flaps at entrance and exit	✓		
d. Clean, disposable towels available	✓		
e. Opaque Poly at exit/entrance	✓		
f. Soap, shampoo available	✓		
g. Disinfectant available	✓		
3. Equipment Room - 3rd Stage			
a. Double plastic flaps at entrance and exit	✓		
b. Asbestos bag for disposal of used suits	✓		

Comments:

	Yes	No	Not Applicable
D. Perimeter Barrier Preparation			
1. 6 ml plastic used	✓		
2. Floor plastic (2 layers)	✓		
3. Wall plastic	✓		
4. Proper sealing of:			
a. Doors	✓		
b. Windows	✓		
c. Ventilation Systems	✓		
1) Vents	✓		
2) Ducts	✓		
3) Grilles	✓		
4) System turned off			✓
d. Pipes and conduit			✓
e. Light Fixtures			✓
f. Sprinkler heads			✓
g. Any other openings into work area			✓
h. Other misc. fixtures/gauges, etc.			✓
i. Penetrations through ceiling into work area			✓
5. Test Methods			
a. Smoke tubes	✓		
b. Visual	✓		

Comments:

The ACM removal project, was conducted in ceiling area, from concreate deck.

E. Asbestos Removal Equipment

1. H.E.P.A. Filtered Vacuums

a. Number of units #5

b. Type Aero-Clean Econo

c. H.E.P.A. filters present 1/05

d. Machine working hours N/A

e. Most recent date of H.E.P.A. filter change 6/29/94

2. H.E.P.A. Ventilation Units

a. Number of units #10

b. Type Aero - Clean Econo

c. Operating ✓ Yes ___ No

d. H.E.P.A. filters present ✓ Yes ___ No

e. Exhausted out of work area ✓ Yes ___ No

f. Machine working hours 1720

g. Most recent date of H.E.P.A. filter change 3/26/94

h. Negative pressure inside work area:

Measurements	Inches H20	Location
1 0300	0.03	Outside containment by room # 8112
2		
3		

3. Water hoses present ✓ Yes ___ No

4. Airless sprayers present ✓ Yes ___ No

5. Surfactant present ✓ Yes ___ No

6. Type of encapsulant to be used lock down #909

7. Any other equipment to be used N/A

Comments:

F. Worker Protection

1. Respiratory Protection

a. Type of respirators to be used A half face & North / MSA.

b. Are respirators NIOSH/MSHA approved? ✓ Yes ___ No

2. Employee training within past 12 months? ✓ Yes ___ No

3. Medical Exam within past 12 months? ✓ Yes ___ No

4. If jurisdiction requires licensing, do all workers have proper identification to perform asbestos removal? ✓ Yes ___ No

5. Disposable Protective Clothing

✓ Full body coveralls
___ Hard hats
✓ Head covers
___ Eye protection
✓ Foot covers
✓ Gloves
___ Ear protection
___ Knee protection
___ Rubber boots

6. First aid kit on site? ✓ Yes ___ No

7. Adequate lighting? ✓ Yes ___ No

Comments:

G. Verification of Waste Disposal Site ✓ Yes ___ No

Name and Location: Maryland.

H. Authorization to Proceed

Date: July 23, 1994 Time: 0300

Inspector: Carl A. Sutter Title: T.H.

Signature: Carl A. Sutter

Authorization given to: Ron Tubongbanua.

Witness(es): Robert Phillips.

New Executive Office Building

July 22, 1994

Daily Report

1830 Arrival onsite at NOB.

1845 Met escort in lobby & Retro asbestos abatement worker as well.

1930 Equipment & material were delivered to 8th floor tonights / weekend asbestos abatement removal area.

2035 Set-up has started

2135 Set-up continues.

2315 Set-up continues.

2430 Set-up continues.

0130 Set-up continues.

0240 Pre-abatement, inspection performed on containment, The supervisor from Retro, was informed, to do additional Sealing.

0240 Note: GSA informed Retro that they will close the fire dampers, but wouldn't turn off the HVAC units because it will kill the building, I informed Retro that the HVAC needed to be turned off, or blocked off, Retro informed the I.H. & GSA that the section was sealed off.

0310 Removal Started

0500 Removal continues.

0700 Barry arrived onsite, from TTR.

6486-012 "C" Sheet

Tracor Technology Resources

FINAL INSPECTION OF ASBESTOS REMOVAL

Building: New Executive Office Building Date: 7/23/94

Location: #725, 17 St. NW. Washington DC. 20006

Project Number/Description: ACM Spot removal, #8th Floor, North West Corn

Company Performing Abatement: Retro Environmental, Inc.

Building Supervisor on Job: Ron Tubongbanua Title: Supervisor

Foreman on Job: _____ Title: _____

TTR Inspector: Carl A. Butler Title: I. H.

	Yes	No	Not Applicable
A. Inside Work Area			
1. All surfaces have been wet cleaned.	✓		
2. All outer layers of plastic sheeting have been removed from walls and floors.	✓		
3. Visible residue/residual dust removed from:			
a. Floor	✓		
b. Horizontal surfaces	✓		
c. Pipes			✓
d. Ventilation equipment	✓		
e. Horizontal surfaces	✓		
f. Pipes			✓
g. Ducts			✓
h. Register/s	✓		
i. Lights	✓		
4. A thin coat of satisfactory encapsulating agent has been applied on to all surfaces including structural members and building components (if in specifications).	✓		
5. All contained waste has been removed from the work area in proper decontaminated containers.	✓		
6. Damage incurred has been repaired by workers.	✓		
7. Persons loading/unloading ACM are properly protected with disposable clothing and respirators.	✓		

Tracor Technology Resources, Inc. a subsidiary of Tracor, Inc. 1601 Research Boulevard Rockville, Maryland 20850
Telephone 301: 251 4911 Fax 301: 251 4917

Tracor Technology Resources

Comments:

ACM spot removal was performed on concreate deck these area were encapsulated & new drop ceiling tiles were replaced. The plastic walls & floors were allso encapsulat

	Yes	No	Not Applicable
B. Clearance Testing			
1. Agressive final air sampling?		✓	

if yes, describe method. _____

Comments:

Final Air Sample Results: Date/Time: 07/24/94 2230

15. Final Sample: 1026, 8th Floor, North West corner, Inside containment <0.002 f/cc.
16. Final Sample: 1026, 8th Floor, North West corner, Inside containment <0.002 f/cc.
17. Final Sample: 1026, 8th Floor, North West corner, Inside containment <0.002 f/cc.
18. Final Sample: 1026, 8th Floor, North West corner, Inside containment <0.002 f/cc.

Given to: Ron Tubongbanua. Date/Time: 7/24/94 2230

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 648-02

Location: 8th Floor Date: 7-22-94

Removal Contractor: RETCO Time Started: 1900

Monitoring Contractor: TTL Time Stopped: 0700

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA PAPR TYP "C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

S Colombiesk for

Report Prepared By: Carl Butler Date: 7-22-94

"B" Sheet

Tracor Technology Resources

DAILY ASBESTOS ABATEMENT CHECKLIST

Building: New Executive Office Building Date: 7/23/94

Address: #725, 17 St. NW Washington DC. 20006

Project Number/Description: ACM Spot removal, from ceiling

Company Performing Abatement: Retra Environmental, Inc.

Abatement Company Supervisor on Job: Ron Tubangbanua Title: Supervisor

Work-Site Preparation	Yes	No	Not Applicable
A. Airlock - Decontamination Area	✓		
1. Clean Room - 1st stage			
a. Floors clean	✓		
b. Asbestos bag for disposal of towels and cartridges	✓		
c. Street clothes properly stored	✓		
d. Daily sign-in/sign-out sheet posted	✓		
2. Shower area - 2nd stage			
a. Shower operating	✓		
1. Hot water available	✓		
2. Cold water available	✓		
b. Shower waste water properly filtered	✓		
c. Opaque Poly at exit and entrance	✓		
d. Soap and shampoo available	✓		
e. Sanitized	✓		
3. Equipment area - 3rd stage			
a. No excess asbestos debris present	✓		
b. Contaminated suits and material placed in asbestos bag	✓		
4. Airlock perimeter plastic flaps intact	✓		
5. Proper signage at entrance	✓		

Tracor Technology Resources, Inc. a subsidiary of Tracor, Inc. 1601 Research Boulevard Rockville, Maryland 20850
Telephone 301: 984 2849 FAX 301: 984 2817

Comments:

	Yes	No	Not Applicable
B. Perimeter Barriers			
1. Perimeter plastic intact	✓		
2. Windows and doors sealed	✓		
3. Ducts, ventilation systems, pipes sealed	✓		
4. All other vertical and horizontal openings into area sealed	✓		

Comments:

	Yes	No	Not Applicable
C. Work Area Practices			
1. No hammers, saws or brooms	✓		
2. Material kept wet	✓		
3. Material bagged properly	✓		
4. Workers protective equipment:			
a. Full body disposable clothing intact	✓		
b. Proper foot protection	✓		
c. Proper NIOSH/MSHA approved respirators Type: A half face, North L MSA	✓		
d. Hard hats		✓	
e. Eye protection		✓	
f. Gloves	✓		
g. Ear protection		✓	
h. Knee Protection/Elbow Protection			✓
i. Rubber boots			✓
5. Adequate lighting	✓		
6. Protective equipment for inspectors available	✓		
7. Emergency/fire exits marked and unobstructed	✓		

Comments:

	Yes	No	Not Applicable
D. Worker Decontamination and Work Habits			
1. Workers shower upon leaving work area	✓		
2. Contaminated full body suits bagged in dirty room	✓		
3. Disposable suits used once	✓		
4. No smoking in regulated area	✓		
5. No eating or drinking in regulated area	✓		

Comments:

E. H.E.P.A. Ventilation Units

1. Number in use _____

	Yes	No	Not Applicable
2. Pre-filters changed periodically	✓		
3. Negative Pressure Inside Work Area:	✓		

a. Measured with:
   1. Magnahelic gauge ✓
   2. Transducer _____

b. Location(s) and Negative Pressure Reading:

	Location	Inches H2O
#1	Outside containment	0.020
#2	beside room #8112.	0.024
#3		0.024

	Yes	No	Not Applicable
4. Is microtrap exhaust properly vented?	✓		
5. Is microtrap exhaust hose intact?	✓		

F. End of Work Day Procedures	Yes	No	Not Applicable
1. Material on floors bagged before leaving area	✓		
2. Bags of asbestos sealed and labeled	✓		
3. If bags are removed			
a. Properly decontaminated	✓		
b. Tightly sealed	✓		
c. Placed in drums			✓
4. Are microtraps left running overnight/ continuously through job end	✓		
5. Work area properly sealed off	✓		
6. Persons loading/unloading ACM are properly protected with disposable clothing and respirators	✓		

Comments:

G. Samples Taken	Area	Personal
1. Number of Air Samples taken		
2. Number of Air Samples taken by Contractor	N/A	
3. Number of Bulk Samples taken	N/A	

4. Personal Sampling Results:

Sample Number	Worker Task	Results (f/cc)
N/A		

H. What is the daily job progress?
(Include amount of asbestos which was removed/encapsulated)

Removal completed & area encapsulated.

New Executive Office Building

July 23, 1994

Daily Report

1730 Arrival onsite at NOB.

1800 Met escort in main lobby.

1810 Met Retro supervisor on 8th floor.

1900 Final visual inspection perform inside containment, Note: Retro personnel was informed to do additional cleaning on walls, floor.

1920 Area encapsulated.

2000 Final air monitoring started.

2200 The area has passed final air monitoring

2230 TTR Hygionist off site.

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486 012

Location: 8th Floor Date: 7/23/94

Removal Contractor: Retro Time Started: 0700

Monitoring Contractor: Tacor Time Stopped: 1800

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier		✓
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"		✓
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	N/A	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Perimeter barrier breached by elec. contractors to enter poly-covered closet in containment hallway.

Since A/C was not turned off, it was main problem in securing -0.02

Report Prepared By: [signature] Date: 7/23/94

Loc NE03 6486-012
IH B. Hemler Daily log 7/23/94

0700 On site pumps running from previous shift will pull at 0800. Workers cleaning grid, installing lights and sprinkler system

0720 Barrier inspection — neg pressure -0.008" shower water off. Turned water back on. Discovery cut barrier to access closet, will repair. No workers allowed in closet till set up by RCTO. Investing loss of pressure. by system pressure ≈0.020 since 0540 hrs. Will else fine

0800 Switch sets of pumps for second shift, pressure still -0.008 Auto switching on it.

0900 Pressure built to -0.020. However having trouble at back of containment with poly being pulled down, talk RCTO to relocate 2 pumps to other side of barrier.

1000 moved trap up to front and and partially sealed back room which had two tile removed and abs. closet. pressure -0.024 RCTO removing lights from barrier, abs & sprinkler work continues

1100 RCTO takes lunch, work continues. A/C has been on in barrier, not allowed to turn off.

1130 neg Pressure -0.016 and bouncing

1145-1245 Barrier inspection — lights out sealed with poly barrier with abs joint shown screws closed helped pressure -0.028 All fine

1300 Lights out of barrier all fine

1400 neg pressure -0.020 Automatic getting closer to ready for pressure test. abs work complete.

1500 Sending news CT into barrier, pulled pumps. Water test starts

1600 All fine Installing CT

1715 Cdt. site visit neg -0.020" test complete workers installing near CT

1745 All tile replace all fine

1800 End of Shift

Tracor Technology Resources — **Air Sample Sheet**

Project # 6486 01 2 01

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	137294	81	4927	2.5	2.5	2.5	2130	0630	540	1350	4	100	8	0.04	<0.002
A	Notes: Area Sample: NOB, #3rd floor, Outside containment, In hallway, beside elevators.														
B	137394	82	4936	2.5	2.5	2.5	2133	0633	540	1350	10	100	8	0.10	0.003
B	Notes: Area Sample: NOB, #3rd, floor, Outside containment, In stairwell, across from rm. #3015.														
C	137494	83	4932	2.5	2.5	2.5	2138	0635	537	1343	9	100	8	0.09	0.003
C	Notes: Area Sample: NOB, #3rd, floor, Outside containment, In stairwell, across from rm. #3026.														
D	137594	84	5105	2.5	2.5	2.5	2140	0635	535	1338	6	100	8	0.06	0.002
D	Notes: Area Sample: NOB, #3rd floor, Outside containment, In hallway beside rm. #3018.														

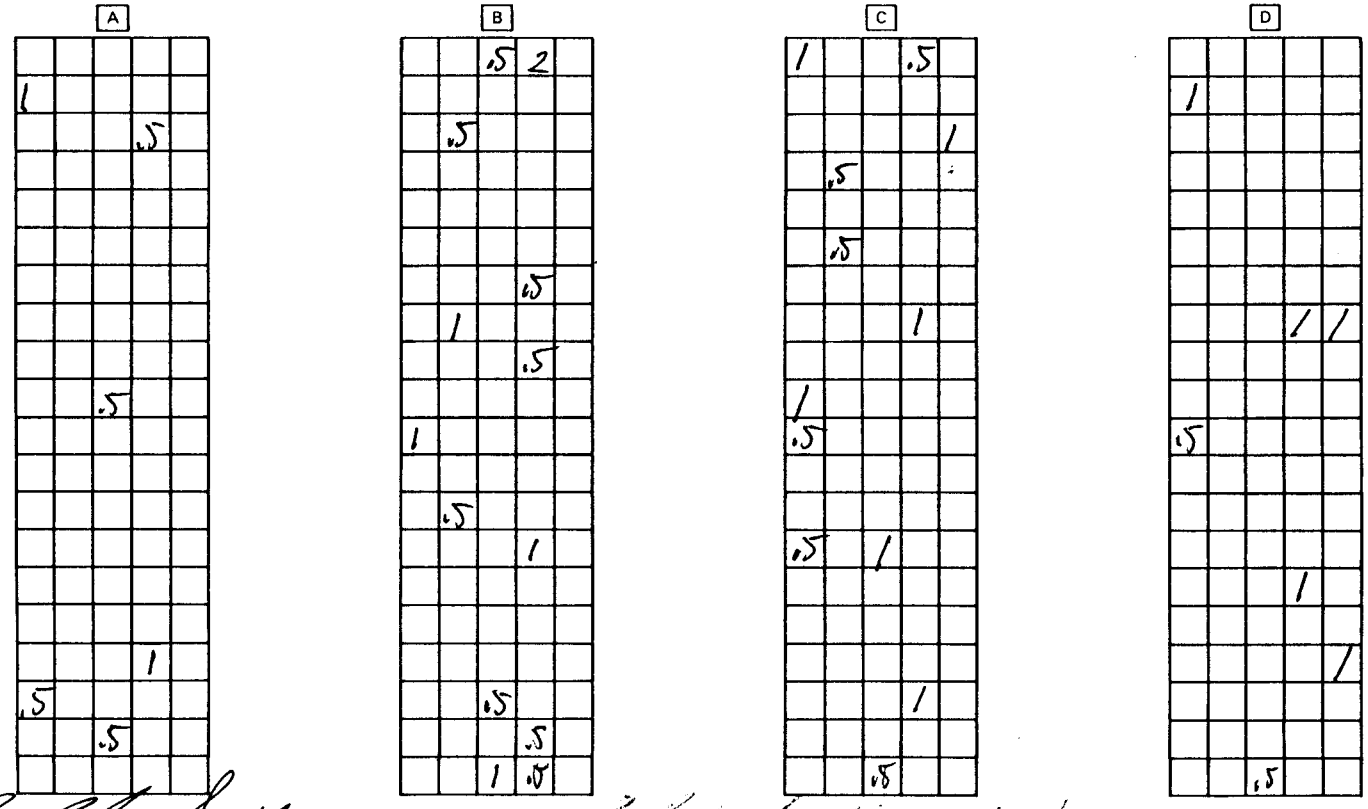
Field Area: (Check One)
- ☑ .00785
- ☐ .00754
- ☐ .00724
- ☐ .00801
- ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- ☑ 25 mm (385 sq mm)
- ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



FIELD TECH. — DATE 07/15/94 — ANALYST — DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 648601201

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	137694	05	5108	2.5	2.5	2.5	2145	0640	535	1338	3	100	0	0.03	0.002
A	Notes: Area Sample: NOB, #3rd floor, Outside containment, In room #3017.														
B	137794	06	3632	2.5	2.5	2.5	200	0640	280	700	24	100	0	0.24	0.016
B	Notes: Area Sample: NOB, #3rd floor, Inside containment, North East corner of Bldg.														
C	137894	07									0	100	0	–	0
C	Notes: Blank Sample:														
D	137994	08									0	100	0	–	0
D	Notes: Blank Sample:														

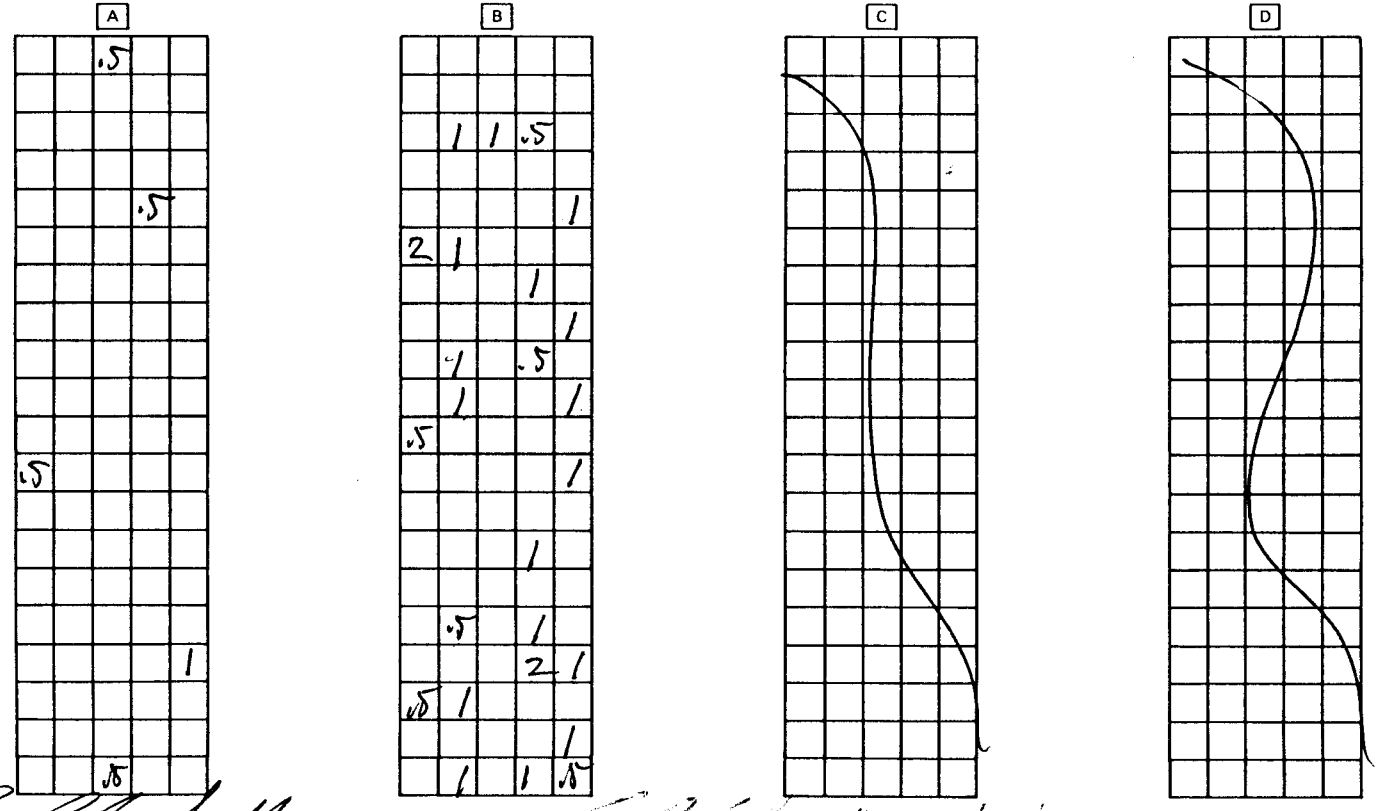
Field Area: (Check One) ■ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ■ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



FIELD TECH. DATE 07/15/94 ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 648612

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	161994	09	10	2.5	2.5	2.5	0905	1605	420	1050	65	100	0	65	0.03
A	Notes: Working - Inside Barrier														
B	162094	10	23	2.5	2.5	2.5	0858	1558	420	1050	9	100	0	9	0.004
B	Notes: Working -- outside decon, door sign 3013														
C	162194	11	5113	2.5	2.5	2.5	0858	1558	420	1050	4	100	0	4	0.002
C	Notes: Working - outside barrier - inside 3015														
D	162294	12	5258	2.5	2.5	2.5	0859	1559	420	1050	2	100	0	2	0.001
D	Notes: Working - outside barrier - inside 3103														

Field Area: (Check One) ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

1	.5	2	1.5	1
1	3	2	1	
	1		.5	1.5
2	2		1	
	1	1		2
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		1	.5	
	1	2		1
1	3		.5	
	1	2	1	
1	2	.5		
		1	1	3
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.5				1
1		5	1	
		1		
2		3	1	
	1		.5	
				2

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C

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			1	
1				

D

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.5				
		.5		

Barry Hamden 7/11/94
FIELD TECH. DATE

ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6486.012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	K2394	13	5967	2.5	2.5	2.5	0928	1658	450	1125	0	100	0	0	<0.001
A	Notes: Working - outside microtunnel exhaust - stainwell #3														
B															
B	Notes:														
C															
C	Notes:														
D															
D	Notes:														

Field Area: (Check One) ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A B C D

Barry J. Hendes 7/16/94
FIELD TECH. DATE

ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6486012 01

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	138094	14	4927	2.5	2.5	2.5	1905	2430	325	813	3	100	0	0.03	<0.002
A	Notes: Area Sample: NOB #3rd Floor, Outside containment, In hallway, beside elevators														
B	138194	15	4936	2.5	2.5	2.5	1908	2432	324	810	4	100	0	0.04	0.002
B	Notes: Area Sample: NOB #3rd Floor, Outside containment, In hallway, beside rm. #3015.														
C	138294	16	4912	2.5	2.5	2.5	1910	2438	328	820	5	100	0	0.05	0.003
C	Notes: Area Sample: NOB #3rd Floor, Outside containment, In stairwell, across from rm #3015.														
D	138394	17	5105	2.5	2.5	2.5	1912	2440	328	820	7	100	0	0.07	0.004
D	Notes: Area Sample: NOB #3rd Floor, Outside containment, In hallway beside rm. #3009.														

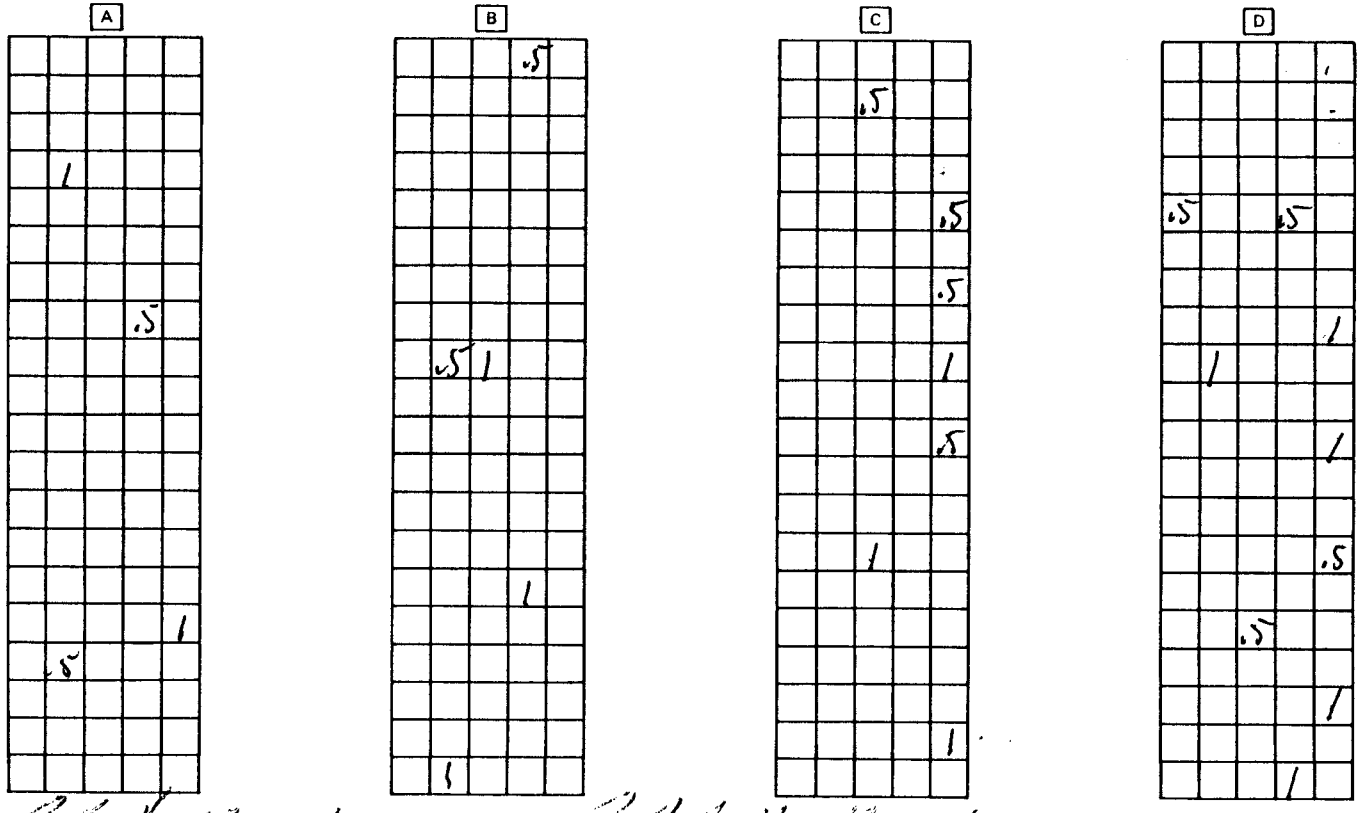
Field Area: (Check One) ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



FIELD TECH. DATE 07/16/94

ANALYST DATE 07/16/94

Tracor Technology Resources — **Air Sample Sheet**

Project # 6486.912.01

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	138494	18	5108	2.5	2.5	2.5	1915	2442	327	818	9	100	8	0.09	0.005
A	Notes: Area Sample: NOB, #3rd floor, Outside containment, In room #3017.														
B	138594	19	3632	2.5	2.5	2.5	1915	2445	330	8.25	90	100	8	0.90	0.053
B	Notes: Area Sample: NOB, #3rd floor, Inside containment, North East corner of bldg.														
C	138694	20	0068	10.0	10.0	10.0	0100	0300	120	1200	2	100	8	0.02	<0.002
C	Notes: Final Sample: NOB, #3rd floor, Inside containment, North East corner of bldg.														
D	138794	21	0072	10.0	10.0	10.0	0100	0300	1200	1200	3	100	8	0.03	<0.002
D	Notes: Final Sample: NOB, #3rd floor, Inside containment, North East corner of bldg.														

Field Area: (Check One) ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre + Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{\text{(Net Count/100) x Filter Area}}{\text{Field Area x Volume x 1000}}$

A

				.
1				.5
		1		
			.5	
				.5
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		.5		
				2
				1
	1			
			.5	

B

	1	.5	1	1
3	4		.5	
1		4	.5	.5
2		.5	1	2
2			1	.5
		2	3	.5
.5	2	1	1	1
	.5	1		
3		2	2	
	2	1	1	
3	1			1
.5	.5	.5	1	
1	1	1		1
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.5		1	2	2
.5				2
	2			
1			1	.5
3	2			3
1		2	1	

C

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D

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.5				
			.5	
1				

Carol A. Butler 7/16/94
FIELD TECH. DATE

Carol A. Butler 7/16/94
ANALYST DATE

Tracor Technology Resources | **Air Sample Sheet**

Project # 64860120 1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	138894	22	3903	10.0	10.0	10.0	0100	0300	120	1200	4	100	Ø	0.04	<0.002
A	Notes: Final Sample: NOB, #3rd floor, Inside containment, North East corner of bldg.														
B	138894	23	4036	10.0	10.0	10.0	0100	0300	120	1200	5	100	Ø	0.05	0.002
B	Notes: Final Sample: NOB, #3rd floor, Inside containment, North East corner of bldg.														
C	139094	24									Ø	100	Ø	—	Ø
C	Notes: Blank Sample:														
D	139194	25									Ø	100	Ø	—	Ø
D	Notes: Blank Sample:														

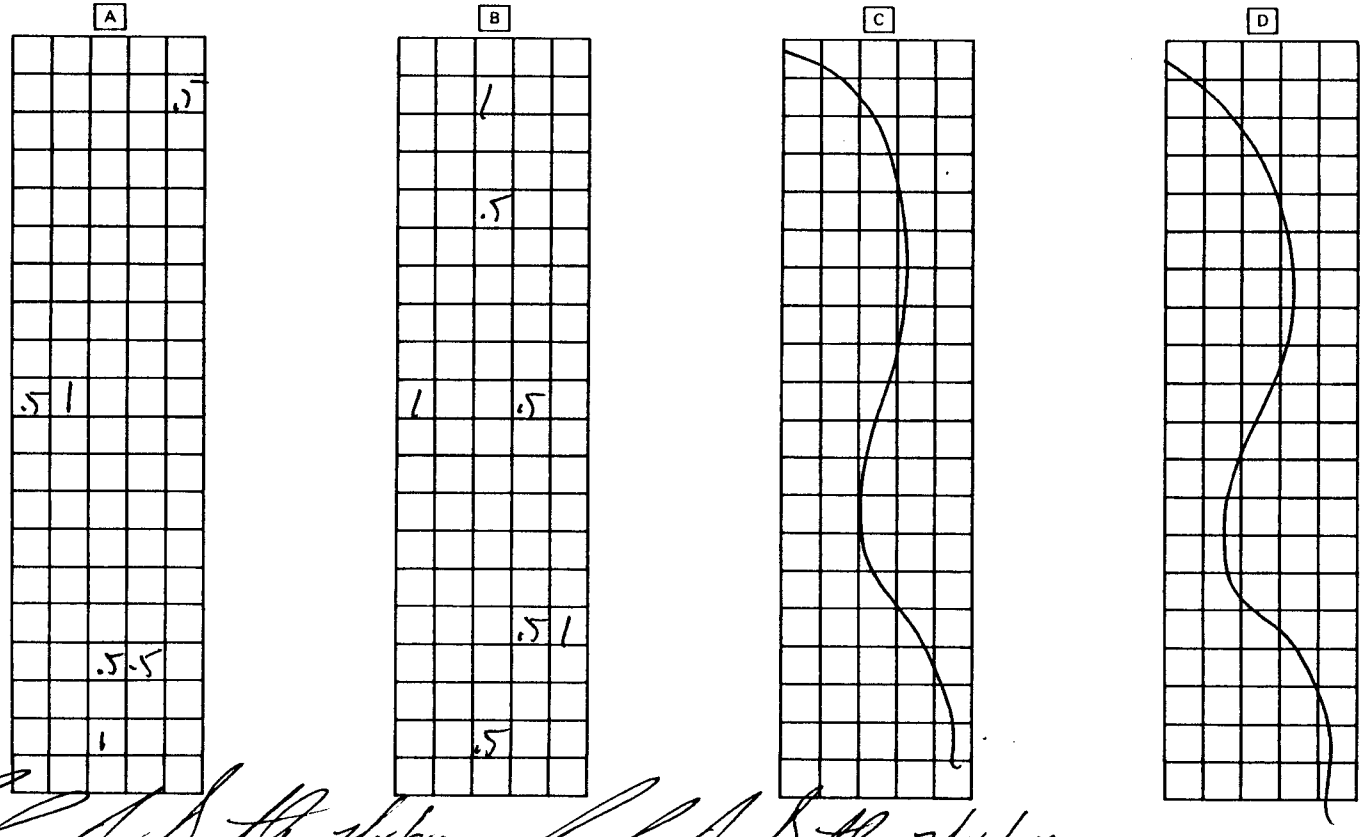
Field Area: (Check One) ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Paul A. Little 7/16/94 FIELD TECH. DATE

Paul A. Little 7/16/94 ANALYST DATE

"A" Sheet

Tracor Technology Resources

ASBESTOS PRE-ABATEMENT CHECKLIST

Building: New Executive Office Building Date: 7/15/94

Address: #725, 17 St. NW. Washington DC. 20006

Project Number/Description: ACM Spot removal from ceiling on 3rd floor, North East corner of building.

Company Performing Abatement Retro Environmental, Inc.

Abatement Company Supervisor on Job: Ron Tubongbanva Title: Supervisor

Building Occupied: ✓ Yes ___ No

Work-Site Preparation	Yes	No	Not Applicable
A. General			
1. Area non-accessible to general public	✓		
2. Sufficient fire/emergency exits	✓		
a. Fire/Emergency evacuation plan developed and reviewed with all abatement workers	✓		
3. Safety hazards reduced	✓		
a. Other safety aspects addressed:			
1. height	✓		
2. confined spaces	✓		
3. electrical	✓		
4. heat	✓		
5. cold	✓		
6. other	✓		
4. Work-Zone Area: Sq. Ft. ___ Cu. Ft. ___	Number of Rooms 22		
5. Pre-cleaning (Hepa/Wet Wipe)			
a. Moveable objects	✓		
b. Fixed objects	✓		
6. Temporary Waste Storage Area	✓		
7. Emergency Plan/Phone Numbers	✓		

Comments"

	Yes	No	Not Applicable
B. Signage			
1. Proper warning signs at entrances and exits	✓		
2. Dumpster Labeled		✓	

Comments:
All ACM bags will be removed offsite at completion of this week's asbestos abatement removal project.

C. Airlock-Decontamination Area			
1. Clean Room - 1st Stage			
a. Hangers/lockers, clothing storage provided	✓		
b. Double plastic flaps at entrance and exit	✓		
c. Asbestos bag for towel/cartridge disposal	✓		
2. Shower Area - 2nd Stage			
a. Showers operating	✓		
1) Hot Water Available	✓		
2) Cold Water Available	✓		
b. Shower waste water properly filtered	✓		
c. Double plastic flaps at entrance and exit	✓		
d. Clean, disposable towels available	✓		
e. Opaque Poly at exit/entrance	✓		
f. Soap, shampoo available	✓		
g. Disinfectant available	✓		
3. Equipment Room - 3rd Stage			
a. Double plastic flaps at entrance and exit	✓		
b. Asbestos bag for disposal of used suits	✓		

Comments:

	Yes	No	Not Applicable
D. Perimeter Barrier Preparation			
1. 6 ml plastic used	✓		
2. Floor plastic (2 layers)	✓		
3. Wall plastic	✓		
4. Proper sealing of:			
a. Doors	✓		
b. Windows	✓		
c. Ventilation Systems	✓		
1) Vents	✓		
2) Ducts	✓		
3) Grilles	✓		
4) System turned off	✓		
d. Pipes and conduit			✓
e. Light Fixtures			✓
f. Sprinkler heads			✓
g. Any other openings into work area			✓
h. Other misc. fixtures/gauges, etc.			✓
i. Penetrations through ceiling into work area			✓
5. Test Methods			
a. Smoke tubes	✓		
b. Visual	✓		

Comments:

The ACM removal project was conducted in ceiling area.

E. Asbestos Removal Equipment

1. H.E.P.A. Filtered Vacuums

a. Number of units 2/Qty

b. Type Aero - Clean Econo

c. H.E.P.A. filters present YES

d. Machine working hours N/A

e. Most recent date of H.E.P.A. filter change 6/29/94

2. H.E.P.A. Ventilation Units

   a. Number of units 20
   b. Type Aero-Clean Econo
   c. Operating ✓ Yes ___ No
   d. H.E.P.A. filters present ✓ Yes ___ No
   e. Exhausted out of work area ✓ Yes ___ No
   f. Machine working hours 1700
   g. Most recent date of H.E.P.A. filter change 3/20/94
   h. Negative pressure inside work area:

Measurements	Inches H20	Location
1 Time: 0430	0.032	Outside rm. 3018
2		
3		

3. Water hoses present ✓ Yes ___ No
4. Airless sprayers present ✓ Yes ___ No
5. Surfactant present ✓ Yes ___ No
6. Type of encapsulant to be used lock down 909
7. Any other equipment to be used N/A

Comments:

F. Worker Protection

1. Respiratory Protection
   a. Type of respirators to be used A half face North & MSA.
   b. Are respirators NIOSH/MSHA approved? ✓ Yes ___ No
2. Employee training within past 12 months? ✓ Yes ___ No
3. Medical Exam within past 12 months? ✓ Yes ___ No
4. If jurisdiction requires licensing, do all workers have proper identification to perform asbestos removal? ✓ Yes ___ No

5. Disposable Protective Clothing

- ✓ Full body coveralls
- ___ Hard hats
- ✓ Head covers
- ___ Eye protection
- ✓ Foot covers
- ✓ Gloves
- ___ Ear protection
- ___ Knee protection
- ___ Rubber boots

6. First aid kit on site? ✓ Yes ___ No

7. Adequate lighting? ✓ Yes ___ No

Comments:

G. Verification of Waste Disposal Site ✓ Yes ___ No

Name and Location: _____

H. Authorization to Proceed

Date: July 16, 1994 Time: 0445

Inspector: Carl A. Butler Title: I. H.

Signature: Carl A. Butler

Authorization given to: Ron Tubongbanua

Witness(es): Robert Phillips

July 15, 1994

New Executive Office Building
#725, 17 St. NW. Washington DC. 20006
3rd. floor North ~~East~~ corner of building.

Daily Report

1830 Arrival onsite at NOB, on arrival met, Mr. Harbert L. Pankey & Ron from Aetro.

1900 Arrival on 3rd floor, pre-inspected the abatement area.

1930 Six low volume pumps were calibrated at 2.5 LPM.

2100 Set-up of containment continues.

2130 Area Samples set-up, work on containment continues.

2300 Set-up continues.

2430 Set-up continues.

0210 Inside sample was started, Set-up continues.

0415 The asbestos abatement pre-work visual inspection was performed, Note some area needed to be retaped, & wall needed to be sealed.

0500 Removal started.

0600 Removal continues.

0700 Removal continues TTR I.H. Carl A. Sutles off site. July 16, 1994

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 3rd Floor Date: 7-15-94

Removal Contractor: Retro Time Started: 1900

Monitoring Contractor: TTR Time Stopped: 0700

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Matarial Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP "C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

John Golantoski For

Report Prepared By: Carl Butler Date: 7-15-94

"B" Sheet

Tracor Technology Resources

DAILY ASBESTOS ABATEMENT CHECKLIST

Building: New Executive Office Building Date: 7/16/94

Address: #725, 17 St. NW. Washington DC. 20006

Project Number/Description: ACM Spot removal from ceiling on 3rd floor, North East corner of Building.

Company Performing Abatement: Retro Environmental, Inc.

Abatement Company Supervisor on Job: Ron Tubangbawa Title: Supervisor

Work-Site Preparation	Yes	No	Not Applicable
A. Airlock - Decontamination Area	✓		
1. Clean Room - 1st stage			
a. Floors clean	✓		
b. Asbestos bag for disposal of towels and cartridges	✓		
c. Street clothes properly stored	✓		
d. Daily sign-in/sign-out sheet posted	✓		
2. Shower area - 2nd stage			
a. Shower operating	✓		
1. Hot water available	✓		
2. Cold water available	✓		
b. Shower waste water properly filtered	✓		
c. Opaque Poly at exit and entrance	✓		
d. Soap and shampoo available	✓		
e. Sanitized	✓		
3. Equipment area - 3rd stage			
a. No excess asbestos debris present	✓		
b. Contaminated suits and material placed in asbestos bag	✓		
4. Airlock perimeter plastic flaps intact	✓		
5. Proper signage at entrance	✓		

Tracor Technology Resources, Inc. a subsidiary of Tracor, Inc. 1601 Research Boulevard Rockville, Maryland 20850
Telephone 301: 984 2849 FAX 301: 984 2817

Comments:

	Yes	No	Not Applicable
B. Perimeter Barriers			
1. Perimeter plastic intact	✓		
2. Windows and doors sealed	✓		
3. Ducts, ventilation systems, pipes sealed	✓		
4. All other vertical and horizontal openings into area sealed	✓		

Comments:

C. Work Area Practices			
1. No hammers, saws or brooms	✓		
2. Material kept wet	✓		
3. Material bagged properly	✓		
4. Workers protective equipment:			
a. Full body disposable clothing intact	✓		
b. Proper foot protection	✓		
c. Proper NIOSH/MSHA approved respirators Type: A half face MSA & North	✓		
d. Hard hats		✓	
e. Eye protection		✓	
f. Gloves	✓		
g. Ear protection		✓	
h. Knee Protection/Elbow Protection			✓
i. Rubber boots			✓
5. Adequate lighting	✓		
6. Protective equipment for inspectors available	✓		
7. Emergency/fire exits marked and unobstructed	✓		

Comments:

	Yes	No	Not Applicable
D. Worker Decontamination and Work Habits			
1. Workers shower upon leaving work area	✓		
2. Contaminated full body suits bagged in dirty room	✓		
3. Disposable suits used once	✓		
4. No smoking in regulated area	✓		
5. No eating or drinking in regulated area	✓		

Comments:

E. H.E.P.A. Ventilation Units

1. Number in use 20

	Yes	No	Not Applicable
2. Pre-filters changed periodically	✓		
3. Negative Pressure Inside Work Area:	✓		

a. Measured with:

1. Magnahelic gauge ✓
2. Transducer

b. Location(s) and Negative Pressure Reading:

	Location	Inches H2O
#1	Beside rm. 3018	0.018
#2		
#3		

	Yes	No	Not Applicable
4. Is microtrap exhaust properly vented?	✓		
5. Is microtrap exhaust hose intact?	✓		

F. End of Work Day Procedures	Yes	No	Not Applicable
1. Material on floors bagged before leaving area	✓		
2. Bags of asbestos sealed and labeled	✓		
3. If bags are removed			
a. Properly decontaminated	✓		
b. Tightly sealed	✓		
c. Placed in drums			✓
4. Are microtraps left running overnight/ continuously through job end	✓		
5. Work area properly sealed off	✓		
6. Persons loading/unloading ACM are properly protected with disposable clothing and respirators	✓		

Comments:

G. Samples Taken

	Area	Personal
1. Number of Air Samples taken	10	
2. Number of Air Samples taken by Contractor	N/A	
3. Number of Bulk Samples taken	N/A	

4. Personal Sampling Results:

Sample Number	Worker Task	Results (f/cc)
N/A		

H. What is the daily job progress?
(Include amount of asbestos which was removed/encapsulated)

The scope of removal has been completed, & area encapsulated.

July 16, 1994

New Executive Office Building
#725 17 St. NW. Washington DC. 20006
3rd floor. North East corner of Building

Daily Report

1830 Arrival onsite, at NEOB.
1845 Met Herbert Pankey.
1850 Arrived on 3rd floor, met barry from TTR, he informed me that his quick fix wasn't working, so all samples will be analyzed by Carl A. Butler TTR/BCSE.

1900 Six low volume pumps were cabilated at 2.5 LPM & setu on 3rd floor.

1930 Clean-up continues.
2100 2nd Shift arrived onsite.
2230 Clean-up continues.
2400 Final inspection performed, additional was required on walls & horizontal surfaces.
2430 The area passed final visual inspection & was encapsulated.

0100 Final air monitoring were started.
0300 Samples were collected, & analyzed. The area passed Air Monitoring
0330 TTR Hygienist off site.

Carl A. Butler

Tracor Technology Resources

FINAL INSPECTION OF ASBESTOS REMOVAL

Building: New Executive Office Building Date: 7/18/94

Location: #725, 17 St. NW. Washington DC. 20006

Project Number/Description: ACM Spot removal, 3rd floor North East

Company Performing Abatement: Retro Environmental, Inc.

Building Supervisor on Job: Ron Tubongbanua Title: Supervisor

Foreman on Job: _____ Title: _____

TTR Inspector: Carl A. Butler Title: I. H.

	Yes	No	Not Applicable
A. Inside Work Area			
1. All surfaces have been wet cleaned.	✓		
2. All outer layers of plastic sheeting have been removed from walls and floors.	✓		
3. Visible residue/residual dust removed from:			
a. Floor	✓		
b. Horizontal surfaces	✓		
c. Pipes			✓
d. Ventilation equipment	✓		
e. Horizontal surfaces	✓		
f. Pipes			✓
g. Ducts			✓
h. Register/s	✓		
i. Lights	✓		
4. A thin coat of satisfactory encapsulating agent has been applied on to all surfaces including structural members and building components (if in specifications).	✓		
5. All contained waste has been removed from the work area in proper decontaminated containers.	✓		
6. Damage incurred has been repaired by workers.	✓		
7. Persons loading/unloading ACM are properly protected with disposable clothing and respirators.	✓		

Tracor Technology Resources

Comments:

ACM spot removal was performed on concreate deck 3rd floor N.E. corner, these area were encapsulated & New drop ceiling tiles were replaced. The plastic walls & floors were allso encapsulated.

	Yes	No	Not Applicable
B. Clearance Testing			
1. Agressive final air sampling?		✓	

if yes, describe method. _____

Comments:

Final Air Sample Results: Date/Time: 7/17/94 0310 AM

20. NOB, #3rd floor, Inside containment, N.E. corner: <0.002 f/cc
21. NOB, #3rd floor, Inside containment, N.E. corner: <0.002 f/cc
22. NOB, #3rd floor, Inside contain ment, N.E. corner: <0.002 f/cc
23. NOB, #3rd floor, Inside containment, N.E. corner: 0.002 f/cc

Given to: Ron Ubongbanua Date/Time: 7/17/94 0310 AM

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 648012

Location: 3rd Floor Date: 7/16/94

Removal Contractor: RETCO Time Started: 0700

Monitoring Contractor: TRACOR Time Stopped: 1900

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > ~~.08~~" 0.020"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	N/A	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No problems

Report Prepared By: B Hendler Date: 7/16/94

NEOB 6486 012 7/16/94

B. Vandler 3rd Floor

Daily Report

0700 On site, neg pressure -0.036, removing bags of fiberglass insulation and ceiling tile pieces.

0730 Retro finished removal of insulation/ceiling tiles. Union continues and Automatic starts bring equipment into barrier, neg press -0.0[illegible] all fine. Retro's start marking holes for supports.

0800 Work continues all fine neg pressure -0.025" Unable to record PT at 0 Samples due to supply prep equipment failure. Will repeat 3rd into and PT & 2nd sample sets.

0900 Neg pressure -0.024 set up samples, inspect barrier all fine. Retro [illegible] table brace. Retro & union continue - all fine

1000 Work continues all fine

1030 Retro begins removing light fixtures from barrier neg pressure -0.02[illegible]

1100 Work continues neg pressure -0.028" all fine.

1200 Automatic comingout for lunch, -0.028", all fine

1300 Work resumes by all trades, all fine

1400 Lights continue to be removed, drill holes in plaster ceiling outside barrier for hooks in hook -0.032" C.I.H. site visit

1500 Continue removing fixtures from barrier all fine -0.025

1530 Union complete, Mr Lerner begins inspection, removal of fixtures from barrier continues, automatic continues all fine

1600 Finished sample set. Automatic room ready for pressure test. Retro moving tables to seal tile into barrier. (meet Nor. ACM)

1700 Automatic running pressure test all fine neg press -0.024 Grunt installing new tiles

1800 Pressure test continues, ceiling tile work continues, all fine

1830 Pass pressure test ceiling tile work continues -0.020

1900 End of shift

9348

93-1045 Reviewed/Mailed
AUG 11 1993 T.S.
DC 010522
CANOFILE 930713

TRACOR

Tracor Technology Resources, Inc.
1601 Research Boulevard
Rockville, MD 20850-3173
301 251-4911

Project No.: 6410-029
Serial No.: JG-93-5222
ACT No.: P05554331

July 13, 1993

Ms. Normajean Eleazer
GSA, NCR, WPX, Room 2036
7th and D Streets, SW
Washington, DC 20407

Subject: PROGRESS REPORT III - ASBESTOS MONITORING - NEOB - 8TH FLOOR

Dear Ms. Eleazer:

This is a progress report on the asbestos abatement project that occurred in the New Executive Office Building on the 8th floor on May 14-16, June 4-6, 11-13, 18-20, and 25-27, 1993.

Personnel from Tracor Technology Resources, Inc. (TTR) monitored Retro Environmental, a licensed asbestos abatement contractor, removing approximately one hundred thirty five square inches of asbestos containing deck insulation per weekend, utilizing full containment procedures.

The Industrial Hygiene Consultant's responsibilities include conducting inspections of the worksite, assessing work practices, and collecting air samples. A total of ninety nine (99) air samples were collected. This project consisted of five (5) start up, fifteen (15) daily, four (4) CIH, and five (5) final inspection checklist reports.

The TTR Industrial Hygienist conducted daily air monitoring to determine work area fiber concentrations, and fiber levels outside the work area. In addition, the Industrial Hygienist conducted final inspections and clearance air testing. All final clearance air samples were below the required EPA level of 0.01 fibers per cubic centimeter (0.01 f/cc).

Air sample collection measurement and analysis followed the NIOSH 7400 Method A Rules. Air sampling pumps were calibrated both before and after collecting each sample set. Area samples were taken at ≥2.5 liters per minute, and all clearance samples were taken at 10.0 liters per minute.

Sample number 2A collected on May 15, 1993 exceeded 0.01 fibers per cubic centimeter (0.01 f/cc) due to insufficient sampling time. A sample volume of 337.5 liters was obtained.

Please find enclosed air sampling data, daily and final checklists, and all daily log notes.

If you should have any questions or need additional information, please call. We can be reached at (301) 251-4921.

Sincerely,

TRACOR TECHNOLOGY RESOURCES, INC.

Prepared by: _____
John Golombieski, III
Industrial Hygienist

Program Review: _____
Myrl Glunt

Technical Review: _____
Michael J. Larsen, CIH

JG/srp

Enclosures

Page # 1

LOG SHEET

Date: 5-14-93

Project Number: 6410-029-01

Industrial Hygienist: CHARLES E WILES JR

Abatement Contractor/Supervisor: RETRO ENVIRONMENTAL ROBERT GURECKI

Time	Remarks
7:00PM	C. WILES & RETRO ON SITE CHECK IN WITH SECURITY
	RETRO HAVE SIX WORKERS PLUS FOREMAN & SUPERINTENDANT
8:00	RETRO HANGING POLY IN SUITE 1000Z. 10ED ROOM
	10004, 02, 12, 10, 8.
10:30	MEN COMPLETED POLY HANGING BEGAN REMOVAL OF TILE
	NO ACM IN AREA
12:00	RETRO - BROKE - BREAK TIME
12:30	RETRO BEGAN SET UP ON 8TH FLOOR SUITE 8002
	SW. CORNER OF NEOB
2:00	RETRO CONTINUING TO POLY 8002 SUITE
3:00	RETRO TRYING TO GET H_2O FROM JANITOR CLOSET
	NO KEY AVAILABLE
4:30	INSPECTED AREA - POLY - SLOPPY BUT WILL DUE FLOOR
	NOT TIGHT. GAVE OK TO PROP CEILING AND SEAL ABOVE
	CEILING CRITICALS
5:00	CALIBRATED PUMPS & BEGAN SETTING PUMPS
5:30	COMPLETED PUMP SET UP
5:40	NEG AIR .028
6:15	MIKE LARSON ON SITE INSPECTED SITE
6:40	MIKE LARSON OFFSITE
6:45	BOB WELLS ON SITE
7:00	C. WILES OFFSITE

Page # 1

LOG SHEET

Date: 5/15/93

Project Number: 6410-029-01

Industrial Hygienist: B. Hells

Abatement Contractor/Supervisor: Retro / Jurecki

Time	Remarks
0645	IIR on site. Met with C. Wiles and transferred paperwork and checked pump locations. No work in ACA. Ceiling tile (CT) is down and out. Crew on break
0730	One man in ACA from Retro removing the 10 in square sections that the electricians are marking
0930	IIR checked the inside sample and found very few fibers
1030	2 Retro crew and 8 trades are in the ACA. Two wallets have been stolen. Security is checking
1145	IIR pulled area samples for analysation
1300	All others out of the ACA. IIR set 5 more area samples. First samples run showed low fibers
1530	Electricians have lights on inside. Neg air is up down to -0.03
1630	Bob Reever on site
1700	IIR inside ACA to see if critical's are holding. Retro cannot use glue and some pulling away of the tape happens. They got the one area sealed up ok.
1840	IIR pulled area samples and mounted same
1900	R. Brown on site. B Hells off site

Page #_____

LOG SHEET

Date: 5/15/93

Project Number: 641002901

Industrial Hygienist: Ken Brown

Abatement Contractor/Supervisor: ~~[illegible]~~ Retro Bob Gurecki

Time	Remarks
1845	TTR, Retro on site.
1945	TTR gets up to 4th floor.
1955	Ceiling Contractor Shows up to put in new Ceiling.
2000	I Set 1 Inside & One outside Sample because work Shift will be Short tonight.
	Crew: Robert Gurecki
	Tony Cruz
	Mercedes Diaz
	Gonzalo Surra
	Anastacio Surra
	Fernando N.
2130	Ceiling Crew is finished replacing tiles Retro is bagging out.
2200	I enter Containment for post abatement Visual Inspection and give crew OK to encapsulate.
2245	I Set final Samples. Then Read Areas.
2445	I Collect Final Samples prep and analyze. off Site @ 0120.

Page #_____

LOG SHEET

Date: 5/15/93

Project Number: 641002901

Industrial Hygienist: Ken Brown

Abatement Contractor/Supervisor: Retro Bob Gurecki

Time	Remarks			
	Sample#	Location	l	f/cc
	1A	Inside W/A inside decon	337.5	
	2A	Outside W/A Just outside decon	"	
	3A	Blank	—	0 fibers
	4A	Blank	—	0 fibers
	5A	Final North end of main Rm.	1200	
	6A	Final South end of main Rm.	"	
	7A	Final Southern most office	"	
	8A	Final East office	"	

Page # 1

LOG SHEET

Date: 4 JUNE 1993

Project Number:

Industrial Hygienist: SCOTT DUNN

Abatement Contractor/Supervisor: RETRO

Time	Remarks
~~0845~~ 1845	TTR ON SITE. CHECK IN EQUIPMENT AND BADGE-IN. ~~TRO~~ GSA
	REPRESENTATIVE ESCORTS HYGIENIST TO 8th FLOOR. NO CONTRACTORS
	ON SITE AT THIS TIME.
~~0930~~ 1930	RETRO ON 10th FLOOR. CHRIS HIGATOWER (Gen. CONTRACTOR), BOB + DAVE
	(RETRO) ON 10th FLOOR SETTING UP FOR SUSPENDED CEILING TILE REPLACEMENT
	NO ASBESTOS ON 10th FLOOR. WORKERS DON'T ANTICIPATED COMING
	DOWN HERE UNTIL MIDNIGHT.
2000-0600	WORKERS CONTINUE SETUP. MIKE LARSEN ARRIVES @ 6:00am
	AND PROVIDES INSPECTION, NEGATIVE PRESSURE AT -0.020 in H_2O.
0700	WORKERS INTENDS TO START. ONLY REMOVE PERIMETER CEILING TILES
	TO HANG CRITICAL BARRIER ABOVE CEILING TILE. ELECTRICIANS
	GO IN AND START REMOVING LIGHTS.
	TTR Relief hygienists ARRIVES. AIR SAMPLES SET UP
	FOR DAY SHIFT.

Page #_____

LOG SHEET

Date: 6-5-93

Project Number: 6410-029

Industrial Hygienist: CHARLES EWILES JR

Abatement Contractor/Supervisor: RETRO

Time	Remarks
0645	C. WILESON SITE CLEARED THROUGH SECURITY
700	MET WITH SCOTT DIXON NO PUMPS SET
	NOT READY - 10 MICROTRAPS RUNNING NEG AIR -016
7:30	SET PUMPS IN & AROUND AREA - INSPECTED RETRO
	CONTAINMENT - NEEDED A.C. CUTOFF - IN DAMPER
	ROOM - WAITING FOR SECRET SERVICE TO UNLOCK DOOR
7:40	RETRO ACHIEVED NEG AIR -022
10:30	NEG AIR DROPPED .008 NEATH IN
10:45	RETRO REPAIRED CONTAINMENT NEG AIR
	.022
12:00	RETRO BROKE FOR LUNCH
12:40	BEGAN SETUP OF NEXT SHIFT PUMPS
1:30	NEG AIR -016 FLAP FOLDED OPEN - RESET
	FLAPS - NEG AIR .021
2:00	NEG AIR 018 - RESET FLAP .021
3:00	RETRO AIR -031 - WATER FOUND ON SANITION FLOOR
	RETRO CLEAN UP
5:00	NEG AIR 020 AFTER FLAPS ARE SET
5:20	SPOKE WITH GRUMMAN SUPT. - PROGRESS GOOD - WILL
	COMPLETE IN NEXT SHIFT
	DAILY PUMP WILL COME OFF 6:20
6:20	BEGAN PULLING DAILY SAMPLES - NEG AIR -020
6:30	COMPLETING NEG AIR -020
6:45	BOB WELLS ON SITE
7:00	C. WILES OFFSITE

Page # 1

LOG SHEET

Date: 6-5-93

Project Number: 6410-029 NEOB 8th floor

Industrial Hygienist: B. Hall

Abatement Contractor/Supervisor: Retro / B.

Time	Remarks
1845	IIR on site. Relieved C. Wilson who went offsite.
1900	IIR checked the situation. Everything is just
	about completed, lights installed and
	sprinkler system in and tested. Retro will
	be going in to re-install the ceiling.
2000	IIR put area and inside samples out and
	prepared to analyze previous shift samples
	Neg air - .02 in
2100	Retro on clean up
2200	Retro still cleaning
2300	Retro ready for inspection
2330	IIR inspected and ok'd the HCA for
	encapsulation
2400	IIR set final clearance air samples
0300	IIR collected area samples and mounted
	same
0315	IIR collected final samples and analyzed
	them. All samples showed low fibers
	IIR informed Retro that they could
	return the area to use
0300	IIR off site

Page # 1

LOG SHEET

Date: June 11, 1993

Project Number:

Industrial Hygienist: Joseph D Eichenlaub

Abatement Contractor/Supervisor: RETRO / BOB / DAVE

	Time	Remarks
6/11/93	6:30 pm	ARRIVED AT NEOB
	7:00 pm	ARRIVE on the 8th Floor - (RETRO) DAVID AND BOB VIDEO TAPE
		the Removal area - RETRO WORKER head to the 10 floor
		(non-ASBESTOS) area to set-up poly barriers to control
		dust
	8:00 pm	SAME AS above
	9:00 pm	WORKER completed with the 10th Floor WORKER starting
		to prep 8235 AND 8236
	10:00 pm	WORKER setting up 8236 area no problems
	11:00 pm	SAME AS above
6/12/93	12:00 (AM)	WORKER take lunch
	1:00 (AM)	WORK area 8236 almost completed 8236 2/3 Complete
	1:30 (AM)	8236 area Completed
	2:00 (AM)	WORKER start setting up STAIR WELL CONTAINMENT to
		CARE DUCT
	3:00 (AM)	WORKERS have Completed set in [redacted] Suites 8236 AND 8235
	4:00 (AM)	WORKERS are building Decontamination unit and setting
		up negative pressure exhaust
	5:00 (AM)	No problems workers almost Completed with the Decontamination
		unit no problems encountered
	5:30	Decon Completed - WORKERS NEED to CORRECT Several small
		Items inside the CONTAINMENT - (Corrected)
	5:33	AIR SAMPLES are set-up Completed set-up 6:48
		NEGATIVE PRESSURE inside the CONTAINMENT AREA -0.030
		OK for WORKERS to TAKE DOWN outer Ceiling tile and Seal
		the CONTAINMENT above.

Page # 1

LOG SHEET

Date: 6-12-93

Project Number: 6410-0290

Industrial Hygienist: B Sells

Abatement Contractor/Supervisor: Retro/Dave

Time	Remarks
0645	IH B. Sells on site. Met M. Larsen at front desk and joined J. Eichenlaub on the 8th floor. Went to check on exhaust of ADF in 8th floor #2 stairwell. Retro will be drilling on the 6th + 5th floor landings today.
	Problems: stairwell #2 on the 8th floor needs to be cleared of the ADF exhaust tube
	Stairwell where drilling takes place needs to be signed off
0730	M. Larsen + J. Eichenlaub off site.
	Retro reports that they will be wet drilling in the stairwells. No poly will be needed on the walls
0750	Neg air still not down to -0.02 in. Only down to -.016
0915	Check the mini containments on the 9th, 8th, 7th + 6th floors in stairwell #4 for the hole boring
1000	IH retrieved 2 inside samples and checked the WA inside. No problems. Neg air -.028 in
1230	IH retrieved area samples. The flexible exhaust in stairwell #2 has not been taken care of
1300	The area outside the decon at 8235 was overloaded because of the pipefitters working in the area and spraying material on the pipe

Page # #

LOG SHEET

Date: 6/12/93 7:00pm – 7:00AM 6/13/93

Project Number: 6410-029

Industrial Hygienist: Joseph J Echevarria

Abatement Contractor/Supervisor: RETRO

Time	Remarks
6:30pm	ARRIVED AT NEDB AND ESCORTED to the 8th Floor
7:00pm	talk to the RETRO and the Sampler System has been set-up - the pump and tubing for the 2hr pressure test
8:00 pm	Ceiling tile Contractor placing Ceiling tiles
9:00 pm	SAME AS above no problems
10:00 pm	Workers almost complete with ceiling tile replacement negative pressure back up to -0.02 - had dropped earlier because the Cutrooms were taken down in 8236 to replace ceiling tiles - RETRO INSIDE cleaning behind the Ceiling tile replacement Contractor
10:30pm	RETRO WORKER WORKER ARE bagging out - drop poly and rags WORKER NEED to clean the Hallway and part of 8236
11:00	RETRO Final Cleaning Containment
11:05	RETRO Wont's Final Visual - Several areas of the poly needed wet-wiped and some of the floor needed HEPA vacuumed
11:30	Final Visual passed RETRO encapsulating
12:05	Final Air Samples Set-up.
2:05	Final Air Samples Collected
2:45	Final Air Sample Results 0.01 F/cc

Page # 1

6/18/93 6/19/93

LOG SHEET

7:00pm — 7:00 Am

Date: June 18, 1993

Project Number: 6410-029

Industrial Hygienist: Joseph D Eichenlaub

Abatement Contractor/Supervisor: RETRO

Time	Remarks
6:30(pm)	Arrived at NEDB
7:10(pm)	Arrived up chris RETRO workers on the 10th floor setting up Cost Covers
8:00(pm)	Same as above
9:00(pm)	Worker moving the Desks and Drawers for Containment area
10:00(pm)	Worker clean-housing only 8234 and 8228
11:00 pm)	Workers take lunch
6/19 12:00(Am)	No problems Workers building Containment area 8234/8223
1:00(Am)	No problems workers have most of the Containment completed in 8234
2:00(Am)	Containment Completed in Room 8234 workers have 3/4 of 8232 to complete as well as the Decontamination unit
3:00(Am)	Workers building decontamination unit negative pressure exhaust units are set-up
3:30	Containment passes Initial Visual inspection RETRO only need to establish negative pressure
4:00	Air Samples are set-up
5:00	Critical Barrier above the Ceiling Completed Negative Pressure -0.024 - RETRO workers start Ceiling tile Removal
5:30	Mike Larsen arrived for walk thru.
6:00	Workers Complete with Ceiling tile Removal
7:00	End Shift no problems encountered

Page # 2

LOG SHEET

Date: 6-19-93

Project Number: 6410-029

Industrial Hygienist: Golombinski

Abatement Contractor/Supervisor: Retro / Dave + Bob

Time	Remarks
0700	Relieve Joe Eichenlaub from his shift. Pipe fitters are suiting up to enter the containment.
0715	Neg Pressure dropped to -.008 so I informed Bob + he suited up + turned on 3 more traps / pressure back up to .028 0725 hrs / We only had two traps running
0800	Pipe fitters ~~going~~ taking pipe into containment
0900	Retro vaccuming off light units inside containment to bring out + down to trucks.
0920	Set up sample #6 at 10.0 Liter a minute outside of clean unit while lights are be transferred.
1020	Crews are taking a morning break
1120	Began collecting 1st set of samples
	Electricians suiting up properly to enter containment.
1230	Sprinkler Crew should have their water test on by 1:30 but the fire crew is not scheduled to come in until 7:00pm
1300	Retro + County held meeting / Dave prepping + reading samples
1415	Sprinkler crew still has their water test on + their work is complete.
1515	Wittert Electric has passed and now just have to wait on Coakley

Page # 3

LOG SHEET

Date: 6-19-93

Project Number: 6410-029

Industrial Hygienist: Golombieski

Abatement Contractor/Supervisor: Retro / Dave Gurecki

Time	Remarks
1530	pulled sample #14, will prep + read
1630	Everything is fine just waiting for Koakley
	to arrive + do the drop ceiling.
1730	4 guys from Koakley arrived on site
	Chris (Grunly) feels they will be done with
	the tile by about 8:00
1800	Crew beginning to take tile into containment

Page #_____

LOG SHEET

Date: June 19, 1993

Project Number: 6410-029

Industrial Hygienist: Joseph D Eichenlaub

Abatement Contractor/Supervisor: RETRO

Time	Remarks
6:30	ARRIVE on Site talk with John (TRACOR)
	everything is Completed - The Ceiling tile
	WORKER are inside replacing tiles
8:00	tile Replacement Completed and inspected
	by HERB & Cris
8:30	RETRO WORKER are inside Cleaning the last
	area (RETRO WORKERS were Cleaning up after the Ceiling
	tile WORKER as they Completed parts of the Suites
8:32	Final Visual inspection
8:47	Final Visual inspection Passes WORKERS only has
	Two areas which needed Re-Cleaned WORKERS encapsulate
9:25	Final air Sampler Set-up
11:25	Final air Sample Collection
12:00	Final air Sample results <0.01 f/cc
12:30	Leaving Site

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

06/24/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
6410029	221893	1	05/15/93	OUT	< 0.005
6410029	221993	2	05/15/93	OUT	< 0.005
6410029	222093	3	05/15/93	OUT	< 0.005
6410029	222193	4	05/15/93	OUT	< 0.005
6410029	222293	5	05/15/93	OUT	< 0.005
6410029	222393	6	05/15/93	OUT	BLANK= 0.00
6410029	222493	7	05/15/93	OUT	BLANK= 0.00
6410029	222593	8	05/15/93	INS	< 0.020
6410029	222693	9	05/15/93	OUT	< 0.005
6410029	222793	10	05/15/93	OUT	< 0.005
6410029	222893	11	05/15/93	OUT	< 0.005
6410029	222993	12	05/15/93	OUT	< 0.005
6410029	223093	13	05/15/93	OUT	< 0.005

KEY: BKG BACKGROUND
FIN FINAL
PER PERSONAL
GVB GLOVE BAG
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY
MICHAEL L. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

05/24/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
641002901	186593	1	05/15/93	INS	0.024
641002901	186693	2	05/15/93	OUT	< 0.015
641002901	186793	3	05/15/93	BLK	BLANK= 0.00
641002901	186893	4	05/15/93	BLK	BLANK= 0.00
641002901	186993	5	05/15/93	FIN	< 0.004
641002901	187093	6	05/15/93	FIN	< 0.004
641002901	187193	7	05/15/93	FIN	< 0.004
641002901	187293	8	05/15/93	FIN	< 0.004

KEY: BKG BACKGROUND
FIN FINAL
PER PERSONAL
GVB GLOVE BAG
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY
MICHAEL L. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

06/08/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
6410029	199693	1	06/05/93	INS	0.006
6410029	199793	2	06/05/93	OUT	< 0.005
6410029	199893	3	06/05/93	OUT	< 0.005
6410029	199993	4	06/05/93	OUT	< 0.005
6410029	200093	5	06/05/93	OUT	< 0.005
6410029	200193	6	06/05/93	OUT	BLANK= 0.00
6410029	200293	7	06/05/93	INS	0.007
6410029	200393	8	06/05/93	OUT	< 0.005
6410029	200493	9	06/05/93	OUT	< 0.005
6410029	200593	10	06/05/93	OUT	< 0.005
6410029	200693	11	06/05/93	OUT	< 0.005
6410029	200793	12	06/05/93	OUT	< 0.005
6410029	200893	13	06/05/93	OUT	BLANK= 0.00
6410029	200993	14	06/05/93	INS	< 0.020
6410029	201093	15	06/05/93	OUT	< 0.005
6410029	201193	16	06/05/93	OUT	< 0.005
6410029	201293	17	06/05/93	OUT	< 0.005
6410029	201393	18	06/06/93	OUT	< 0.005
6410029	201493	19	06/06/93	OUT	< 0.005
6410029	201593	20	06/06/93	FIN	< 0.004
6410029	201693	21	06/06/93	FIN	< 0.004
6410029	201793	22	06/06/93	FIN	0.004
6410029	201893	23	06/06/93	FIN	< 0.004
6410029	201993	24	06/06/93	OUT	BLANK= 0.00

KEY: BKG BACKGROUND
FIN FINAL
PER PERSONAL
GVB GLOVE BAG
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL L. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

06/21/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
641002901	216693	1	06/12/93	INS	< 0.010
641002901	216793	2	06/12/93	INS	< 0.010
641002901	216893	3	06/12/93	OUT	< 0.005
641002901	216993	4	06/12/93	OUT	< 0.005
641002901	217093	5	06/12/93	OUT	< 0.005
641002901	217193	6	06/12/93	OUT	< 0.005
641002901	217293	7	06/12/93	OUT	OVERLOADED
641002901	217393	8	06/12/93	OUT	0.007
641002901	217493	9	06/12/93	INS	0.005
641002901	217593	10	06/12/93	OUT	< 0.002
641002901	217693	11	06/12/93	OUT	< 0.004
641002901	217793	12	06/12/93	OUT	< 0.004
641002901	217893	13	06/12/93	OUT	BLANK= 0.00
641002901	217993	14	06/12/93	OUT	BLANK= 0.00
641002901	218093	15	06/13/93	FIN	< 0.004
641002901	218193	16	06/13/93	FIN	< 0.004
641002901	218293	17	06/13/93	FIN	< 0.004
641002901	218393	18	06/13/93	FIN	< 0.004

KEY: BKG BACKGROUND
FIN FINAL
PER PERSONAL
GVB GLOVE BAG
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL L. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

06/21/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
641002901	214893	1	06/19/93	OUT	0.007
641002901	214993	2	06/19/93	OUT	< 0.004
641002901	215093	3	06/19/93	INS	0.008
641002901	215193	4	06/19/93	OUT	< 0.004
641002901	215293	5	06/19/93	OUT	< 0.004
641002901	215393	6	06/19/93	OUT	0.007
641002901	215493	7	06/19/93	OUT	BLANK= 2.00
641002901	215593	8	06/19/93	OUT	BLANK= 0.00
641002901	215693	9	06/19/93	OUT	< 0.005
641002901	215793	10	06/19/93	OUT	< 0.005
641002901	215893	11	06/19/93	OUT	< 0.005
641002901	215993	12	06/19/93	OUT	< 0.005
641002901	216093	13	06/19/93	INS	0.008
641002901	216193	14	06/19/93	OUT	0.004
641002901	216293	15	06/19/93	FIN	< 0.004
641002901	216393	16	06/19/93	FIN	< 0.004
641002901	216493	17	06/19/93	FIN	< 0.004
641002901	216593	18	06/19/93	FIN	< 0.004

KEY: BKG BACKGROUND
FIN FINAL
PER PERSONAL
GVB GLOVE BAG
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY
MICHAEL L. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

06/28/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
6410029	223293	1	09/26/93	OUT	0.006
6410029	223393	2	09/26/93	OUT	VOIDED
6410029	223493	3	09/26/93	OUT	< 0.004
6410029	223593	4	09/26/93	OUT	< 0.004
6410029	223693	5	09/26/93	OUT	0.003
6410029	223793	6	09/26/93	INS	0.011
6410029	223893	7	09/26/93	OUT	BLANK= 0.00
6410029	223993	8	09/26/93	OUT	BLANK= 0.00
6410029	224093	9	09/26/93	OUT	0.006
6410029	224193	10	09/26/93	OUT	< 0.004
6410029	224293	11	09/26/93	OUT	< 0.004
6410029	224393	12	09/26/93	OUT	< 0.004
6410029	224493	13	09/26/93	OUT	0.004
6410029	224593	14	09/26/93	INS	0.019
6410029	224693	15	06/27/93	FIN	< 0.004
6410029	224793	16	06/27/93	INS	< 0.004
6410029	224893	17	06/27/93	INS	< 0.004
6410029	224993	18	06/27/93	INS	< 0.004

KEY:
- BKG BACKGROUND
- FIN FINAL
- PER PERSONAL
- GVB GLOVE BAG
- INS INSIDE CONTAINMENT
- OUT OUTSIDE CONTAINMENT

APPROVED BY

MICHAEL L. EDWARDS
LABORATORY MANAGER

Tracor Technology Resources — **Air Sample Sheet**

Project # 6,4,1,0,0,2,9,0,1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	221893	01	L	2.5	2.5	2.5	5:12	1136	384	960	8	100	0	8	<0.005
A	Notes: NORTH OF 3 STAGE Reception Area														
B	221993	02	Z	2.5	2.5	2.5	5:15	1139	384	960	4	100	0	4	<0.005
B	Notes: NORTH SIDE CONTAIN IN WEST OFFICE														
C	222093	03	K	2.5	2.5	2.5	5:17	1141	384	960	2.5	100	0	2.5	<0.005
C	Notes: NORTH SIDE CONTAIN IN SECOND OFFICE														
D	222193	04	01	2.5	2.5	2.5	5:20	~~1150~~ 1144	384	960	6	100	0	6	<0.005
D	Notes: NORTH WEST SIDE Room 8012														

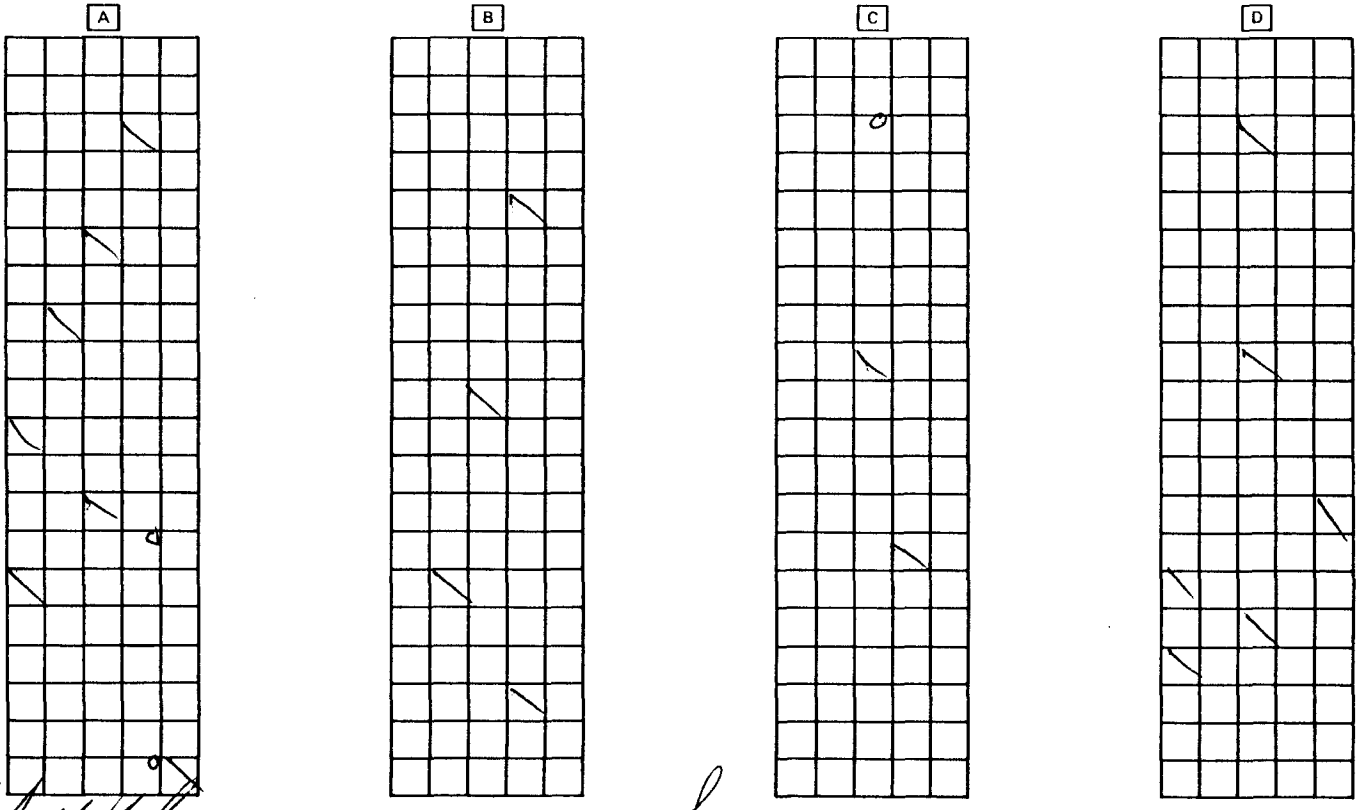
Field Area: (Check One)
- ☑ .00785
- ☐ .00754
- ☐ .00724
- ☐ .00801
- ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- ☑ 25 mm (385 sq mm)
- ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



FIELD TECH. — DATE 5-15-93

ANALYST — DATE 5/15/93

Tracor Technology Resources — **Air Sample Sheet**

Project # 6,4,1,0,2,9,0,1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	222293	05	N1	2.5	2.5	2.5	5:26	1150	384	960	2	100	0	2	0.005
A	Notes: 8th FLR SOUTH STAIRWELL BY MICROTRAP EXHAUST STAIRWELL #4														
B	222393	06									0	100	0		
B	Notes: BLANK														
C	222493	07									0	100	0		
C	Notes: BLANK														
D	~~222593~~														
D	Notes:														

Field Area (Check One): ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

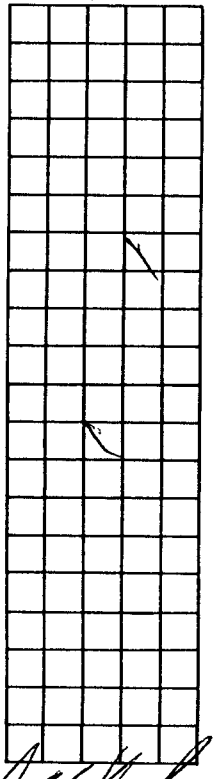
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

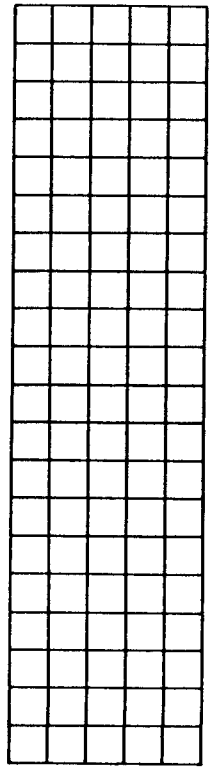
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A



B



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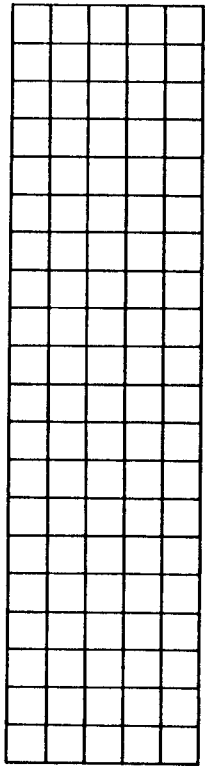

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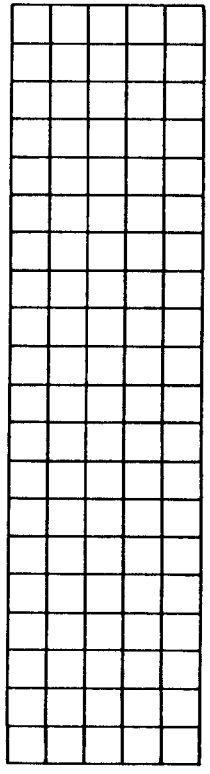


FIELD TECH. — DATE 5-15-93

ANALYST — DATE 5/15/93

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6410-029-01

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	222593	08	17	2.5	2.5	2.5	0742	0918	96	240	5.5	100	0	5.5	0.020
A	Notes: Inside WA on 8th floor SE area NEOB														
B	222693	09	16	2.5	2.5	2.5	1204	1828	384	960	4.5	100	0	4.5	<0.005
B	Notes: Area - Office adjacent to ACA in NW														
C	222793	10	1	2.5	2.5	2.5	1206	1830	384	960	3	100	0	3	<0.005
C	Notes: Area - Main office area W of ACA on the brown file cabinet														
D	222893	11	403	2.5	2.5	2.5	1209	1833	384	960	8.5	100	0	8.5	<0.005
D	Notes: Area - On door 8010 8' N of decon														

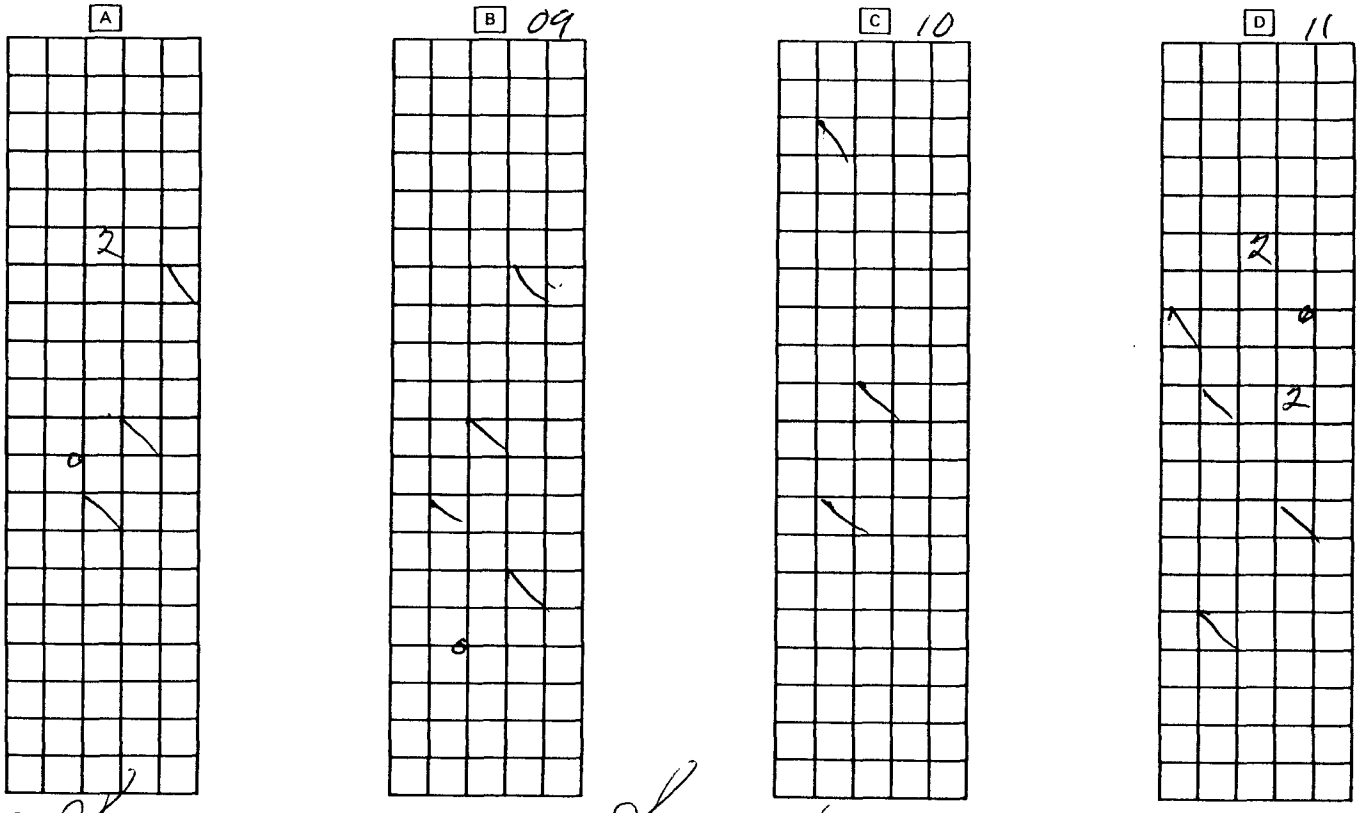
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



B. Stells 5/15/93
FIELD TECH. DATE

B Stells 5/15/93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6410-029

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	222993	12	61	2.5	2.5	2.5	1211	1835	384	960	7.5	100	0	7.5	<0.005
A	Notes: Area - In 8012 on cabinet														
B	223093	13	M	2.5	2.5	2.5	1215	1839	384	960	5.5	100	0	5.5	<0.005
B	Notes: Area - SE stairwell at AFD exhaust														
C															
C	Notes:														
D															
D	Notes:														

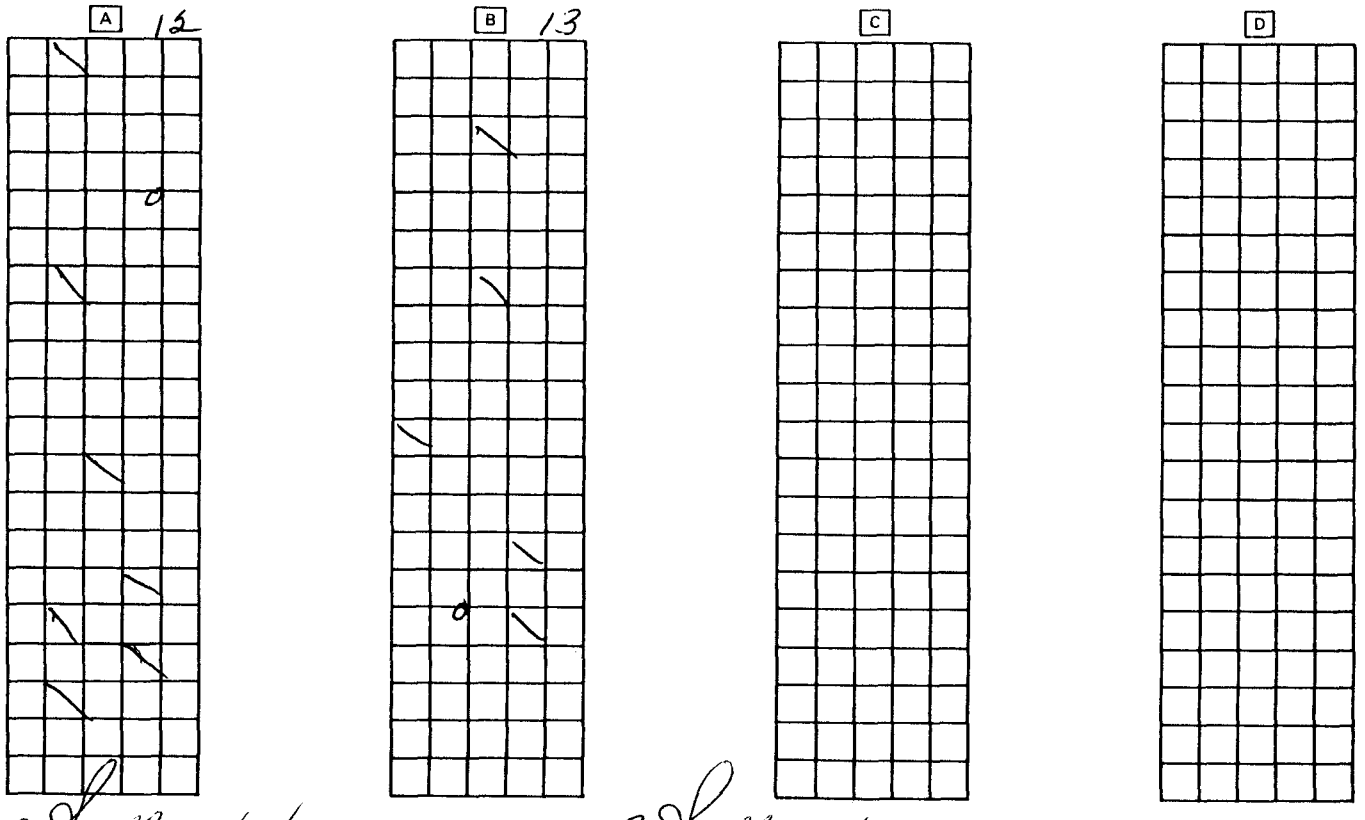
Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



B Stells 5/15/93
FIELD TECH. DATE

B Stells 5/15/93
ANALYST DATE

Tracer Technology Resources — Air Sample Sheet

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6.4.10.0.2.9.0.1.1

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	186593	1A	92-13	2.5	2.5	2.5	2005	2220	135	337.5	16.5	100	0	16.5	0.024
A	Notes: Inside W/A Just in Side Decon														
B	186693	2A	92-11	2.5	2.5	2.5	2005	2220	135	337.5	3	100	0	3	0.015
B	Notes: Out Side W/A Just outside Decon														
C	186793	3A										100	0		
C	Notes: – Blank –														
D	186693	4A										100	0		
D	Notes: – Blank –														

Field Area (Check One): ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A: 16.5 / 100

B: 3 / 100

C: 0 / 100

D: 0 / 100

Ken Braun 5/15/93
FIELD TECH. DATE

Ken Braun 5/15/93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6,4,1,0,0,2,9,0,1,1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	186993	5A		10	10	10	2245	2445	120	1200	3.5	100	0	3.5	<0.004
A	Notes: Final North end of main Rm.														
B	187093	6A		10	10	10	2245	2445	120	1200	2	100	0	2	<0.004
B	Notes: Final South end of main Rm.														
C	187193	7A		10	10	10	2245	2445	120	1200	7.5	100	0	7.5	<0.004
C	Notes: Final Soltthern Most office														
D	187293	8A		10	10	10	2245	2445	120	1200	5	100	0	5	<0.004
D	Notes: Final East office.														

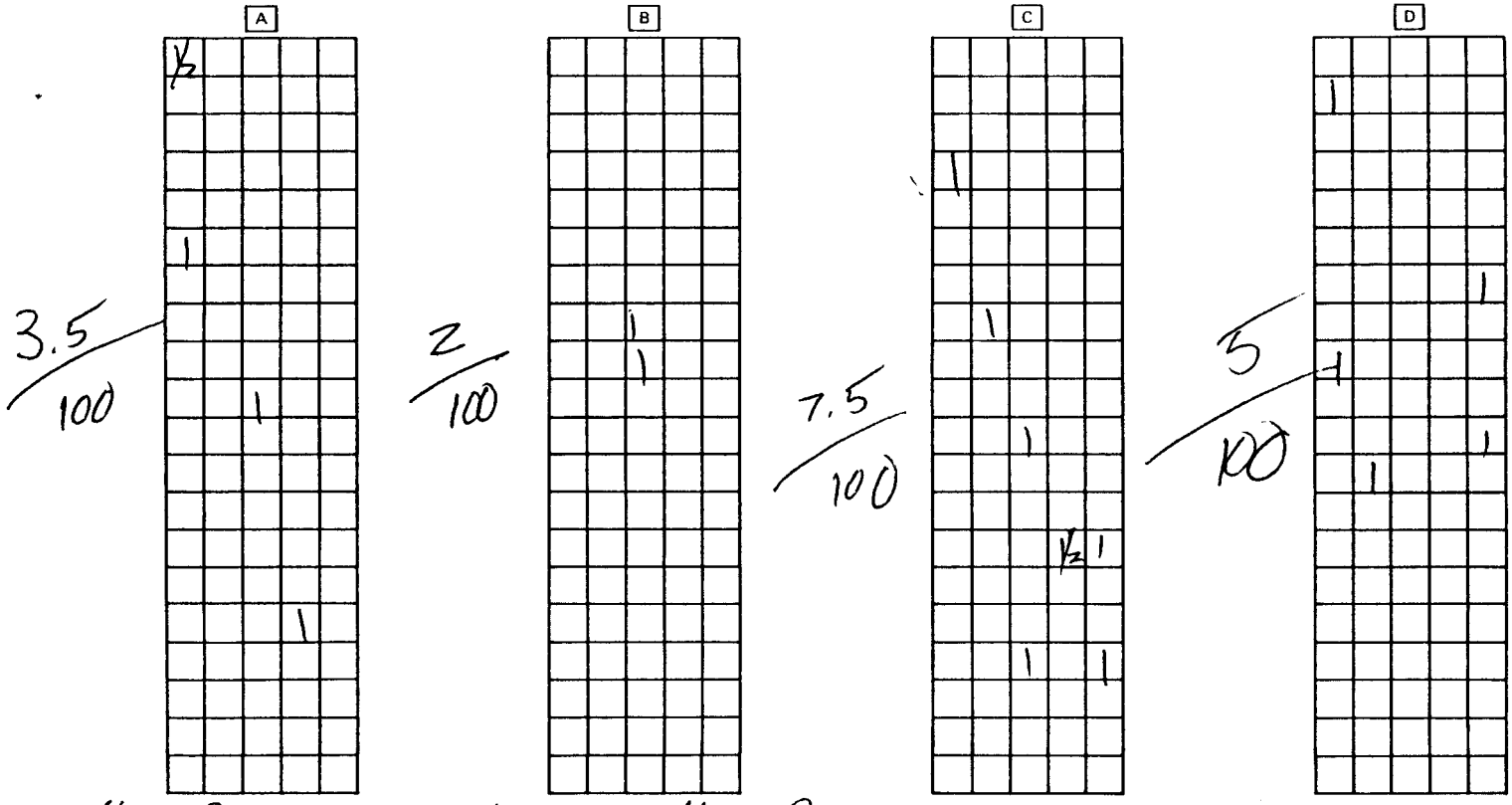
Field Area (Check One): ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Ken Brown 5/15/93 — FIELD TECH. DATE

Ken Brown 5/15/93 — ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6,4,1,0,0,7,9

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	199693	1	5341	2.5	2.5	2.5	7:18	2:33	435	1087.5	12.5	100	0	12.5	0.006
A	Notes: INSIDE AREA SOUTH SIDE OF CONTAIN IN HALL 8th FLOOR														
B	199793	2	5258	2.5	2.5	2.5	7:20	2:32	432	1080	4.5	100	0	4.5	<0.005
B	Notes: OUTSIDE 3 STAGE DECON IN HALL 8th FLOOR														
C	199893	3	5965	2.5	2.5	2.5	7:23	2:31	428	1070	4	100	0	4	<0.005
C	Notes: 15' SOUTH OF DECON IN HALL 8th FLOOR														
D	199993	4	5112	2.5	2.5	2.5	7:30	2:43	433	1082.5	3	100	0	3	<0.005
D	Notes: NORTH SIDE OF CONTAINMENT IN HALL 8th FLOOR														

Field Area: (Check One) ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A 1 — 12.5/100

B 2 — 4.5/100

C 3 — 4/100

D 4 — 3/100

FIELD TECH. 6-5-93 DATE

ANALYST 6-5-93 DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6,4,1,0,0,3,9,

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	200093	5	FG3	2.5	2.5	2.5	7:33	2:43	~~340~~ 430	1075	3	100	0	3	<0.005
A	Notes: IN NORTH STAIRS #2 MICROTRAP EXHAUST 8th FLOOR														
B	200193	6									0	100			
B	Notes: BLANK														
C	200293	7	E	3.0	3.0	3.0	12:43	6:26	342	1026	14	100	0	14	0.007
C	Notes: INSIDE CONTAINMENT SOUTH SIDE CONTAINMENT IN HALL 8th FLOOR														
D	200393	8	K	3.0	3.0	3.0	12:45	6:26	340	1020	8	100	0	8	<0.005
D	Notes: OUTSIDE DECON IN HALL BY SHOWER 8th FLOOR														

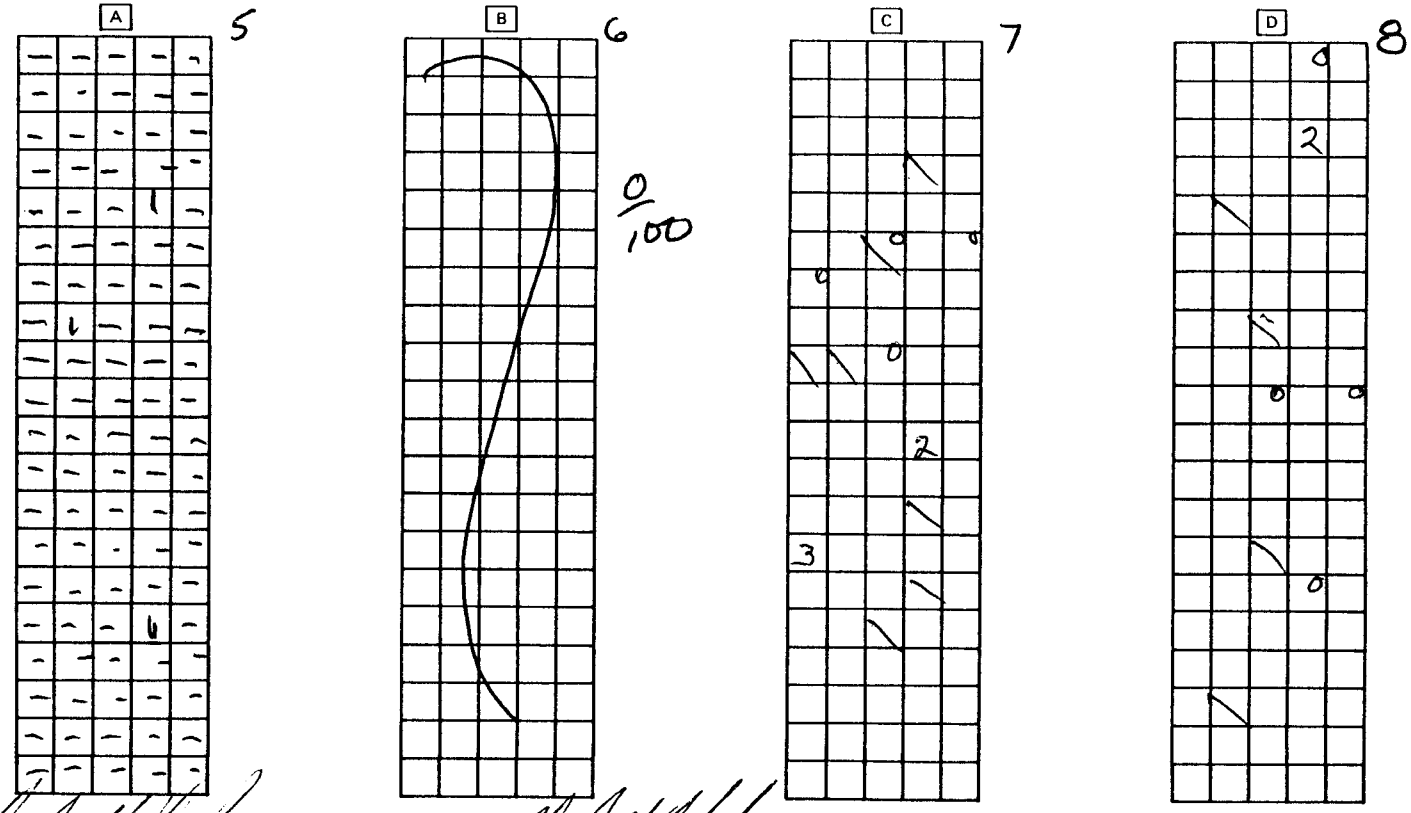
Field Area: (Check One) ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



FIELD TECH. 6-5-93 DATE

ANALYST 6-5-93 DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 641 0.219

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	200493	9	L	3.0	3.0	3.0	12:47	6:25	338	1014	3.5	100	0	3.5	<0.005
A	Notes:	~~NORTH~~ SOUTH SIDE OF CONTAINMENT 15' FROM DECON													
B	200593	10	O	3.0	3.0	3.0	12:53	6:20	326	978	1	100	0	1	<0.005
B	Notes:	STAIRWELL #2 BY MICROTRAP EXHAUST													
C	200693	11	N1	3.0	3.0	3.0	12:55	6:19	324	972	2	100	0	2	<0.005
C	Notes:	AT ENTRANCE TO ROOM 8235 NORTH SIDE OF CONTAINMENT													
D	200793	12	O	3.0	3.0	3.0	12:40	6:24	343	1029	3	100	0	3	<0.005
D	Notes:	XEROX ROOM 8TH FLOOR													

Field Area: (Check One)
- ☑ .00785
- ☐ .00754
- ☐ .00724
- ☐ .00801
- ☐ .00817

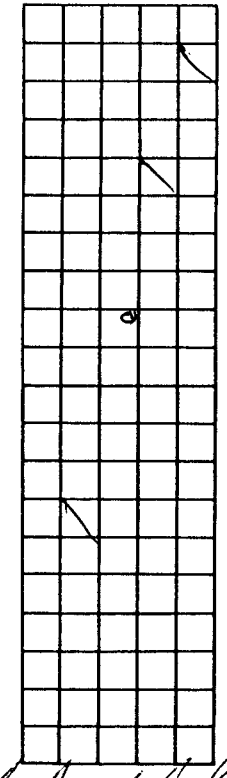
Filter Size
- ☑ 25 mm (385 sq mm)
- ☐ 37 mm (855 sq mm)

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A



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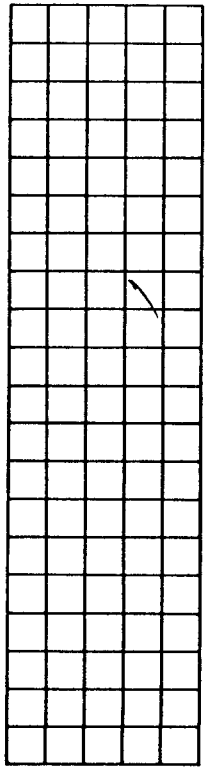

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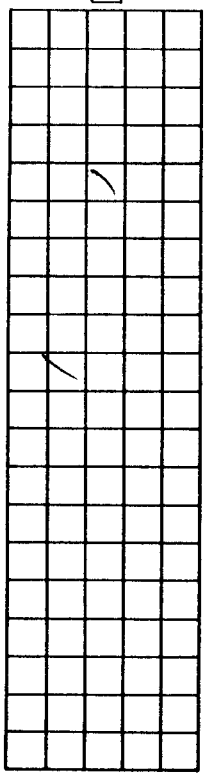

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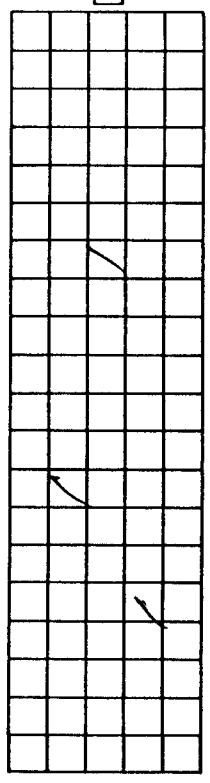


6-5-93
FIELD TECH. DATE

B. Wells 6-5-93
ANALYST DATE

Tracor Technology Resources **Air Sample Sheet**

Project # 641P029

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data Total Count	Count Data Fields Counted	Count Data Blank Count	Count Data Net Count	Fibers Per cc
A	200893	13									0	100	0		
A	Notes:	BLANK													
B															
B	Notes:														
C															
C	Notes:														
D															
D	Notes:														

Field Area: (Check One)
- ☑ .00785
- ☐ .00754
- ☐ .00724
- ☐ .00801
- ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- ☑ 25 mm (385 sq mm)
- ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

B

C

D

FIELD TECH. 6-5-93 DATE

ANALYST 6-5-93 DATE

Tracor Technology Resources — Air Sample Sheet

Project # 6410-029

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data Total Count	Count Data Fields Counted	Count Data Blank Count	Count Data Net Count	Fibers Per cc
A	200993	14	61	2.5	2.5	2.5	1923	2059	96	240	8.5	100	0	8.5	0.02
A	Notes: Inside WA 8th floor NW														
B	201093	15	17	2.5	2.5	2.5	1925	0149	384	960	8.5	100	0	8.5	<0.005
B	Notes: decon CR														
C	201193	16	M	2.5	2.5	2.5	1927	0151	384	960	4	100	0	4	<0.005
C	Notes: Area - hall on 8210 door														
D	201293	17	34	2.5	2.5	2.5	1932	0156	384	960	—	100	0	—	<0.005
D	Notes: Area - AFD exhaust														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

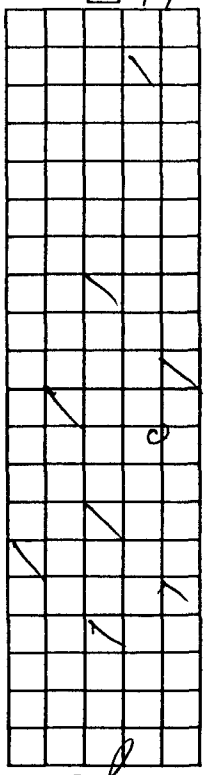
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A 14



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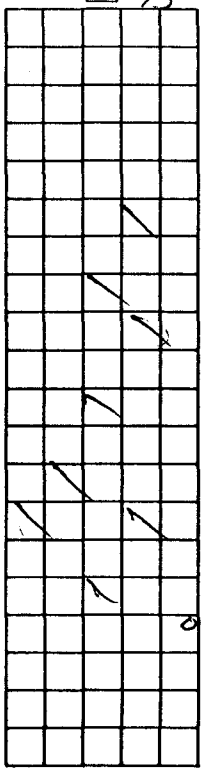
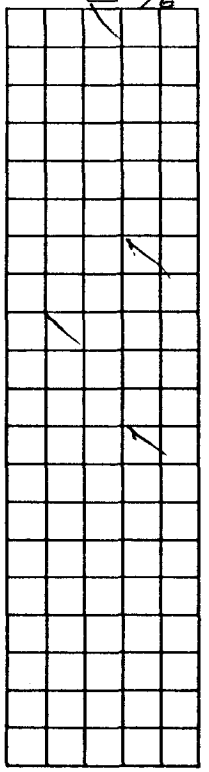
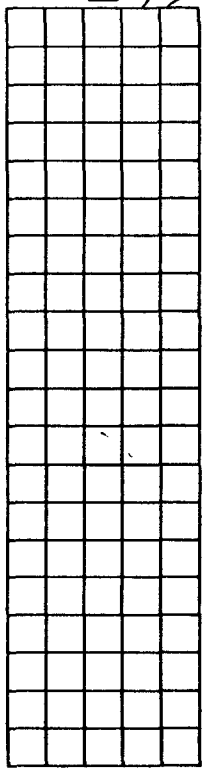


C 16



D 17



B. Stells 6-5-93
FIELD TECH. DATE

B. Stells 6-5-93
ANALYST DATE

Tracor Technology Resources

Air Sample Sheet

Project # 6410-039

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	201393	18	403	2.5	2.5	2.5	1936	0200	384	960	2	100	0	2	<0.005
A	Notes: Area- elevator lobby														
B	201493	19	1119	10	10	10	1942	2118	96	960	1	100	0	1	<0.005
B	Notes: Area- hall at 8013														
C	201593	20	627	10	10	10	1215	0215	120	1200	3	100	0	3	0.004
C	Notes: Final- 8th floor NW														
D	201693	21	473	10	10	10	1217	0217	120	1200	6	100	0	6	0.004
D	Notes: Final- 8th floor NW														

Field Area: (Check One)
- ☒ .00785
- ☐ .00754
- ☐ .00724
- ☐ .00801
- ☐ .00817

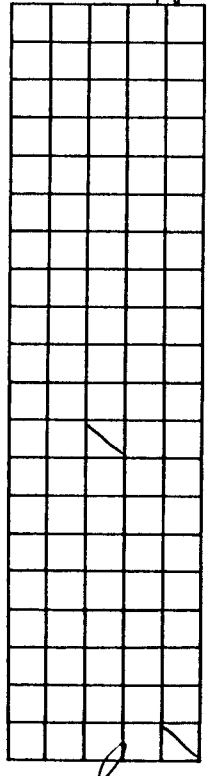
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- ☒ 25 mm (385 sq mm)
- ☐ 37 mm (855 sq mm)

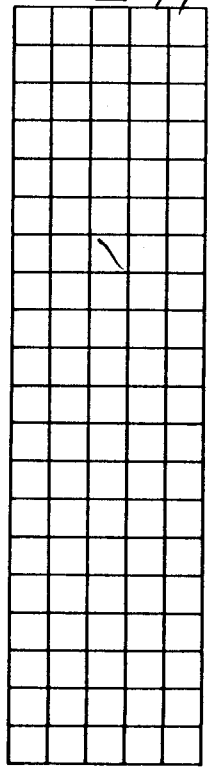
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

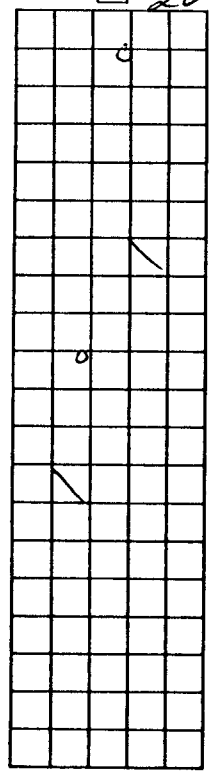
A 18



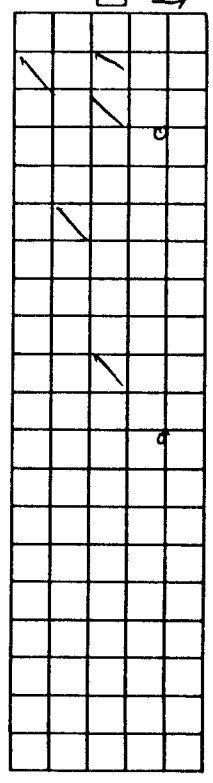
B 19



C 20



D 21



B Fells 6-5-93
FIELD TECH. DATE

B Fells 6-5-93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project #

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	201793	22	409	10	10	10	1219	0219	120	1200	10	100	0	10	0.004
A	Notes: Final - 8th floor NW														
B	201893	23	316	10	10	10	1221	0221	120	1200	6	100	0	6	<0.004
B	Notes: Final - 8th floor NW														
C	201993	24	—	—	—	—	—	—	—	—	0	100	0	—	—
C	Notes: Blank														
D															
D	Notes:														

Field Area: (Check One)
- ☐ .00785
- ☐ .00754
- ☐ .00724
- ☐ .00801
- ☐ .00817

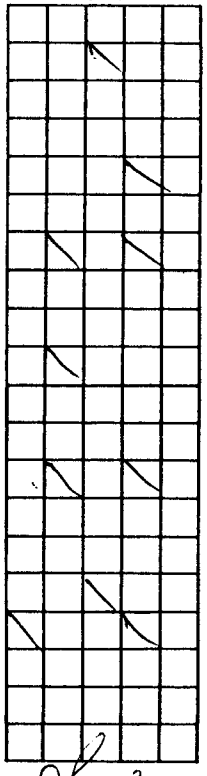
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- ☐ 25 mm (385 sq mm)
- ☐ 37 mm (855 sq mm)

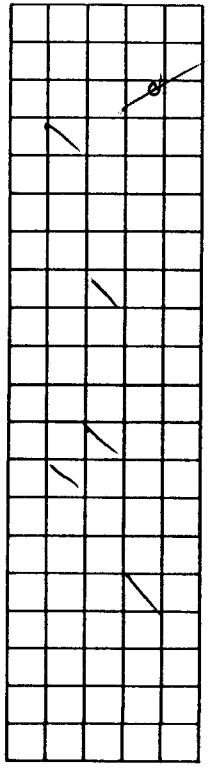
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

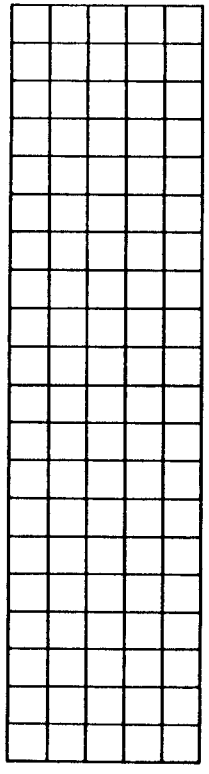
A



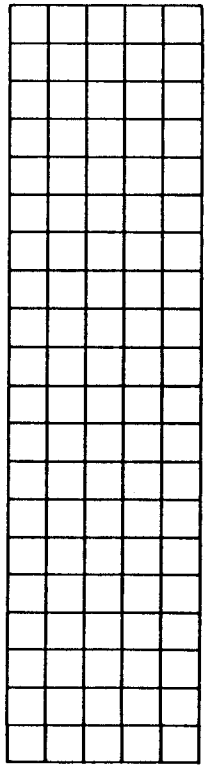
B



C



D



B Wells 6·6·93
FIELD TECH. DATE

B Wells 6-6-93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6 4 1 0 0 2 9

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	216693	01	M	2.5	2.5	2.5	8:42	1002	200	500	6.5	100	0	6.5	<0.010
A	Notes: INSIDE Containment area Room 8235														
B	216793	02	34	2.5	2.5	2.5	8:42	1002	200	500	9.5	100	0	9.5	<0.010
B	Notes: INSIDE Containment area Room 8236														
C	216893	03	16	2.5	2.5	2.5	5:38	1202	384	960	3	100	0	3	0.005
C	Notes: OUTSIDE Critical Barrier Room 8234														
D	216993	04	403	2.5	2.5	2.5	5:40	1204	384	960	4	100	0	4	0.005
D	Notes: OUTSIDE Critical Barrier Room 8227														

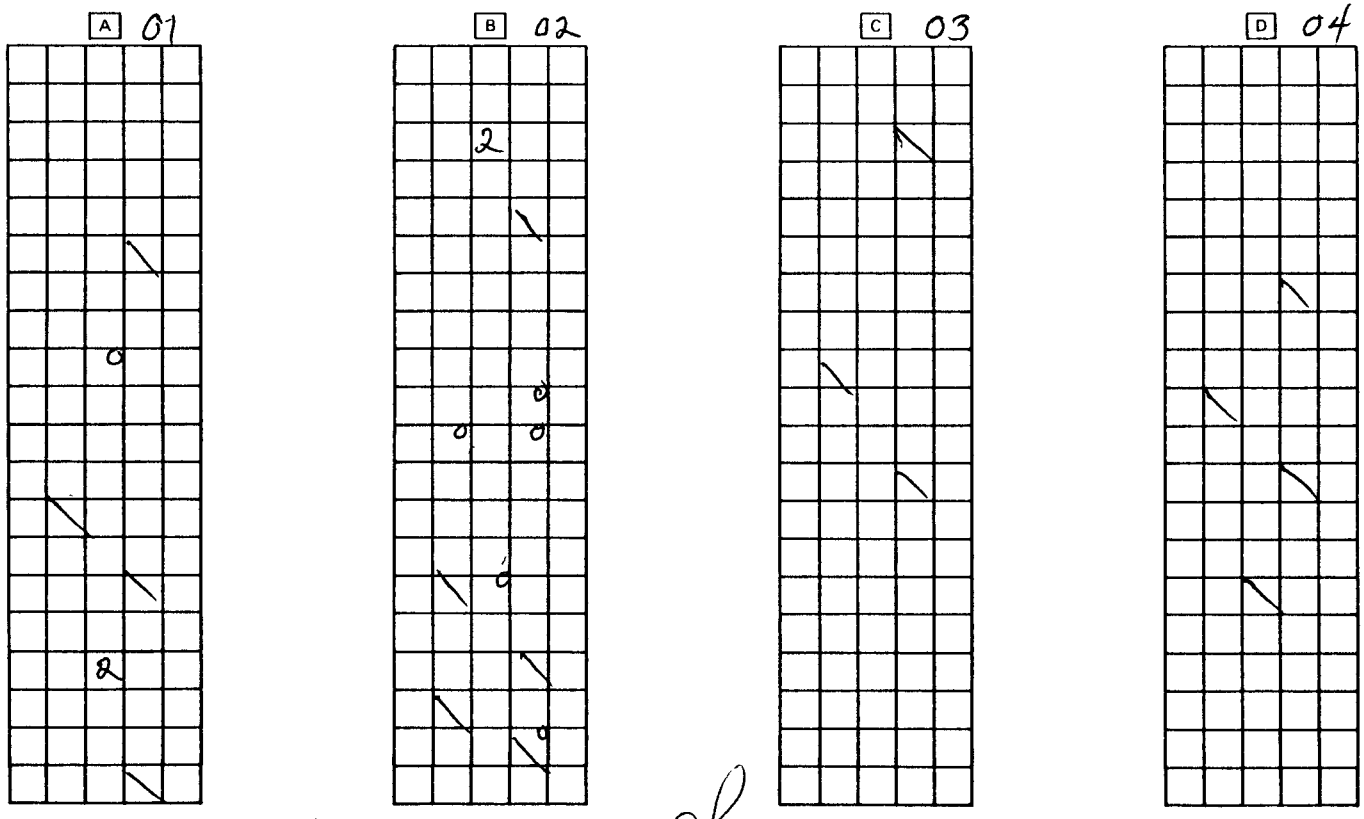
Field Area: (Check One)
- ☒ .00785
- ☐ .00754
- ☐ .00724
- ☐ .00801
- ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- ☒ 25 mm (385 sq mm)
- ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Joseph D Eichenlaub 6/12/93
FIELD TECH. DATE

B Stella 6-17-93
ANALYST DATE

Tracor Technology Resources | **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 64,10,029

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	217093	05	17	2.5	2.5	2.5	5:46	1210	384	960	3	100	0	3	<0.005
A	Notes: Below Containment area 7236														
B	217193	06	61	2.5	2.5	2.5	5:48	1212	384	960	6	100	0	6	<0.005
B	Notes: outside Critical Barrier Staircase 8235														
C	217293	07	941	2.5	2.5	2.5	6:06	1230	384	960					
C	Notes: outside Decon Enhance Containment 8235/8236												overload		
D															
D	Notes:														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

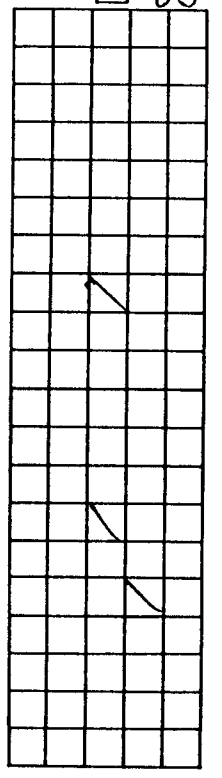
Calculations: Mean Flow = $\frac{\text{Pre + Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

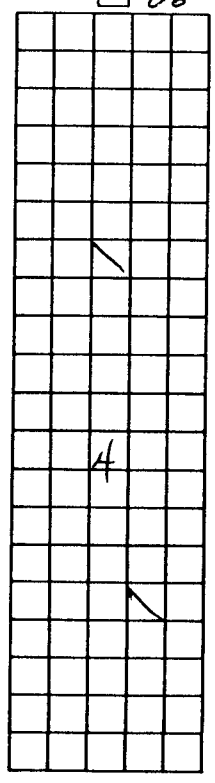
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{\text{(Net Count/100) x Filter Area}}{\text{Field Area x Volume x 1000}}$

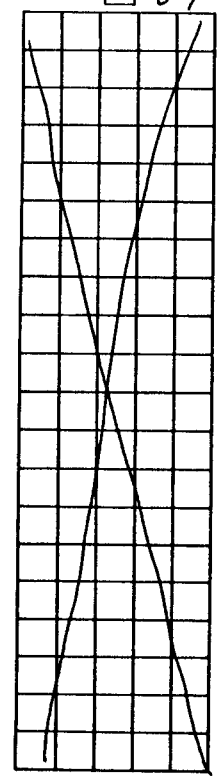
A 05



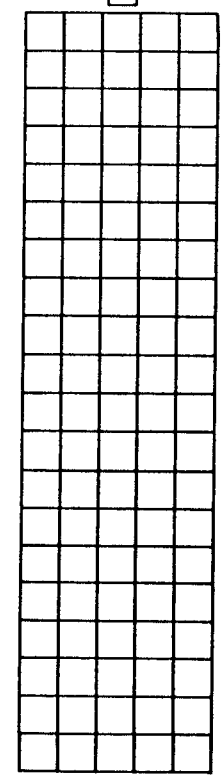
B 06



C 07



D



Joseph D Eichenlaub 6/12/93
FIELD TECH. DATE

B Stells 6-12-93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6410 029

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc	
A	217393	08	5972	2.5	2.5	2.5	1216	—	571	1427.5	19	100	0	19	~~0.01~~	.007
A	Notes: Area: 8th floor hall by 8227															
B	217493	09	5113	2.5	2.5	2.5	1219	—	385	962.5	10½	100	0	10½	~~0.01~~	.005
B	Notes: Area: Inside decon CR															
C	217593	10	5966	2.5	2.5	2.5	1221	—	1033	2582.5	0	100	0	0	~~0.01~~	<.002
C	Notes: Area: On 8234 door															
D	217693	11	5969	2.5	2.5	2.5	1228	—	520	1300	3	100	0	3	0.01	<.004
D	Notes: Area: Stairwell #2 at AFD exhaust															

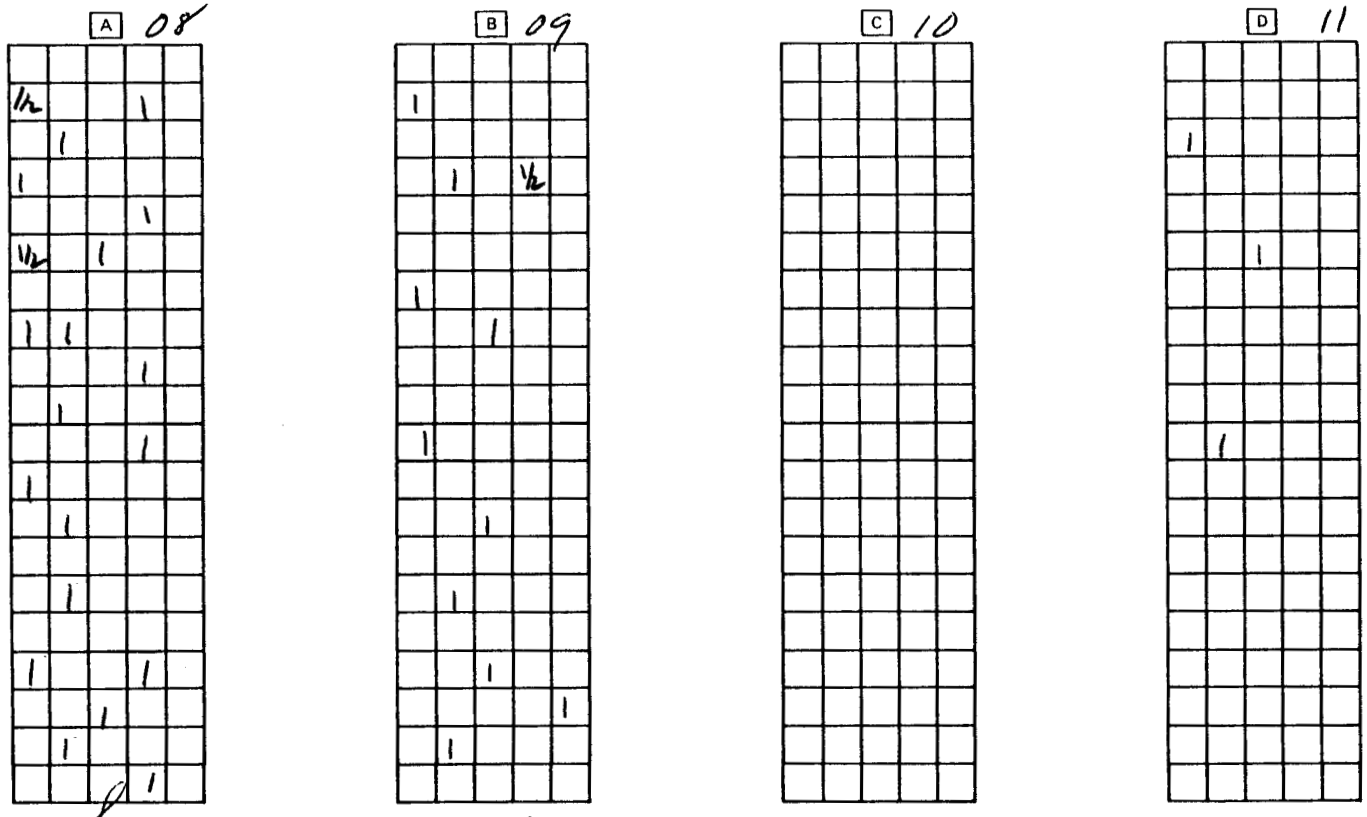
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



B Stells 6-12-93 — FIELD TECH. DATE

Joseph D Eckenrode 6/12/93 — ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6410-029

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	217793	12	5967	2.5	2.5	2.5	1232	—	545	1362.5	0	100	0	0	~~0.01~~ <1.004
A	Notes: Area: 8th floor elevator lobby														
B	217893	13									0	100	0		
B	Notes: Blank														
C	217993	14									0	100	0		
C	Notes: Blank														
D															
D	Notes:														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A 12

B 13

C 14

D

B Wells 6-12-93
FIELD TECH. DATE

Joseph Eubanks 6/12/93
ANALYST DATE

Tracor Technology Resources | **Air Sample Sheet**

Project # 641 10 029

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc	
A	218093	15	Hi Vol	10.0	10.0	10.0	12:05	2:05	120	1200	1	100	0	1	~~0.01~~	<.004
A	Notes: Final Air Inside Containment 6236/6235															
B	218193	16	Hi Vol	10.0	10.0	10.0	12:05	2:05	120	1200	2	100	0	2	~~0.01~~	<.004
B	Notes: Final Air Inside Containment 6236/6235															
C	218293	17	Hi Vol	10.0	10.0	10.0	12:05	2:05	120	1200	0	100	0	0	~~0.01~~	<.004
C	Notes: Final Air Inside Containment 6236/6235															
D	218393	18	Hi Vol	10.0	10.0	10.0	12:05	2:05	120	1200	0	100	0	0	~~0.01~~	<.004
D	Notes: Final Air Inside Containment 6236/6235															

Field Area: (Check One)
- [x] .00785
- [ ] .00754
- [ ] .00724
- [ ] .00801
- [ ] .00817

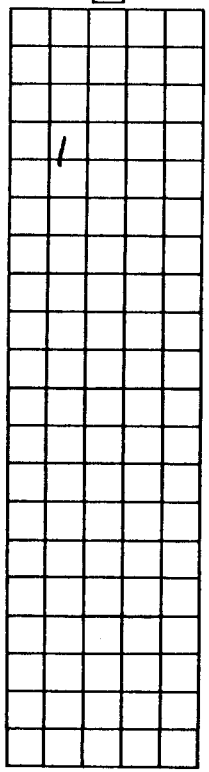
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- [x] 25 mm (385 sq mm)
- [ ] 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A



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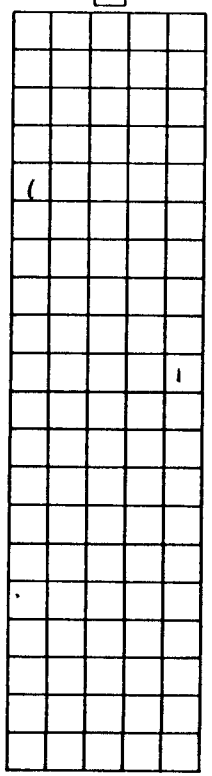

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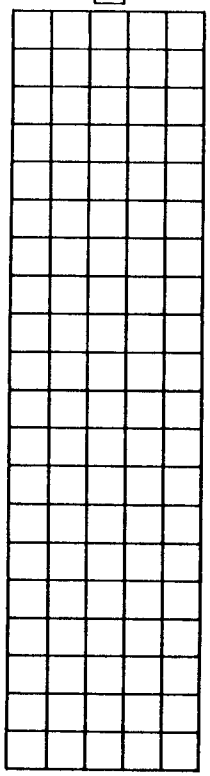
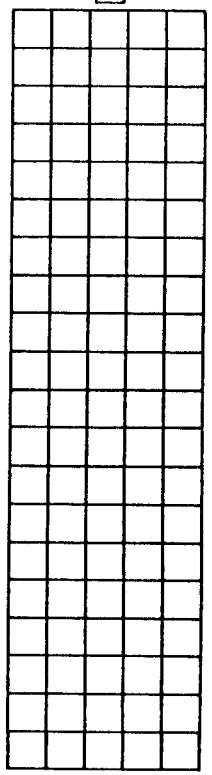


D



Joseph D Eichenlaub 6/13/93
FIELD TECH. DATE

Joseph D Eichenlaub 6/13/93
ANALYST DATE

Tracor Technology Resources — Air Sample Sheet

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6 4 1 0 0 2 9

Shift
6-18-93 - 6-19-93
7:00pm - 7:00Am

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	214893	01	29	2.5	2.5	2.5	347	1130	463	1158	18	100	1	17	.007
A	Notes: OUTSIDE Containment 8226/Decontamination unit														
B	214993	02	31	2.5	2.5	2.5	3:46	1131	465	1163	1.5	100	1	.5	<.004
B	Notes: OUTSIDE Outical Barrier Room 8222														
C	215093	03	23	2.5	2.5	2.5	3:50	1100	430	1075	19.5	100	1	18.5	.008
C	Notes: INSIDE Containment AREA 8234/8228														
D	215193	04	22	2.5	2.5	2.5	3:55	1127	452	1130	2	100	1	1	<.004
D	Notes: OUTSIDE Outical BARRIER ROOM 8236 HALLWAY NEAR Stairwell #2														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre + Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

1				
	1	1		1
			1	
	1			
1		1		
	1/2			
				1
	1/2			
		1		
1	1		1	
				1
	1/2	1		
1				1/2

B

1				
	1/2			

C

1		1		
	1			
			2	
				1
		1		
1				
	1/2			
			1/2	
1/2		1		1
	1/2			
1		1	2	
	1/2			
1		1	1/2	
				1/2

D

				1
	1			

Joseph D Eichenlaub 6/18
FIELD TECH. DATE

Galembieski 6-11-93
ANALYST DATE

Tracor Technology Resources — Air Sample Sheet

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6 4 1 0 0 2 9

Shift
6-18-93 - 6-19-93
7:00pm - 7:00Am

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	215293	05	15	2.5	2.5	2.5	3:56	1126	450	1125	1	100	1	0	<.004
A	Notes: NEGATIVE PRESSURE EXHAUST Stairwell #2														
B	215393	06	L-2	10	10	10	0920	1120	120	1200	17.5	100	1	16.5	.007
B	Notes: Outside Decon 10 feet South of Clean Room														
C	215493	07	—	—	—	—	—	—	—	→	2	100	2	2	—
C	Notes: Blank														
D	215593	08	—	—	—	—	—	—	—	→	0	100	0	0	—
D	Notes: Blank														

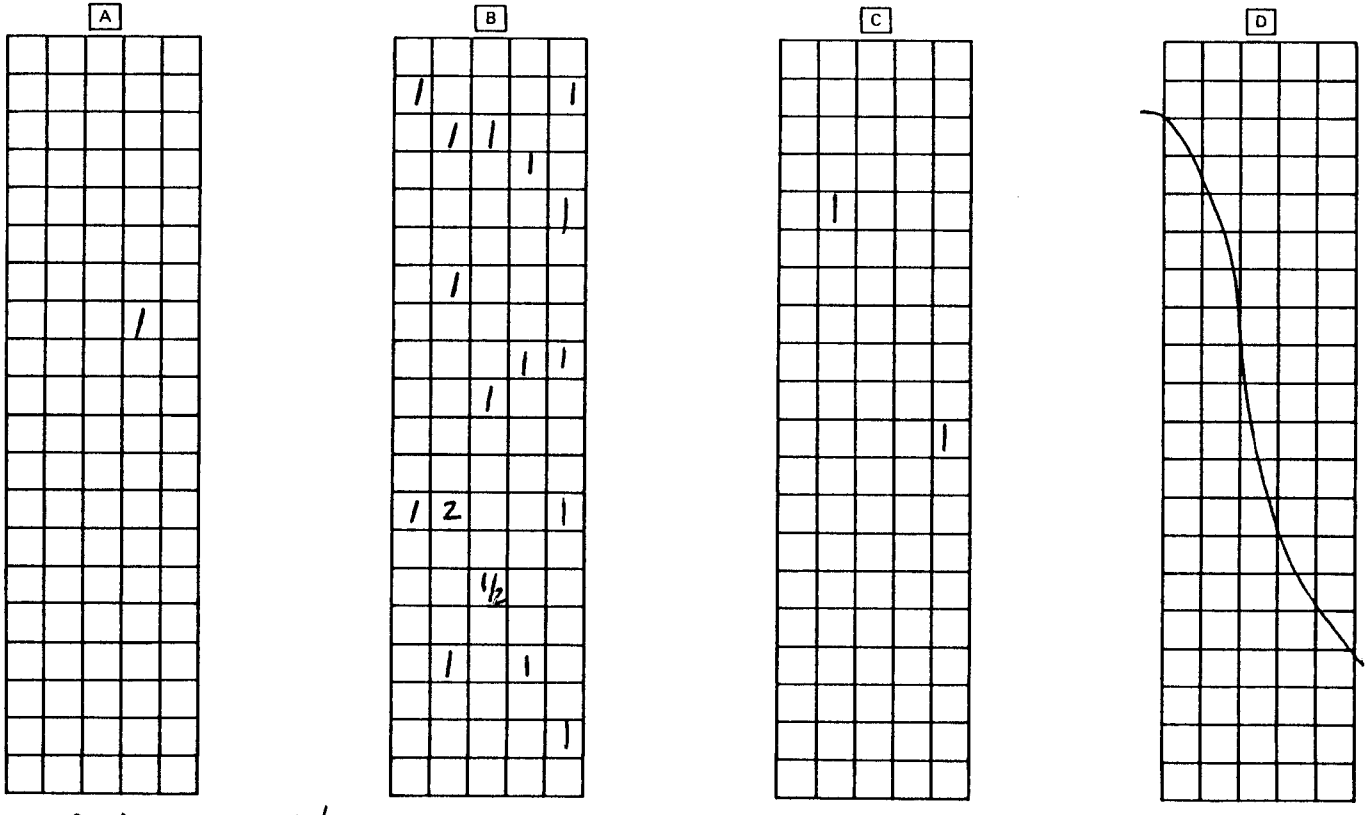
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Joseph D Eichenlaub 6/18
FIELD TECH. DATE

Kolombinski 6-19-93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6.4.1.10.D.2.9.0.V.1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc	
A	215693	9	69	2.5	2.5	2.5	1146	1813	387	968	8	100	1	7	~~0.01~~	<.005
A	Notes: Outside Decon Unit Rm 8226															
B	215793	10	72	2.5	2.5	2.5	1145	1813	388	970	3½	100	1	2½	~~0.01~~	<.005
B	Notes: Outside Critical Barrier Room 8222															
C	215893	11	66	2.5	2.5	2.5	1150	1822	392	980	2	100	1	1	~~0.01~~	<.005
C	Notes: Neg Pressure Exhaust Well #2															
D	215993	12	67	2.5	2.5	2.5	1150	1822	392	980	1	100	1	0	~~0.01~~	<.005
D	Notes: Outside Critical Barrier Room 8236															

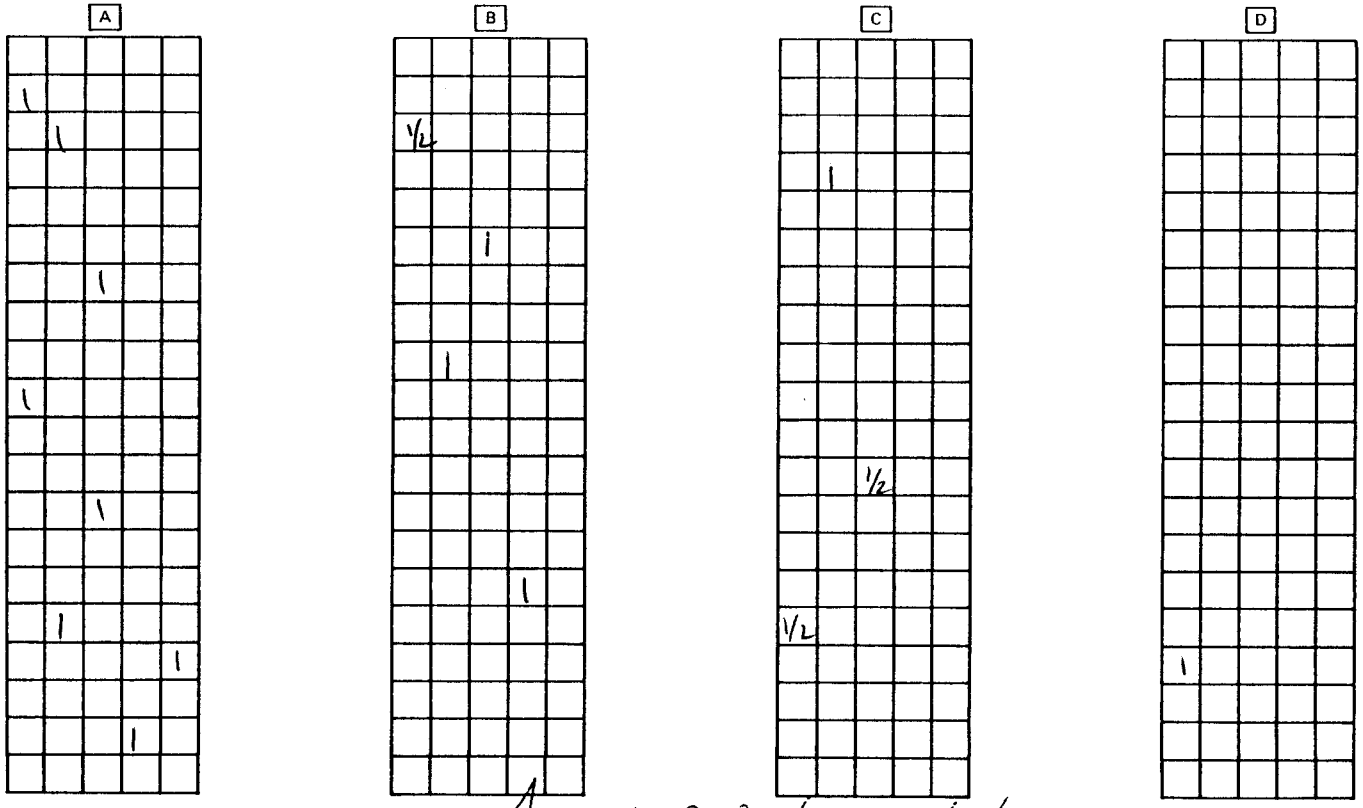
Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Golombieski 6-19-93
FIELD TECH. DATE

Joseph D Eichenlaub 6/19/93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6,4,1,0,2,9,0,1,

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Mean (Liters/Min)	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	216093	13	51	2.5	2.5	2.5	1230	1800	330	825	14	100	1	13	~~0.01~~ .008
A	Notes: Inside Containment Area														
B	216193	14	L-2	10	10	10	1335	1530	125	1250	12	100	1	11	.004
B	Notes: Outside Decon 10 Feet S.W. of Clean Room														
C	~~[illegible]~~														
C	Notes:														
D															
D	Notes:														

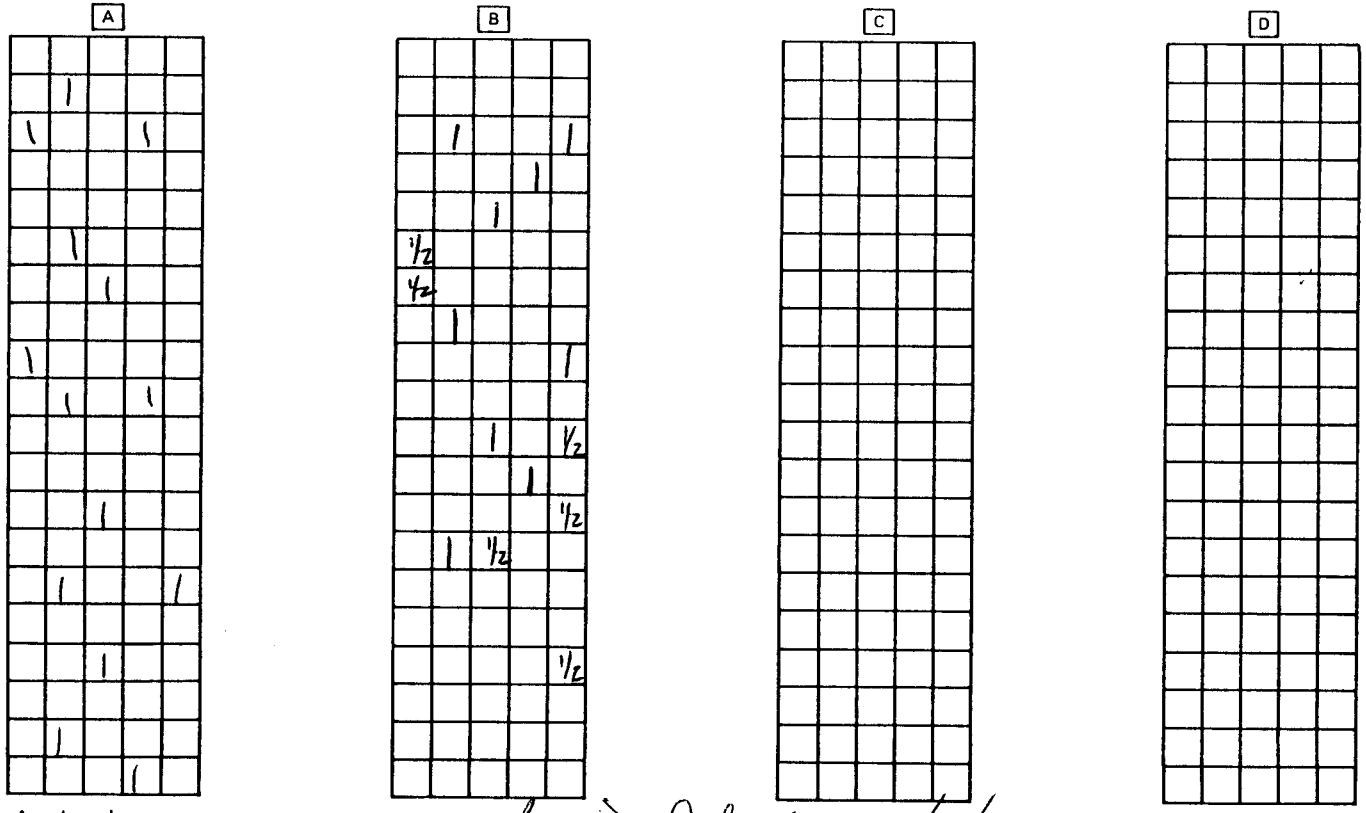
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Colomkowski — FIELD TECH. — 6-19-93 DATE

Joseph D Eichenlaub — ANALYST — 6/19/93 DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 641 10.029

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc	
A	216293	15	953	10.0	10.0	10.0	925	11:25	120	1200	2	100	1	1	~~0.01~~	<.004
A	Notes: Final INSIDE Containment area 8234/8228															
B	216393	16	630	10.0	10.0	10.0	925	11:25	120	1200	3½	100	1	2½	~~0.01~~	<.004
B	Notes: Final INSIDE Containment area 8234/8228															
C	216493	17	597	10.0	10.0	10.0	925	11:25	120	1200	3	100	1	2	~~0.01~~	<.004
C	Notes: Final INSIDE Containment area 8234/8228															
D	216593	18	941	10.0	10.0	10.0	925	11:25	120	1200	1	100	1	0	~~0.01~~	<.004
D	Notes: Final INSIDE Containment area 8234/8228															

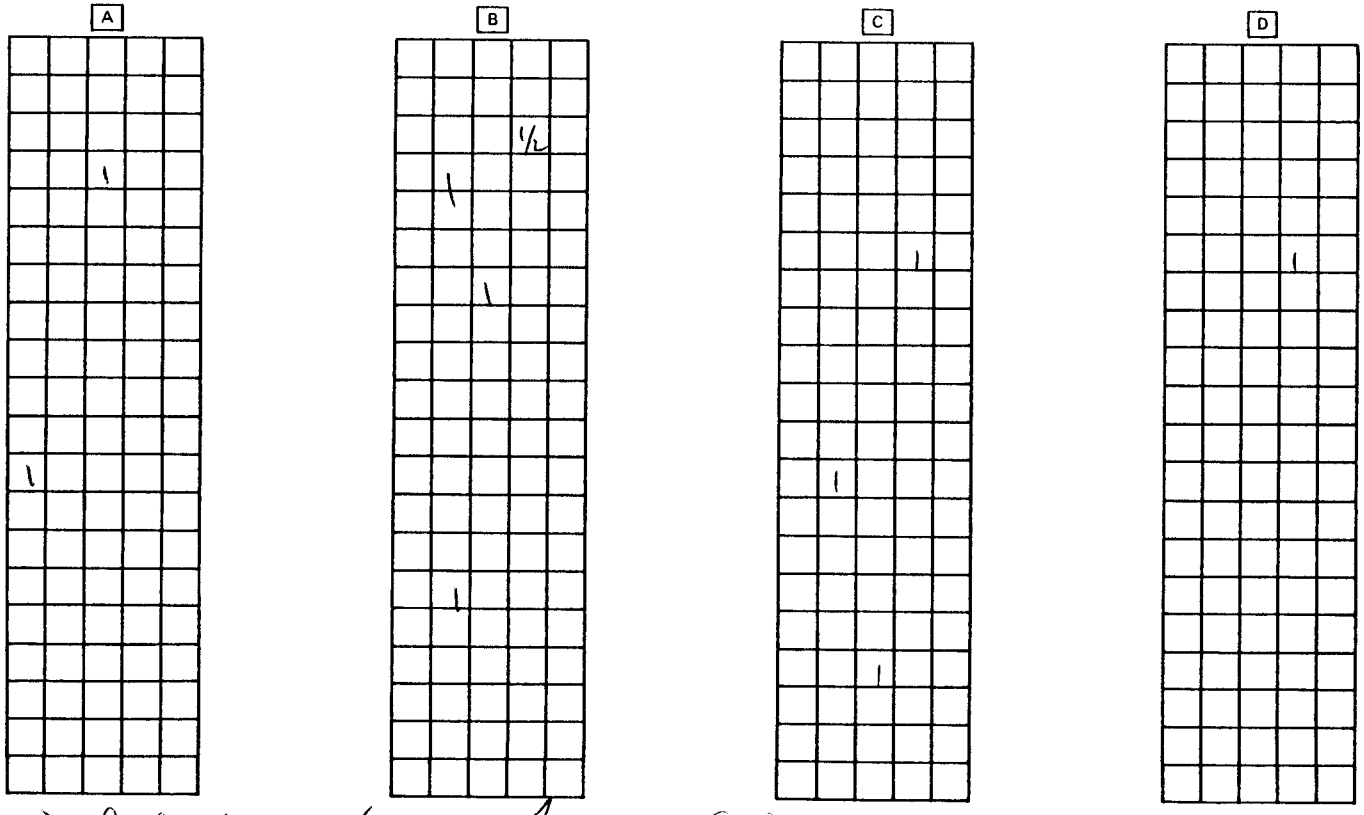
Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Joseph D Eichenlaub 6/19
FIELD TECH. DATE

Joseph D Eichenlaub 6/19
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6410-029

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	223293	01	403	2.5	2.5	2.5	0532	1355	483	1207.5	15	100	0	15	.006
A	Notes: Area - 8th floor hall at 8212														
B	223393	02	61	2.5	2.5	2.5	0600		PUMP		FAILURE				
B	Notes: Area - in elevator lobby														
C	223493	03	1	2.5	2.5	2.5	0602	1415	493	1232.5	3.5	100	0	3.5	≤.004
C	Notes: Area - in hall at 8202														
D	223593	04	34	2.5	2.5	2.5	0607	1410	493	1207.5	4.5	100	0	4.5	≤.004
D	Notes: Area - in hall at 8226														

VOID

Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

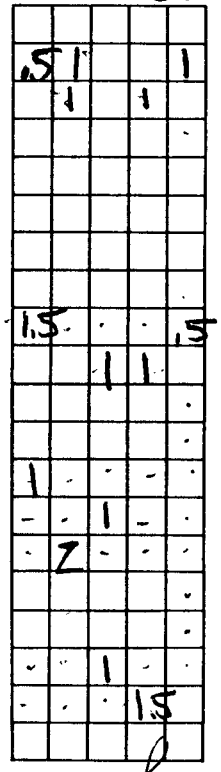
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

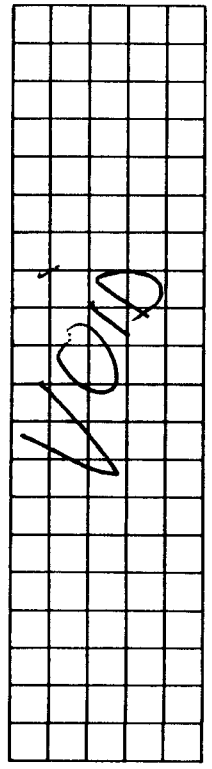
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

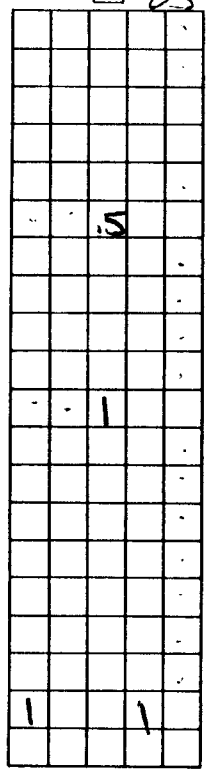
A 01 — 15/100



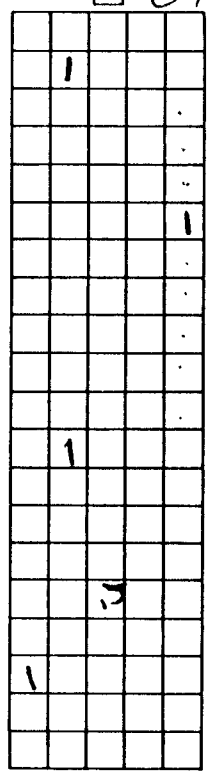
B 02 — VOID



C 03 — 3.5/100



D 04 — 4.5/100



B Fells 6-25-93
FIELD TECH. DATE

ANALYST 6/24/93
DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6410-029

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	223693	05		10	10	10	0616	0846	150	1500	10	100	0	10	.003
A	Notes: Area in hall at 8204														
B	223793	06	M	2.5	2.5	2.5	0557	0857	180	450	10.5	100	0	10.5	.011
B	Notes: Inside WA														
C	223893	07	—	—	—	—	—	—	—	—	0	100			
C	Notes: Blank														
D	223993	08	—	—	—	—	—	—	—	—	0	100			
D	Notes: Blank														

Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

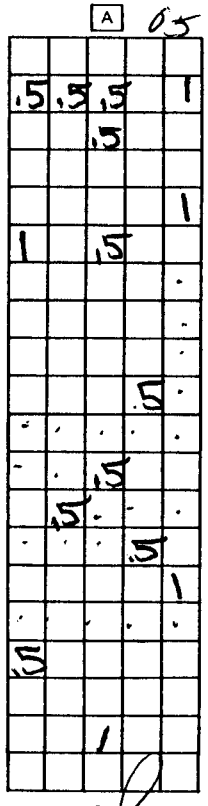
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

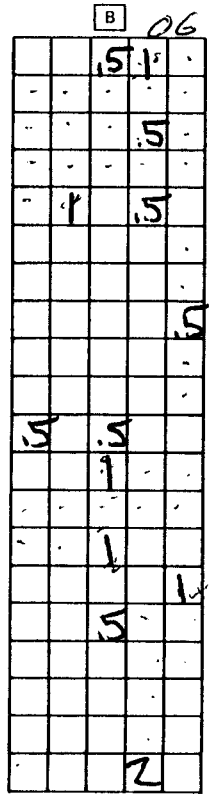
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

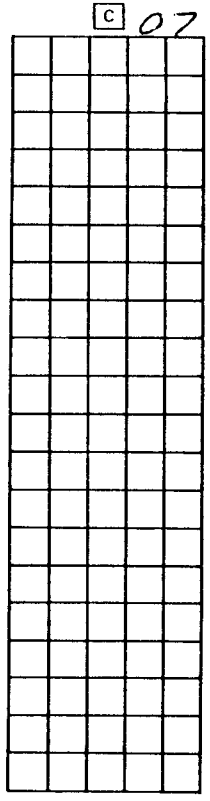
A 05 — 10/100



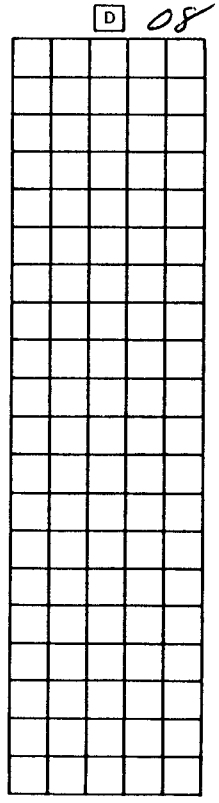
B 06 — 10.5/100



C 07



D 08



B Hells 6-25-93
FIELD TECH. DATE

[redacted] 6/24/93
ANALYST DATE

Tracor Technology Resources | **Air Sample Sheet**

Project # 6.4.1.0.0.2.9.0.1.

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	224093	09	Z3119	2.5	2.5	2.5	1400	~~2220~~ ~~1020~~	BW ~~520~~ 500	1250	15	100	0	15	0.006
A	Notes: AREA - 8TH floor ON Door 8212 - By DECON														
B	224193	10	23193	2.5	2.5	2.5	1400	~~1022~~ 2222	BW ~~522~~ 502	1255	9	100	0	9	<0.004
B	Notes: AREA - In Elevator lobby														
C	224293	11	23192	2.5	2.5	2.5	1410	~~1030~~ 2230	BW ~~520~~ 500	1250	3.5	100	0	3.5	<0.004
C	Notes: AREA - In Hall - Door 8226														
D	224393	12	23197	2.5	2.5	2.5	1415	~~1023~~ 2225	BW ~~510~~ 490	1225	0	100	0	0	<0.004
D	Notes: AREA - 8202 - Inside Rooms / CRITICAL BARRIER														

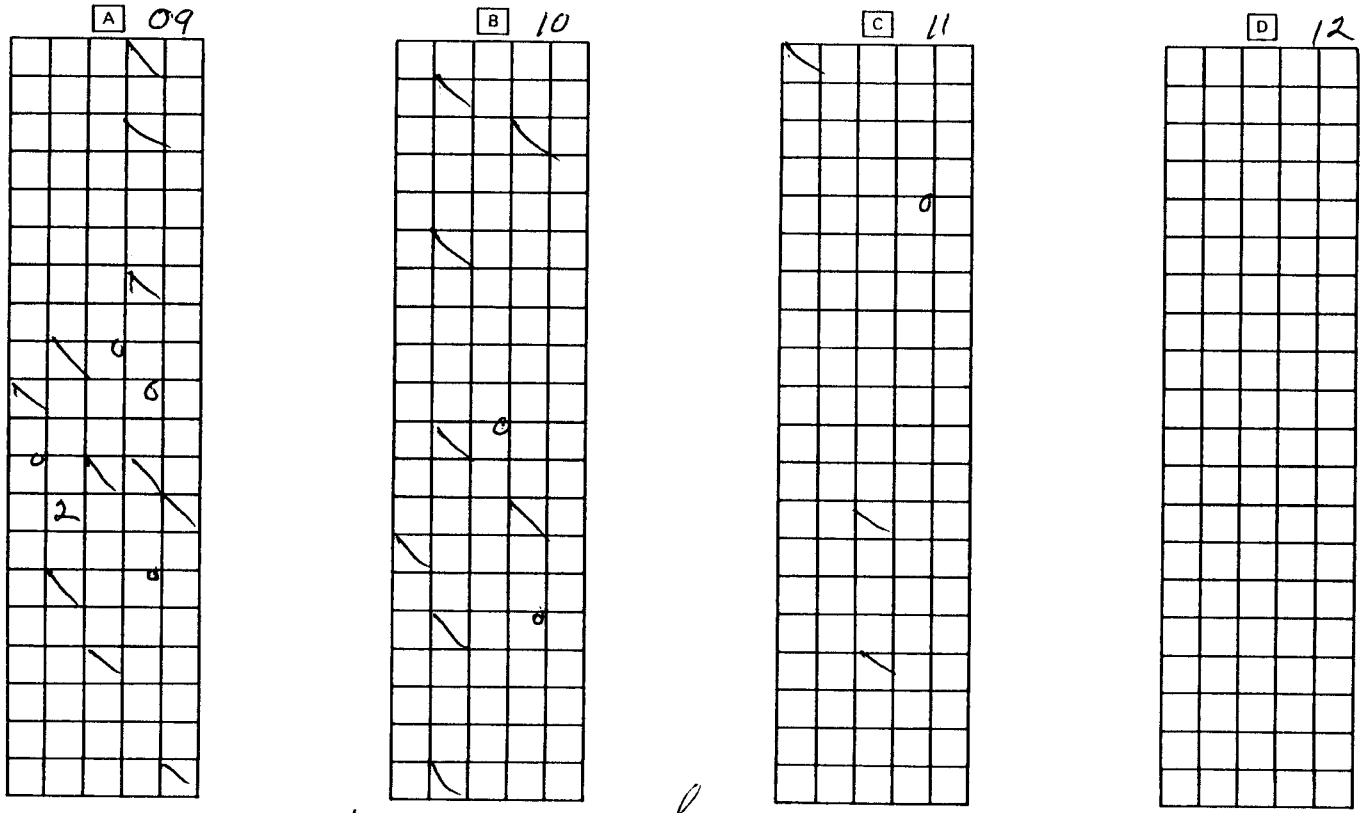
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



[signature] 6/24/93
FIELD TECH. DATE

B Stello 6-26-93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6.4.1.0.2.9.0.1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	224493	13		10.0	10.0	10.0	1440	1740	180	1800	16	100	0	16	.004
A	Notes: AREA - In Hall at 8204														
B	224593	14	M	2.5	2.5	2.5	1445	1745	180	450	17.5	100	0	17.5	.019
B	Notes: Inside Containment														
C															
C	Notes:														
D															
D	Notes:														

Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

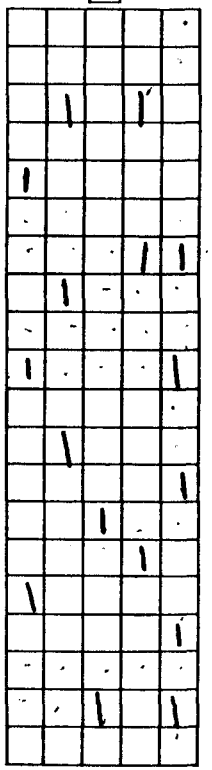
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

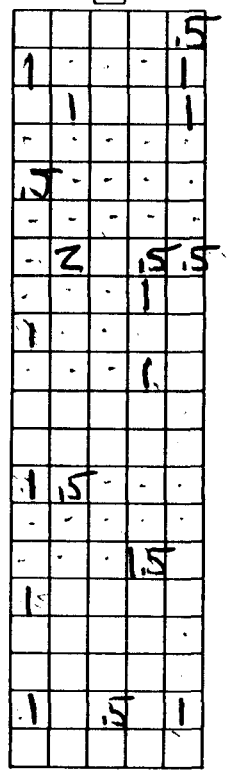
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A: 16/100



B: 17.5/100



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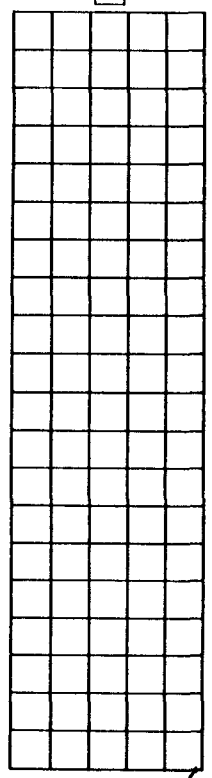

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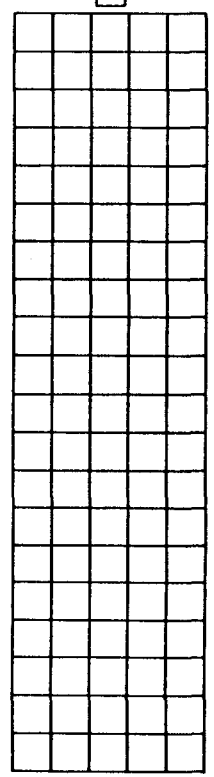


FIELD TECH. — DATE 6/24/93

ANALYST — DATE 6/24/93

Tracor Technology Resources | **Air Sample Sheet**

Project # 6410-029

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	224693	15	568	10	10	10	1208	0208	120	1200	0	100	0	0	<0.004
A	Notes: Final - Inside 8th floor WA 2408														
B	224793	16	379	10	10	10	1210	0210	120	1200	0	100	0	0	<0.004
B	Notes: Final - Inside 8th floor WA 2410														
C	224893	17	14	10	10	10	1212	0212	120	1200	1	100	0	1	<0.004
C	Notes: Final - Inside 8th floor WA 2412														
D	224993	18	611	10	10	10	1214	0214	120	1200	2	100	0	2	<0.004
D	Notes: Final - Inside 8th floor WA 2414														

Field Area: (Check One) ☒ .00785 ☐ .00801 ☐ .00754 ☐ .00817 ☐ .00724

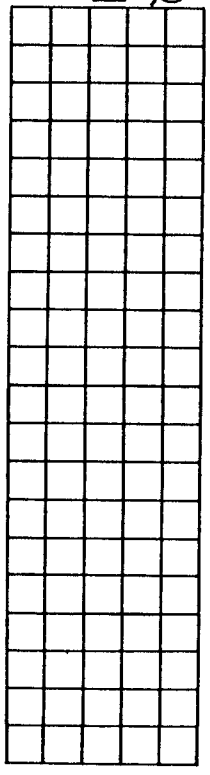
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

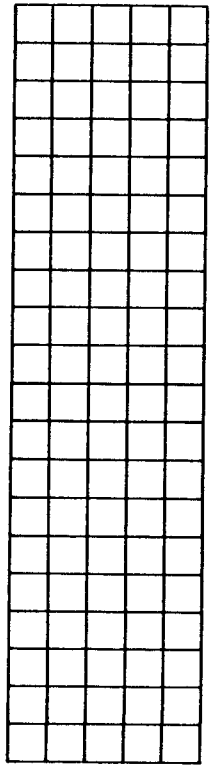
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

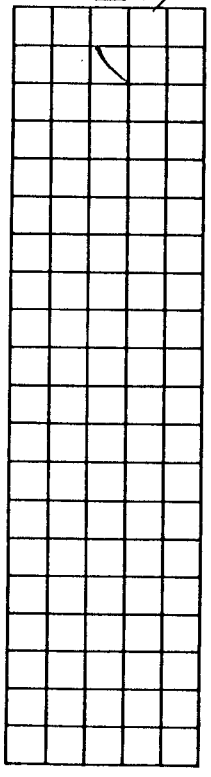
A 15



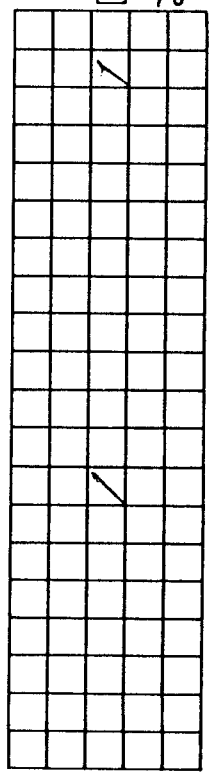
B 16



C 17



D 18



B Sells 6-27/93
FIELD TECH. DATE

B Sells 6-27-93
ANALYST DATE

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB SUITE 8002 Project: 6410-079-01

Location: 1725 17th STREET N.W WASH. DC. Date: 5-14 (5-15) 1993

Removal Contractor: RETIRD Time Inspected: 4:30

Monitoring Contractor: TRACORTECH.RS Time Work Started: 5:15

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	✓	
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking		

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

RETRO-WORKING on ~~Area~~ RAISING NEG AIR AFTER DEICING POLYMER DRON

NEG AIR 0540 -028 GOOD TO GO

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: Charles Ehly Jr. Date: 5-15-93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB
Location: 1725 17th STREET N.W WASH DC. SUITE 8002
Project: 6410-029-01
Date: 5-14-5-15, 1993
Removal Contractor: RETRO
Time Started: 7:00 PM
Monitoring Contractor: TRACOR TECH. RES.
Time Stopped: 7:00 AM

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	NA	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .~~03~~"02	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

RETRO SETTING UP SUITE 1000Z NO ACM

RETRO SET UP SUITE 800Z BEGAN CEILING DROP 5:45 AM

Report Prepared By: [signature] Date: 5-14-15, 1993

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB - Suite 8002 Project: 6410-029-01
1725 17th Street N.W.
Location: Washington D.C. Date: 5-15-93
Removal Contractor: Retro. Time Started: 6:00 A.M.
Monitoring Contractor: Tracor. Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure ~~> .03"~~	0.026"	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	N/A	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP "C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

* Outer barrier had come loose - Stanwell #4

Report Prepared By: [signature] Date: 5-15-93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NFOB

Project: 641002901

Location: 8th SE

Date: 5/15/93

Removal Contractor: Retro

Time Started: 1900

Monitoring Contractor: Tracor

Time Stopped: 0130

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	/	
	e. Material Kept Wetted Until Bagged.	/	
4. Worker Protection	a. Disposable Clothing Used One Time.	/	
	b. Proper NIOSH respirators.	Disp /	
		HEPA /	
		PAPR	
		TYP"C"	
	c. Proper Decontamination Sequence Followed	/	
5. Showers	a. Functioning?	/	
	b. Soap and Towels?	/	
	c. Used Each Departure?	/	
6. Work Habits In Work Area	a. No Smoking	/	
	b. No Eating/Drinking	/	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 5/15/93

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 641002901

Location: 8th SE Date: 5/15/93

Removal Contractor: Retro Time Inspected: 2200

Monitoring Contractor: Tracor Time Completed: 2220

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	✓	
	d. Ventilation Equipment.	✓	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	✓	
	g. Ductwork.	✓	
	h. Registers	✓	
	i. Lights.	✓	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	5A	6A	7A	8A	
Location:	8th	8th	8th	8th	
Volume (Liters):	1200	1200	1200	1200	
Flow rate: (Liters/Minute)	10	10	10	10	
Fibers/Filter:	3.5	2	7.5	5	
Fibers/Cubic Cm:					

ANALYST ANALYZING SAMPLES: Ken Brown DATE: 5/15/93

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: Ken Brown Date: 5/15/93

REPORT REVIEWED BY: _____ DATE: _____

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEW EOB Project: 6410-029

Location: 8th FLOOR N.W. Date: 6-5-93

Removal Contractor: RETRO Time Started: 7:00 AM

Monitoring Contractor: TRACOR Time Stopped: 7:00 PM

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > ~~.03"~~ .02	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	N/A ✓	
	b. Removed Material Promptly Bagged.	N/A	
	c. Debris Stored in removal area.	N/A	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

NEG AIR ACHIEVED 7:40 AM

Report Prepared By: [signature] Date: 6-6-93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEW EOB Project: SPRINKLER

Location: 8th FLOOR - NW Date: 6/5/93

Removal Contractor: RETRO Time Started: 0730

Monitoring Contractor: TRACOR Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	10	
	f. Negative pressure > ~~.03"~~ 0.02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	N/A	
	b. Removed Material Promptly Bagged.	N/A	
	c. Debris Stored in removal area.	N/A	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	N/A	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	N/A	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: Scott Dunn Date: 4/5/93

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: VEOB Project: Sprinklers

Location: 8th Floor N.W Date: 6-5-93

Removal Contractor: Retro Time Inspected: 5:30AM

Monitoring Contractor: Tracor Time Work Started: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	10	
	f. Negative pressure > .02"	N/A	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	N/A	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	N/A	
5. Showers	a. Functioning?	N/A	
	b. Soap and Towels?		
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Stairwell #2 obstructed by exhaust from microtrap

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: [signature] Date: 6-5-93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6410-029-01

Location: 8th floor NW Date: 6-5-93

Removal Contractor: Retro Time Started: —

Monitoring Contractor: Tracor Time Stopped: —

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	na	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	na	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ___ HEPA 1/2 face PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Sells Date: 6-5-93
6-6-93

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 6410-029-01

Location: 8th floor NW area Date: 6-5-93

Removal Contractor: Retro Time Inspected: 1115-2315

Monitoring Contractor: Tracor Time Completed: 1130-2330

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	yes	
	b. Horizontal Surfaces.	yes	
	c. Pipes.	no	
	d. Ventilation Equipment.	no	
(above eye level)	e. Horizontal surfaces.	yes	
	f. Pipes.	no	
	g. Ductwork.	yes	
	h. Registers	yes	
	i. Lights.	yes	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	20	21	22	23	
Location:	inside WA	inside WA	inside WA	inside WA	
Volume (Liters):	1200	1200	1200	1200	
Flow rate: (Liters/Minute)	10	10	10	10	
Fibers/Filter:	3	6	10	6	
Fibers/Cubic Cm:	0.004	0.004	0.004	0.004	

ANALYST ANALYZING SAMPLES: B Hills DATE: 6-6-93

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Hills Date: 6-6-93

REPORT REVIEWED BY: _____ DATE: _____

6/11/93 — 6/12/93
7:00pm — 7:00 Am

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB Project: 6410-029

Location: 8th Floor Date: 6/12/93

Removal Contractor: RETRO Time Inspected: _____

Monitoring Contractor: TRACOR Time Work Started: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around [redacted], windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	✓	
	f. Negative pressure > .02"	-0.030	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled		

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	on site	
	e. Material Kept Wetted Until Bagged.		
4. Worker Protection	a. Disposable Clothing Used One Time.	on-site	
	b. Proper NIOSH respirators.	Disp HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed		
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?		
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: Joseph D Eichenlaub Date: 6/12/93

6/11/93 - 6/12/93
7:00pm - 7:00 Am

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6410-029

Location: 8th Floor Date: 6/12/93

Removal Contractor: RETRO Time Started: _____

Monitoring Contractor: TRACOR Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	NA	
	d. Seals around ~~ducts~~, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: 6410-029

Location: 8th floor

Date:

Removal Contractor: Retro

Time Started: 0700

Monitoring Contractor: Tracor

Time Stopped: 1900

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	no	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	no	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA 1/2 face PAPR TYP "C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: R. Sells Date: 6-12-93

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: Joseph D Eichenlaub Date: 6/12/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: Sprinklers

Location: 8th Floor + #4 Stairwell Date: 6-12-93

Removal Contractor: Retro Time Started: 6:00

Monitoring Contractor: Tracer Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	NA	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	N/A	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

#2 stairwell obstructed by flex duct from neg-air machine - Retro instructed to clear stairwell.

Report Prepared By: [signature] Date: 6-12-93

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 6410-029

Location: 8th Floor 8236/8235 Date: 6/12/-6/13/93

Removal Contractor: RETRO Time Inspected: 11:30pm 6/12/93

Monitoring Contractor: TRACOR Time Completed: _____

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	NA	
	d. Ventilation Equipment.	NA	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	NA	
	g. Ductwork.	NA	
	h. Registers	NA	
	i. Lights.	NA	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	15	16	17	18	
Location:	INSIDE	INSIDE	INSIDE	INSIDE	
Volume (Liters):	1200	1200	1200	1200	
Flow rate: (Liters/Minute)	10	10	10	10	
Fibers/Filter:	1	2	0	0	
Fibers/Cubic Cm:	<0.01	<0.01	<0.01	<0.01	

ANALYST ANALYZING SAMPLES: Joseph D Eichenlaub DATE: 6/13/93

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: Joseph D Eichenlaub Date: 6/13/93

REPORT REVIEWED BY: _____ DATE: _____

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEDB Project: 6410-029

Location: 8234 8228 Date: June 18, 1993

Removal Contractor: RETRO Time Inspected: _____

Monitoring Contractor: TRACOR Time Work Started: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	✓	
	f. Negative pressure > .02"	✓ -0.024	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled		

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.		
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No problems encountered

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: Joseph D Eichenlaub Date: 6/18/93 - 6/19/93
7:00pm - 7:00Am

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6410-029

Location: 8234 8223 Date: June 19 1993

Removal Contractor: RETRO Time Started: _____

Monitoring Contractor: TRACOR Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	NA	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	3	
	f. Negative pressure > .03"	-0.024	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	NA	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.		
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No Problems Encountered

Report Prepared By: Joseph D Eudenbal Date: 6-18-93 7:00pm - 6-19-93 7:00 Am

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: Sprinklers

Location: 8th Floor - 8WG- Date: 6-19-93

Removal Contractor: ReTro. Time Started: 5:30 A.

Monitoring Contractor: Tracor Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	.028	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	N/A	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	N/A	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

#2 stairwell landing not obstructed by ductwork at floor 8. Beer bottles observed inside ~~the~~ fall to #2 stairwell.

Report Prepared By: [signature] Date: 6-19-93.

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6410-029-01

Location: 8th Floor 8234 8228 Date: 6-19-93

Removal Contractor: Retro Time Started: 0700

Monitoring Contractor: TTR Time Stopped: 1900

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	✓/a	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	.024-.032	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: John Golombieski Date: 6-19-93

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 6410-029

Location: 8234/8228 Date: June 19, 1993

Removal Contractor: RETRO Time Inspected: 8:45

Monitoring Contractor: TRACON Time Completed: _____

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	NA	
	d. Ventilation Equipment.	NA	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	NA	
	g. Ductwork.	NA	
	h. Registers	NA	
	i. Lights.	NA	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	15	16	17	18	
Location:	INSIDE	INSIDE	INSIDE	INSIDE	
Volume (Liters):	1200	1200	1200	1200	
Flow rate: (Liters/Minute)	10.0	10.0	10.0	10.0	
Fibers/Filter:	2	3/2	3	1	
Fibers/Cubic Cm:	<0.01	<0.01	<0.01	<0.01	

ANALYST ANALYZING SAMPLES: Joseph D Eichenlaub DATE: June 19, 1993

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

NO problems encountered

Report Prepared By: Joseph D Eichenlaub Date: June 19, 1993

REPORT REVIEWED BY: _____ DATE: _____

Page # 1

LOG SHEET

Date: 6-25-93 - 6-26-93

Project Number: 6410-029

Industrial Hygienist: B Wells / Mike Brower

Abatement Contractor/Supervisor: Retro / Bob / Dave

Time	Remarks
1900	IR on site. Nothing happening on the 8th floor IR prepared samples
0530	Retro requested an inspection of 8th floor west central ACA. IR inspected and found only a couple of spots that needed re-doing. IR gave Retro permission to abate at 0545
0615	IR had placed area air samples. Negative air was -.058 to -.032 in
0700	Brower On Site From IIR - Went over Sample locations with Bob Wells. - Wells off Site. Pipe Fitters On Site - Ceiling tile Out
0800-	Retro Doing Ceiling Scrapes At this time
0915-	Inside Sample is .011 f/cc - This is during Ceiling removal & Ceiling Scrape - I will tell Retro to clean any loose material on Containment floor.
1000-	Fitters have All Main lines up & will begin to Work On Branch lines - All lights Are out & Electricians ARE WORKING ON Installation of Mech. lights
1200-	Work Continues on Sprinkler pipe
1400-	Progress meeting is over - Will Do Two Containments on 6th floor (One Big one) Just Combine two Containments into one large one - Elevator lobby abatement was also discussed.

Page # 2

LOG SHEET

Date: 6-26-93, 6-27-93

Project Number: 6410-029

Industrial Hygienist: Brower

Abatement Contractor/Supervisor: Retro / Dave

Time	Remarks
1600-	Water test Starts & the wait
1800-	Water test off - 'Inside Samples is .019 f/cc - I will tell Dave this & Have His men clean the Area - Waiting For my Relief
1900	B. Hells on site to relieve M. Brower
1915	M. Brower off site. Neg air -.032
1015	IR pulling area samples. Retro is bringing out the bagged ceiling tile
1100	Retro requested a final inspection
1130	IR inspected ACA and gave Retro permission to encapsulate
1300	IR set finals in ACA
0200	IR collected finals. Analysis of final air samples showed all fiber levels below 0.01 f/cc. IR gave Retro permission to return area to use
0300	IR off site

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB

Project: 6410-029

Location: 8th floor

Date: 6-25-93

Removal Contractor: Retro

Time Inspected: 0530

Monitoring Contractor: Tracor

Time Work Started: 0545

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. Seals around ducts, windows and doors	yes	
	d. Vertical and Horizontal Openings	yes	
	e. "Microtrap" in use	yes	
	f. Negative pressure > .02"	yes	
2. Signage	a. Caution Signs at vestibule entry.	no	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ___ HEPA Before PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
"Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: B Hells Date: 5-26-93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: 6410-029

Location: 8th floor

Date: 6-25-93

Removal Contractor: Retro

Time Started: 0530

Monitoring Contractor: Thacon

Time Stopped: 0540

Inspection Catagory	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimetar Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	no	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	no	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA 1/2 face PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Sells Date: 5-26-93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: C6410-029

Location: 8TH Floor

Date: 6/26/93

Removal Contractor: RETRO

Time Started: 0700

Monitoring Contractor: TRACOR

Time Stopped: 1900

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	No	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > ~~.03"~~ .02"	yes	
2. Signage	a. Caution Signs at vestibule entry.	~~yes~~ No mdB	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ___ HEPA X Half face PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 6/26/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: 6410-029

Location: 5th floor west

Date: 6-27-93

Removal Contractor: Retro

Time Started: 1900

Monitoring Contractor: Tracor

Time Stopped: 0300

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	no	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	no	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Matarial Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ___ HEPA ___ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Hall Date: 6-27-93

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	15	16	17	18	
Location:	inside WA	inside WA	inside WA	inside WA	
Volume (Liters):	1200	1200	1200	1200	
Flow rate: (Liters/Minute)	10	10	10	10	
Fibers/Filter:	0	0	1	2	
Fibers/Cubic Cm:	<0.004	<0.004	<0.004	<0.004	

ANALYST ANALYZING SAMPLES: B Hells DATE: 6-27-93

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Hells Date: 6-27-93

REPORT REVIEWED BY: _____ DATE: _____

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 6410-029

Location: 8th floor Date: 6-25-93

Removal Contractor: Pelto Time Inspected: _____

Monitoring Contractor: Tracor Time Completed: _____

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
I. Residual Dust on:			
(below eye level)	a. Floor.	yes	_____
	b. Horizontal Surfaces.	yes	_____
	c. Pipes.	yes	_____
	d. Ventilation Equipment.	yes	_____
(above eye level)	e. Horizontal surfaces.	yes	_____
	f. Pipes.	yes	_____
	g. Ductwork.	yes	_____
	h. Registers	yes	_____
	i. Lights.	na	_____

Reviewed/Mailed AUG 11 1993 T.S.
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CANOFILE-930615

TRACOR

Tracor Technology Resources, Inc.
1601 Research Boulevard
Rockville, MD 20850-3173
301 251-4911

JUN 28 8

Project No.: 6410-029
Serial No.: JG-93-5176
ACT No.: P05554331

June 15, 1993

Ms. Normajean Eleazer
GSA, NCR, WPX, Room 2036
7th and D Streets, SW
Washington, DC 20407

Subject: PROGRESS REPORT II - ASBESTOS MONITORING - NEW EXECUTIVE OFFICE BUILDING - 8TH FLOOR

Dear Ms. Eleazer:

This is progress report II on the asbestos abatement project that occurred at the New Executive Office Building on the 8th floor on April 23-25, 30, May 2, 7-9 and 21-23, 1993.

Personnel from Tracor Technology Resources, Inc. (TTR) monitored Retro Environmental, a licensed asbestos abatement contractor, removing approximately one hundred thirty five (135) square inches of asbestos containing deck insulation per weekend, utilizing full containment procedures.

The Industrial Hygiene Consultant's responsibilities include conducting inspections of the worksite, assessing work practices, and collecting air samples. A total of eighty two (82) air samples were collected. This project consisted of four (4) start up, twelve (12) daily, three (3) CIH, and four (4) final inspection checklist reports.

The TTR Industrial Hygienist conducted daily air monitoring to determine work area fiber concentrations, and fiber levels outside the work area. In addition, the Industrial Hygienist conducted final inspections and clearance air testing. All final clearance air samples were below the required EPA level of 0.01 fibers per cubic centimeter (0.01 f/cc).

Air sample collection measurement and analysis followed the NIOSH 7400 Method A Rules. Air sampling pumps were calibrated both before and after collecting each sample set. Area samples were taken at ≥2.5 liters per minute, and all clearance samples were taken at 10.0 liters per minute.

Please find enclosed air sampling data, daily and final checklists, and all daily log notes.

Page #_____

LOG SHEET

Date: 4/23/93

Project Number: 6410290 01

Industrial Hygienist: Ken Brown

Abatement Contractor/Supervisor: Retro Bob Gurecki

Time	Remarks
1830	TTR on Site and gains Access to New EOB and waiting for Retro.
1900	Retro Arrives and we are escorted to the 10th floor where Crew will be Setting up for non ACM Removal.
2000	Crew Still Setting up on 10th floor Rm 1021-1025.
2120	Crew takes break. Set up on 10th floor is Complete. I was not informed what number to start with So I will start with 1A.
2215	I Set Area Samples. Crew begins to Set up 8th floor Containment. Crew: Bob Gurecki, Tony Cruz, mercedes Diaz, Burnie Macapagal, Gonzalo Surra, Raphael Cuervas, Anastacio Sorta, Fernando Nepomuceno.
2315	Crew Still prepping 8th floor.
2415	Crew Continues to prep W/A.
0115	Crew nearing Completion hanging poly in W/A.
0145	Pumps 2A & 4A were moved about 20 feet because Crew is going to start hanging poly in the Hallway. After they take a break.
0210	Crew back to work.
0320	At this time crew has installed microtraps. Electricians are supposed to be here @ 0400 to hook up electric. Crew nearing Completion of decon.

Page #_____

LOG SHEET

Date: 4/23/93 24

Project Number: 5410-039

Industrial Hygienist: Ken Brown

Abatement Contractor/Supervisor: Retro Bob Gurecki

Time	Remarks
0350	crew takes short break. Microtraps will not be running until electrician hooks up electric. I gave Super OK to construct criticals above the ceiling.
0400	Electricians are here and they hook up electric. They ask if they can place plastic over their shoes instead of going in barefoot and I give them OK to do this.
0500	crew is inside Containment extending poly from LACP to Corrugated ceiling. Electricians are on 10th floor

Sample #	Location					f/cc
1A	Outside	W/A	Near	Rm 4013	1237.5	<0.004
2A	"	"	"	" 4022	"	0.005
3A	"	"	"	" 4103	"	<0.004
4A	"	"	"	" 4017	"	0.006
5A	"	"	Near	Rm 4010	"	<0.004
6A		—BLANK—			—	1 fiber
7A		—BLANK—			—	1 fiber

0600	Containment is Completed. Manometer reading .036 inches of Water. Crew will Start to Remove Ceiling panels After hepa Vaccuuming them.
0630	I Collect Area Samples.
0715	Crew finished removing panels from Containment. Off Site @ 0730.

Page #_____

LOG SHEET

Date: 4/24/93

Project Number: 6410-~~030~~ 029

Industrial Hygienist: B Hills

Abatement Contractor/Supervisor: ~~[illegible]~~ Retro

Time	Remarks
0700	IR on site
0730	IR on site in work area on 8th floor
	Relieved K. Brown.
0735	Had to make trip down to 1st floor as
	Retro was taking out ceiling tile and
	there was only 1 escort available
0750	IR placed area samples
0809	IR accompanied Retro inside WA to check
	criticals. Retro showed IR 2 areas that
	were not poly'd to the ceiling because
	no work would be done there. Also Retro
	showed IR sensitive electronic gear that
	could not be poly'd or washed but was
	covered with a sheet of unfastened poly.
	Electricians entered the ACA just before 0809
0835	IR out of ACA. No problems observed, the
	manometer is reading -0.04 in.
0930	Manometer reads -0.032 in
1030	IR analyzed inside sample and one area
	sample and found low fibers
1145	Electricians are coming out for lunch.
	Pipe fitters are going in.
1403	Chris Hetzner of Tunnel Const. introduced
	himself
1652	Manometer registering -0.024 in. IR analyzed
	the decon sample and found that area ok.
1700	IR into Containment to Carbeal is pulling off wall in
	SE room. Notified Retro

Page #_____

LOG SHEET

Date: 4/24/93

Project Number: 641008901

Industrial Hygienist: Ken Brown

Abatement Contractor/Supervisor: Retro ~~Bob~~ Bob Gurecki

Time	Remarks
1930	TTR on Site. I Relieve Bob Wells.
	Manometer Reading .028.
1935	I Set Area Samples And Inside
	Sample.
2030	Crew Working in Containment. Bob has
	Gone to Hechingers.
2130	Crew Still in Containment. Manometer Reading .03
2200	I Collect inside Sample.
2245	men enter Containment to replace Ceiling
	tiles. Crew is the Same as yesturday.
2330	2 men from retro are inside fine Cleaning
	Coakley Still inside replacing tiles.
	manometer Reading .02.

Sample#	Location	l	f/cc
16A	outside W/A near 8105	962.5	<0.005
17A	" " near 8053	"	"
18A	" " " 8010	"	"
19A	" " " 8017	"	"
20A	" " " 8004	"	"
21A	Inside W/A Just inside decon	350	"
22A	Final South Side just inside decon	1200	
23A	Final Large Rm South	1200	
24A	Final Large Rm North	1200	
25A	Final Small Rm NW Corner	1200	
26A	— BLANK —		0 fibers
27A	— Blank —		1 fiber

Page #_____

LOG SHEET

Date: 4/24/93

Project Number: 6410[illegible]001

Industrial Hygienist: Ken Brown

Abatement Contractor/Supervisor: Retro Bob Gurecki

Time	Remarks
2430	Coakley exits Containment they are done replacing tiles. Retro enters to fine clean.
0130	Crew inside Containment fine cleaning.
0200	I Collect area Samples prep, and analyze.
0300	I enter Containment for post Abatement Visual inspection and Give crew OK to encapsulate after Some minor Cleaning.
0330	I Set finals.
0530	I Collect, prep, and analyze finals off Site @ 0600.

Page # 1

LOG SHEET

Date: 4/30/93

Project Number: 6410-029

Industrial Hygienist: SCOTT DUNN

Abatement Contractor/Supervisor: RETRO ENVIRONMENTAL

Time	Remarks
1900	TTR ARRIVES ON SITE. DEMOBILE EQUIPMENT
1900-2200	ALL WORK PERFORMED IN NON-ASBESTOS CONTAINING MATERIAL
	AREA ON 10th FLOOR.
2200	RETRO STARTS PREPPING AREA. ONE LAYER OF PLASTIC ON WALLS.
	ONE LAYER OF PLASTIC ON FLOOR PLUS A DROP (PLASTIC) CLOTH.
2300	PREP WORK CONTINUES
0000 (5/1/93)	SAME.
0100	SAME.
0115	WORKERS GO TO LOADING DOCK AND GET MICROTRAPS AND
	DECON UNIT EQUIPMENT.
0200	PREP CONTINUES. ABOUT 80% COMPLETE.
0300	INITIAL ~~[illegible]~~ INSPECTION. COMPLETED. NO PROBLEMS ENCOUNTERED.
	WORKERS PULLING PERIMETER TILES FIRST, THEN SEALING PERIMETER
	ABOVE CEILING TILE
0330	WORKERS ENTER WORK AREA AND START PULLING TILES DOWN
0400-0420	TTR OBSERVES WORK PRACTICES IN CONTAINMENT. EVERYTHING OK.
	WORKERS HAVE PULLED PERIMETER TILES AND WERE INSTALLING
	CRITICAL BARRIERS ABOVE THE CEILING. WORKERS START SETTING
	UP MINI-CONTAINMENT IN ELEVATOR LOBBY. NEGATIVE PRESSURE: -0.012" w.g.
	3 OF 6 NEGATIVE AIR MACHINES IN OPERATION. OTHERS NOT OPERATING
	BECAUSE WORKERS NEED TO PUT UP CRITICALS. MACHINES WILL
	BE TURNED ON ONCE CRITICAL BARRIERS ARE IN PLACE.
0500	WORKERS HAVE SEALED CRITICAL BARRIERS ABOVE THE CEILING.
	WORKERS START VACUUMING tiles
0530	ANOTHER VISUAL INSPECTION OF WORK PRACTICES. WORKERS
	SEALED CRITICAL ABOVE CEILING. WORKERS HAVE REMOVED

Page # 2

LOG SHEET

Date: 1 MAY 1993 (cont. of 4/30/93)

Project Number: 6410-029

Industrial Hygienist: SCOTT DUNN

Abatement Contractor/Supervisor: RETRO ENVIRONMENTAL

Time	Remarks
0530 cont.	ALL TILE FROM GRID WORK; NOW HEPA VACUUMING TILES AND
	TRANSPORTING THEM OUT OF AREA. NEG. AIR PRESSURE AT
	-0.028" w.g.
0600	Workers continue w/vacuuming of tiles

Page # pg #1

LOG SHEET

Date: 5/1/93

Project Number: 6410-029

Industrial Hygienist: Joseph D Eichenlaub

Abatement Contractor/Supervisor: RETRO Environmental

Time	Remarks
6:40	arrived at NEOB Checked in and Ready to Go
6:50	Mike Larsen is on site for inspection
7:15	Scott Dunn showed me the work area and
	sampling locations from last night - new area
	samples have been set-up only one more
	area needs to be set-up and man as an
	escort freeis up I'll set-it up
7:20	Mike & Scott leaving site
7:55	One MAN Getting Ready to START Cleaning
	the Ceiling tile grid
8:45	RETRO SAME MAN Cleaning Grid no problems
	encountered - air sample set 9th Floor top of
	Stairwell #3 negative pressure exhaust
9:00	negative pressure -0.024
10:02	WORKERS ENTERING the CONTAINMENT to MARK
	sprinkler ties. No problem but Nothing
	has been started
10:45	Four people are inside the CONTAINMENT NO
	problems marking Sprinkler line, Cleaning
	Grid - removing lights
12:00	Workers are laying pipe inside the CONTAINMENT
	area no problems, workers are wearing suits and
	respirators negative pressure -0.032
12:30	MOST of the Crews are back from lunch
1:00	the sprinkler crew are still inside the
	CONTAINMENT area they are going to TAKE lunch

Page # 2

LOG SHEET

Date: 5/1

Project Number: 6410-029

Industrial Hygienist: Joseph D Eichenlaub

Abatement Contractor/Supervisor: RETRO AND Others

Time	Remarks
1:30	Sprinkler crew at lunch
1:50	electrician came down and removed a light, the sprinkler crew wanted a large light in the center removed, he refused to remove the light because it was heavy. the sprinkler crew said no asbestos was located above the plaster ceiling and removed a light out side the women's restroom 8112 - Spray-on asbestos is located above this area. air sample set-up, the sprinkler crew needs to place the main sprinkler line above. the asbestos above after visual inspection shows no damage told the sprinkler crew they can take the pipe up through the access but to use care and personal protective equipment and after the pipe is above the ceiling replace the light fixture and Exit according to Dan
2:43	negative pressure -0.032 RETRO Environmental had to retape some of the poly sheeting on the walls critical barriers holding up well
2:50	all of the pipe required to run the main through the elevator lobby is above the ceiling light fixture is going to be replaced shortly

Page # 3

LOG SHEET

Date: 5/1/93

Project Number: 6410-029

Industrial Hygienist: Joe Eichenlaub

Abatement Contractor/Supervisor:

Time	Remarks
3:30	light fixture has been Replaced no problems
	encountered - RETRO has been having
	problems Keeping poly barriers taped tight
	to the walls negative pressure -0.032
	if they turn off a negative air the pressure
	drops bellow -0.02
4:30	all of the air samples have been changed
	the Electrical Contractor NEEDS to buy some
	protective Clothing ??
5:30	RETRO starts Removal of light fixtures
	negative pressure below -0.02 workers
	try to correct the problem
	last nights Air sample 0.01 f/cc Today's
	will be analyzed by 6:30pm
6:00	all of the lights have been removed from the
	Containment area
6:15	work above the elevator lobby has stopped
	the Ceiling Plaster will not take the workers
	weight [redacted]
6:30	outside air samples for 7:00am - 7:00pm 0.01 f/cc
	negative Air pressure -0.032
6:45	Scott Dunn ARRIVES
7:00	END DAY Shift

Page # 1

LOG SHEET

Date: 5/1/93

Project Number: 6410 -029

Industrial Hygienist: SCOTT DUNN

Abatement Contractor/Supervisor: RETRO ENVIRONMENTAL

Time	Remarks
1845	TTR NIGHT SHIFT ON SITE. JOE EICHENLAUB NOTIFIES ME OF ALL THINGS WHICH OCCURRED DURING DAY SHIFT. WORKERS (SPRINKLER CONTRACTOR) INSIDE PRESSURE TESTING THE SYSTEM (SPRINKLER).
1930-1955	Observe work practices of all three contractors (sprinkler, ceiling tile person and Retro — everything ok, as far as work practices go. Pressure inside containment is still a problem workers repairing leaks in the containment. Filtration for water is being repaired. It's not pumping when it should Sprinkler contractor started pressure test (1945).
2005	Workers have removed critical in order for ceiling tile workers to place tiles. So obviously pressure has dropped (-0.004) When tiles are place pressure will be returned. There are 6 machines in containment + removal has been completed. Pressure will be checked again soon
2040	Pressure up to -0.012" w.g. Ceiling tile group still installing tiles on the perimeter where critical was.
2100	Grumley Superintendant inside as well as ceiling tile crew, electricians and abatement crew. Neg pressure: -0.020" wg.
2145	Sprinkler test complete. Asbestos contractor go inside to start fine cleaning. Electrical contractor still inside.
2200-2240	TTR inside containment to determine leaks in containment. All six machines are on high. Still no pressure. All material has been removed. Electrical contractor (2 men) inside work area completing work. Critical is down. Contractor (Elec) still working in area. All contractors will get together before the critical is to be pulled above

Page # 2

LOG SHEET

Date: 5/1/93

Project Number: 6410 - 029

Industrial Hygienist: SCOTT DUNN

Abatement Contractor/Supervisor: RETRO ENVIRONMENTAL

Time	Remarks
2200-2240	the ceiling.
2300	Electrical Contractor still in. Asbestos crew comes out for lunch and waits for electrical contractor
2330	Electrical contractor still in work area. Electrical Supervisor goes into containment.
0000 (5/2/93)	Spoke w/Herb Pankey 1-on-1 and Chris Hightower (Grundy) 1-on-1 about the pressure problem. It will not happen again. Air samples inside the containment during removal yesterday + today were less than 0.01 f/cc. There will be a meeting of all contractors involved above the ceiling will meet before the critical is to be removed (Pankey and Hightower were suggested this idea). Electrical contractor completed, however one tile not in place ~~[illegible]~~ around on sprinkler head. Air sample out side criticals will be analyzed soon to determine contamination. Since there is a low risk of exposure during the removal process it is not likely that outside samples will be a problem.
0050	Workers bagging out. Bags put on truck. Neg pressure back up to -0.024" w.g.
0130	Final Visual Inspection Starts. Few areas needed to be addressed (very minor at that). Workers clean areas which had debris. Workers begin encapsulation after FVI approves for Final Visual Inspection.
0150	Encapsulation begins.
0200	Encapsulation Completed.
0250	Encapsulant is dry and final air samples are set

Page # 3

LOG SHEET

Date: 5/2/93

Project Number: 6410-029

Industrial Hygienist: SCOTT DUNN

Abatement Contractor/Supervisor: Retro ENV.

Time	Remarks
0250 (cont)	up. Run for two hours and collect and analyze
0500	Final air samples collected and prepped for analysis
0520	All five final air samples meet NIOSH standard.
	(<0.01 f/cc). Contractor notified.
0600	TR off job site.

Page # 1

LOG SHEET

Date: 5/7/93 - 5/8/93

Project Number: 6410-029

Industrial Hygienist: Beaver

Abatement Contractor/Supervisor: Retro/ Bob - 5 workers

Time	Remarks
mJB ~~0700~~ 1900 -	On Site - Retro Setting up on 10TH Floor
	Herb Penny Video taping on 8TH Floor
mJB ~~0800~~ - 2000	Retro Begins Prep on the 8TH Floor.
mJB ~~0900~~ - 2100	Prep Continues
mJB ~~1100~~ - 2200	Prep Continues - I tell Chris Hightower
	that I will Not let him Breze up the
	Ceiling in elevator lobby without a full
	Containment.
mJB ~~1200~~ - 2400	Almost all of the Poly is Down at this
	time
mJB ~~1300~~ - 0100	Chris Hightower will Start Bringing in
	light Fixtures For the Electricians
mJB ~~1330~~ - 0130	Retro Begins to Put Air Filtration Devices
	into the Containment.
mJB ~~1430~~ - 0230	Workers Have all OF AFD's IN Space &
	are Working on Flex Duct & Power Cord's
mJB ~~1600~~ - 0400	Workers Begin to Go above Drop Ceiling
	and Begin to Seal Criticals - Grunley
	Changes Superintendents
0500 -	Cetrizk Are Sealed & Sealing tiles Begins
	to Come Down. Electricians are on TEN
	Doing Three Work - This Containment
	(10TH floor) Has Been Ready For Work
	Since 2100 hrs on 5/7/93
0600	M Larsen on site

Page # 2

LOG SHEET

Date: 5-8-93

Project Number: 6410-029-01

Industrial Hygienist: Golombeski

Abatement Contractor/Supervisor: Retro - RAUE

Time	Remarks
0700	Parked my car at the eclipse + began to walk to NEOB
0710	I signed in at NEOB + was escorted to the 8th Floor where the electricians are preparing the enter the containment. Mike Brower shows me where his samples are set up and gives me a low down of the project.
0730	Mike Brower off site until tonight
0800	Pipe fitter getting ready to enter the containment
0830	Bob Reeser on site
0900	Bob Reeser off site said to page him if anyone needs him.
0945	Sprinkler Men Marking of where they want the ACM Removed + then Retro will go in + vaccum the spots.
1010	Retro men beginning to suck the spray-on down with the hepa-vaccum
1200	- Pipe being sent into containment -
	- 5 lights left to look up
1205	- Retro on lunch break. Progress meeting will be held at 1300 hrs.
1300	Meeting on the third floor
1345	Meeting still in progress, I will change AHA samples when meeting is completed

Page # 3

1420

LOG SHEET

Date: 5-8-93

Project Number: 6410-029

Industrial Hygienist: Golombieski / Brower

Abatement Contractor/Supervisor: Retro - Dave

Time	Remarks
1410	Two Escorts came down to the meeting to ~~[illegible]~~ alert me that the containment had a breech. Dave + I went upstairs and it was a breech on the east end of the containment by the Decon. I will pull my sample and read them.
1430	I set up the 2nd set of area samples
1545	1st set area are read and all samples are < .01 f/cc. The electricians are finishing up + pipe fitters are still in containment.
1700	Retro is taking out some more old light fixtures. The pipe fitters are saying they may be done by 8 or 10 o'clock with their hydro-water testing.
1800	Herb Parky on site getting an update with Bob Reuver about the fight ~~early~~ earlier with Toby + John + that these guys will be ready again about 2000 hrs for the water test
1845-	Brower on Site at this time - Golombieski will be leaving shortly he is waiting for an Escort
2000-	Sprinkler Guys are finishing up on the 8th

Page # 4

LOG SHEET

Date: 5/8/93 - 5/9/93

Project Number: 6410-029-01

Industrial Hygienist: Beaver

Abatement Contractor/Supervisor: Retro/Bob

Time	Remarks
	Floor
2100 -	Water test Starts at this time - I will
	Begin to Pull Area Samples - Retro begins
	to Clean area - Cozzidy is Starting Ceiling
	tile
2245 -	tile is Complete
2345 -	I Go In For A Final Visual Inspection
2400 -	Containment looks Good - I will Let them
	Spray lock-back at this time.
0030 -	Starting to Run Final Air Samples
0225 -	Enter Containment to Pull Samples
0300 -	Samples are O.K. I will Get My
	things together & will Go
0330 -	OFF Site

Page # 1

LOG SHEET

Date: 5/21/93

Project Number: 6410-029

Industrial Hygienist: B Hills

Abatement Contractor/Supervisor: Retro

Time	Remarks
1900	IR on site. Waiting for rest of Retro crew so that we'll all be escorted at once. Escort doesn't know which floor. It's the 8th in the SW area
	Retro goes to the PH to bring down their equipment
1950	Retro taking pictures of area before containing. B. Reiser on site.
0540	IR checked containment. Crew fixing large area in SW office that was open to the ceiling plenum
	M. Larson on site inspecting ACA
	IR gave Retro permission to abate as soon as plenum is sealed. Negative air is down to below -0.02
0600	Retro having trouble with negative air. IR into containment to set made sample. Retro found an area above the drop ceiling that had not been sealed. This was done and neg air went down to -0.03 in. M. Larson offsite.
0700	M. Brower on site. B. Hills offsite

Page # 2

LOG SHEET

Date: May 22ND 1993

Project Number: 6410-029

Industrial Hygienist: Brower

Abatement Contractor/Supervisor: Retro/Dave

Time	Remarks
0700-	On Site with Bob wells - he explains to me what is Going on & Where Area Samples Are located. Workers Are Bringing out Ceiling tiles
0800-	Work Continues on Removing tiles - Bob From Retro is off Site.
0900-	Waiting on Sprinkler Guys to mark hanger locations - they Are on Break
1000-	Sprinkler men doing measurements Outside & marking hanger locations
1115-	Pipe Begins to Go in Fire Mains
1215-	Work Continues on Sprinkler System I will Go to Weekly progress meeting at 1300
1245-	OFF to Progress Meeting
1400-	Back From Progress meeting - I will Start my Area Samples & Read the inside Containment Samples!
1500-	Both Inside Containment Samples were above .01 f/cc - I tell Dave from Retro & he said that he will have one of his Workers Go into the Area & Do Some Cleaning - I am Going to Go in Shortly
1600-	Enter Containment

Page # 3

LOG SHEET

Date: 5/22/93

Project Number: 6410-029-01

Industrial Hygienist: Brower

Abatement Contractor/Supervisor: Retro / Dave

Time	Remarks
1620 -	Exit Containment - I found a fair amount of ACM on the floor where Sprinkler hangers were above. I instruct Retro to clean this up - Retro is taping poly to wall Negative pressure is pulling the walls Down

Page # 1

LOG SHEET

Date: 5/22/93 - 5/23/93

Project Number: 6410-029

Industrial Hygienist: B Wells

Abatement Contractor/Supervisor: Retro

Time	Remarks
1730	B Wells on site. M Brower finishing up analyzing a sample
1855	M. Brower off site after appraising B. Wells of the project progress.
1930	Plumbers are running the water pressure test at this time
2045	IR collected and analyzed area samples
2300	Retro ready for inspection. IR inspected and gave Retro permission to encapsulate
2340	IR set final clearance air samples
0200	IR collected and analyzed final samples. Fiber levels were less than EPA recommendation for clean air and IR gave Retro permission to return area to use

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: New EOB Project: 641003901

Location: 4th floor Date: 4/23/93

Removal Contractor: Retro Time Inspected: 0600

Monitoring Contractor: Tracor Time Work Started: 0630

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use		
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	/	
	e. Material Kept Wetted Until Bagged.	/	
4. Worker Protection	a. Disposable Clothing Used One Time.	/	
	b. Proper NIOSH respirators.	Disp /	
		HEPA	
		PAPR	
		TYP"C"	
	c. Proper Decontamination Sequence Followed	/	
5. Showers	a. Functioning?	/	
	b. Soap and Towels?	/	
	c. Used Each Departure?	/	
6. Work Habits In Work Area	a. No Smoking	/	
	b. No Eating/Drinking	/	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: Ken Brown Date: 4/26/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: New E.O.B.

Project: 641029001

Location: 8th floor

Date: 4/23/93

Removal Contractor: Retro

Time Started: 1900

Monitoring Contractor: Tracor

Time Stopped: 0730

Inspection Catagory	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	/	
	b. Decontamination Curtains	/	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	/	
	e. "Negative air machine" in use	/	
	f. Negative pressure > .03"	/	
2. Signage	a. Caution Signs at vestibule entry.	/	
	b. OSHA SIGN (ASBESTOS)	/	
	c. Dumpster, ducts, drums, and bags labelled	N/A	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	/	
	b. Removed Material Promptly Bagged.	N/A	
	c. Debris Stored in removal area.	N/A	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	/	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	/	
	b. Proper NIOSH respirators.	Disp /	
		HEPA	
		PAPR	
		TYP"C"	
	c. Proper Decontamination Sequence Followed	/	
5. Showers	a. Functioning?	/	
	b. Soap and Towels?	/	
	c. Used Each Departure?	/	
6. Work Habits In Work Area	a. No Smoking	/	
	b. No Eating/Drinking	/	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: Ken Brown Date: 4/23/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: 6410-~~038~~ 029-01

Location: 8th floor

Date: 7/24/93

Removal Contractor: Retro

Time Started: 0700

Monitoring Contractor: Tracor

Time Stopped: _____

Inspection Catagory	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	na	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	na	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA 1/2 face PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Sells Date: 4/24/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: New EOB

Location: 4th floor

Removal Contractor: Retro

Monitoring Contractor: Tracor

Project: 641029001

Date: 4/24/93

Time Started: 1900

Time Stopped: 0600

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	/	
	b. Decontamination Curtains	/	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	/	
	e. "Negative air machine" in use	/	
	f. Negative pressure > .03"	/	
2. Signage	a. Caution Signs at vestibule entry.	/	
	b. OSHA SIGN (ASBESTOS)	/	
	c. Dumpster, ducts, drums, and bags labelled	/	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	/	
	b. Removed Material Promptly Bagged.	/	
	c. Debris Stored in removal area.	/	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 4/24/93

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: New EOB Project: GA1099001

Location: 8th floor Date: 4/24/93

Removal Contractor: Retro Time Inspected: 0300

Monitoring Contractor: Tracor Time Completed: 0315

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	✓	
	d. Ventilation Equipment.	✓	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	✓	
	g. Ductwork.	✓	
	h. Registers	✓	
	i. Lights.	✓	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	22A	23A	24A	25A	
Location:	8th	8th	8th	8th	
Volume (Liters):	1200	1200	1200	1200	
Flow rate: (Liters/Minute)	10	10	10	10	
Fibers/Filter:	1	4	2	4	
Fibers/Cubic Cm:	<0.004	<0.004	<0.004	<0.004	

ANALYST ANALYZING SAMPLES: Ken Brown DATE: 4/24/93

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: Ken Brown Date: 4/24/93

REPORT REVIEWED BY: _____ DATE: _____

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEW EXECUTIVE OFFICE BUILDING Project: 6410-029

Location: 8th FLOOR - NEAR ELEVATOR LOBBY Date: 04/30/93

Removal Contractor: RETRO ENVIRONMENTAL Time Inspected: 0300

Monitoring Contractor: TRAILOR TECH. RESOURCES Time Work Started: 0330

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	✓	
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: SCOTT DUNN Date: 05/01/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEW EXECUTIVE OFFICE BUILDING **Project:** 6410-029

Location: 8th FLOOR - NEAR Elevator Lobby **Date:** 04/30/93

Removal Contractor: RETRO ENVIRONMENTAL **Time Started:** 0330

Monitoring Contractor: TTR **Time Stopped:** 0700

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure ~~> .03"~~ > 0.02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: SCOTT DUNN Date: 05/01/93

Exhibit B

CTH

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: Sprinklers

Location: 8th floor.

Date: 5-1-93

Removal Contractor: Retro Env

Time Started: 3:30 A.M

Monitoring Contractor: Tracop Technology

Time Stopped:

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	Ducts obstructing stairwell #3
	f. Negative pressure > .03"	0.03"	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	~~60-80~~ bags properly labeled removed each weekend.	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	Powder actuated tools
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No GFCI in use - check 1926. - GFCI in panel box. -
Flex duct from neg. air machine run from 8th floor to landing - obstructing stairwell - Duct cut back to landing -

Report Prepared By: [signature] Date: 5-1-93 6:30 A.M.

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: Sprinkler

Location: 8th Floor

Date: 5/1/93

Removal Contractor: RETRO

Time Started: 7:00 AM

Monitoring Contractor: Tracor

Time Stopped: 7:00 pm

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	Tape would not hold to the walls that well Needs to be Glued ~~onto~~ as well as Duct Taped
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	NA	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	Several problems through out the day - RETRO have however Corrected the problem quickly
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	lights were HEPA Vacuumed and WET Wipe before Removed From Containment Area
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	NA	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	Electrical Contractor ~~Needs~~ should have Some Protective Clothing; even when they are working in non-Asbestos Section (8th Floor Lobby)
	b. Proper NIOSH respirators.	Disp ✓ HEPA PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: Joseph D Eichenlaub Date: 5/1/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEW EXECUTIVE OFFICE BUILDING Project: SPRINKLER

Location: 8th Floor Date: 5/1/93 [NIGHT]

Removal Contractor: RETRO ENVIRONMENTAL Time Started: 1900

Monitoring Contractor: TTR Time Stopped: 0300

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03" ~~[illegible]~~ > 0.02"		✓ – throughout night – SEE NOTES
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Retro pulled critical barrier before electrician finished work - therefore 6 machines could not maintain any negative pressure. All removal has been completed and passed removed. See Field Note for more details

Report Prepared By: [signature] Date: 05/02/93

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: New EOB Project: Sprinkler

Location: 8th Floor Date: 05/02/93

Removal Contractor: RETRO ENV. Time Inspected: 0130

Monitoring Contractor: _____ Time Completed: _____

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	N/A	
	d. Ventilation Equipment.	✓	
(above eye level)	e. Horizontal surfaces.	✓	except above suspended ceiling
	f. Pipes.		
	g. Ductwork.		
	h. Registers	✓	
	i. Lights.	✓	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:					
Location:	Inside →				
Volume (Liters):					
Flow rate: (Liters/Minute)	10	10	10	10	10
Fibers/Filter:					
Fibers/Cubic Cm:					

ANALYST ANALYZING SAMPLES: Scott Dunn DATE: 5/2/93

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: Scott Dunn Date: 5/02/93

REPORT REVIEWED BY: _____ DATE: _____

Exhibit B

CIH

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: New EOB

Project: 6410-029-01

Location: 8th Floor

Date: 5-8-93

Removal Contractor: Petro

Time Started: 0600

Monitoring Contractor: Tracor

Time Stopped:

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier		✓
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use		✓
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	Ceiling tiles in 8th floor elevator lobby.	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

HI)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

South stairwell - flex duct from neg. air machine obstructs 8th floor landing - Duct moved to allow access to 7th floor
South office space - breach in containment - (R) side - 5 ft. up. Repaired with duct tape - pressure 0.030 → 0.034

Report Prepared By: [signature] Date: 5/18/93

10

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: New EOB Project: 6410-029

Location: 8th Floor Date: 5/7 - 5/8

Removal Contractor: Retro Time Started: 1900 - 5/7

Monitoring Contractor: TRACOR Time Stopped: 0700 - 5/8

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier		✓
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > ~~.03"~~ .02	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)		
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	All but ceiling tile	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 5/7/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6410-029-01

Location: 8th Floor Date: 5-8-93

Removal Contractor: Refro Time Started: 0700

Monitoring Contractor: TTR Time Stopped: 1900

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	.024	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.		
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 5-8-93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEDB

Project: 6410-029-01

Location: 6th floor

Date: 5/8/93 - 5/9/93

Removal Contractor: Retro

Time Started: 1900

Monitoring Contractor: Terra

Time Stopped: 0330 - 5/9/93

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > ~~.03~~ .02	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP "C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 5/8/93

RETRO ENVIRONMENTAL M21-24-107
NEW EXECUTIVE OFFICE BUILDING
725 17TH STREET
WASHINGTON, D.C.
ACM F/P SPRAY & POLY, 05-09-1993

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 6H10-029-01

Location: 8TH Floor Date: 5/8/93 - 5/9

Removal Contractor: RETRO Time Inspected: 2345

Monitoring Contractor: TRACOR Time Completed: 2400

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	N/A	
	d. Ventilation Equipment.	✓	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	N/A	
	g. Ductwork.	✓	✓
	h. Registers	✓	
	i. Lights.	✓	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	15	16	17	18	
Location:					
Volume (Liters):	1200	1200	1200	1200	
Flow rate: (Liters/Minute)	10.0	10.0	10.0	10.0	
Fibers/Filter:	3.5	5	4	4	
Fibers/Cubic Cm:	<.004	<.004	<.004	<.004	

ANALYST ANALYZING SAMPLES: [signature] DATE: 5/9/93

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 5/9/93

REPORT REVIEWED BY: _____ DATE: _____

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB Project: 6410-029-01

Location: 8th floor SW area Date: 5/21/93

Removal Contractor: Ad Retro Time Inspected: 0530

Monitoring Contractor: Tracor Time Work Started: 0550

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. Seals around ducts, windows and doors	yes	
	d. Vertical and Horizontal Openings	yes	
	e. "Microtrap" in use	yes	
	f. Negative pressure > .02"	yes	
2. Signage	a. Caution Signs at vestibule entry.	no	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Matarial Kept Wetted Until Bagged.	yes	
4. Worker Protection			
	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ____ HEPA ____ PAPR ____ TYP"C" ____	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: B Fells Date: 5/21/93

Exhibit A

CIH

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: New Exec Office Bldg. Project: 6410-029-01

Location: 8th Floor - SW Date: 5-22-93

Removal Contractor: Petro Time Inspected: 0600

Monitoring Contractor: Tracor Time Work Started: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	✓	
	f. Negative pressure > .02"	.024	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Access could not be obtained thru OMB space to place pumps adjacent to work space.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: [signature] C.H. Date: 5-22-93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: 6410-029-01

Location: 8th floor SW area

Date: 5/21/93

Removal Contractor: Retro

Time Started: 1900

Monitoring Contractor: Tracor

Time Stopped:

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	na	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	na	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ___ HEPA ___ PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Hall Date: 5/21/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: 6410-029-01

Location: 8th Floor SW AREA

Date: 5/22/93

Removal Contractor: Retro

Time Started: 0700

Monitoring Contractor: Trzcor

Time Stopped: 1900

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	NO	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > ~~.08"~~ .026	yes	
2. Signage	a. Caution Signs at vestibule entry.	~~yes~~ NO MYB	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	Yes	
	e. Material Kept Wetted Until Bagged.	Yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	Yes	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	Yes	
5. Showers	a. Functioning?	Yes	
	b. Soap and Towels?	Yes	
	c. Used Each Departure?	Yes	
6. Work Habits In Work Area	a. No Smoking	Yes	
	b. No Eating/Drinking	Yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 5/22/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6410-025-01

Location: 8th floor SW area Date: 5/23/93

Removal Contractor: Retro Time Started: 1900

Monitoring Contractor: Tracor Time Stopped: _____

Inspection Catagory	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	no	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	no	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA Tyvek PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Stell Date: 5/22/93

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 6410-029-01

Location: 8th floor SW area Date: 5/23/93

Removal Contractor: Retro Time Inspected: 1300

Monitoring Contractor: Tracor Time Completed: 2315

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	yes	
	b. Horizontal Surfaces.	yes	
	c. Pipes.	na	
	d. Ventilation Equipment.	na	
(above eye level)	e. Horizontal surfaces.	yes	
	f. Pipes.	na	
	g. Ductwork.	yes	
	h. Registers	yes	
	i. Lights.	yes	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	15	16	17	18	
Location:	inside WA	inside WA	inside WA	inside WA	
Volume (Liters):	1210	1200	1200	1200	
Flow rate: (Liters/Minute)	10	10	10	10	
Fibers/Filter:	1	4.5	7	4	
Fibers/Cubic Cm:	<0.004	<0.004	<0.004	<0.004	

ANALYST ANALYZING SAMPLES: B Hells DATE: 5/23/93

Field Notes:
"Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B. Hells Date: 5/23/93

REPORT REVIEWED BY: _____ DATE: _____

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB

Project: 6410-029-01

Location: 8th Floor

Date: 5/8/93

Removal Contractor: Peteo

Time Inspected: 0500

Monitoring Contractor: Trecor

Time Work Started: 0510

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	✓	
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: [illegible] Date: 5/8/93

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

04/26/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
641002901	151593	1	04/23/93	OUT	< 0.004
641002901	151693	2	04/23/93	OUT	0.005
641002901	151793	3	04/23/93	OUT	< 0.004
641002901	151893	4	04/23/93	OUT	0.007
641002901	151993	5	04/23/93	OUT	< 0.004
641002901	152093	6	04/23/93	BLK	BLANK= 1.00
641002901	152193	7	04/23/93	BLK	BLANK= 1.00

KEY: BKG BACKGROUND
FIN FINAL
PER PERSONAL
GVB GLOVE BAG
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY
MICHAEL L. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

04/27/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
641002901	150193	8A	04/22/93	OUT	< 0.005
641002901	150293	9A	04/22/93	OUT	< 0.005
641002901	150393	10A	04/22/93	OUT	< 0.005
641002901	150493	11A	04/22/93	OUT	< 0.005

KEY: BKG BACKGROUND
FIN FINAL
PER PERSONAL
GVB GLOVE BAG
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

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LABORATORY MANAGER

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ROCKVILLE, MARYLAND 20850

04/27/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
641002901	149793	12A	04/24/93	INS	< 0.020
641002901	149893	13A	04/24/93	OUT	< 0.005
641002901	149993	14A	04/24/93	OUT	BLANK= 0.00
641002901	150093	15A	04/24/93	OUT	BLANK= 0.00

KEY: BKG BACKGROUND
FIN FINAL
PER PERSONAL
GVB GLOVE BAG
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY
MICHAEL J. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

04/26/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
641002901	152293	16	04/24/93	OUT	< 0.005
641002901	152393	17	04/24/93	OUT	< 0.005
641002901	152493	18	04/24/93	OUT	< 0.005
641002901	152593	19	04/24/93	OUT	< 0.005
641002901	152693	20	04/24/93	OUT	< 0.005
641002901	152793	21	04/24/93	INS	< 0.014
641002901	152893	22	04/24/93	FIN	< 0.004
641002901	152993	23	04/24/93	FIN	< 0.004
641002901	153093	24	04/24/93	FIN	< 0.004
641002901	153193	25	04/24/93	FIN	< 0.004
641002901	153293	26	04/24/93	BLK	BLANK= 0.00
641002901	153393	27	04/24/93	BLK	BLANK= 1.00

KEY: BKG BACKGROUND
FIN FINAL
PER PERSONAL
GVB GLOVE BAG
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL L. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

05/03/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
641002901	163693	1	04/30/93	INS	< 0.007
641002901	163793	2	04/30/93	OUT	< 0.003
641002901	163893	3	04/30/93	OUT	< 0.002
641002901	163993	4	04/30/93	OUT	< 0.002
641002901	164093	5	04/30/93	OUT	< 0.002
641002901	164193	6	04/30/93	OUT	< 0.002
641002901	164293	1	05/01/93	OUT	< 0.004
641002901	164393	2	05/01/93	OUT	< 0.003
641002901	164493	3	05/01/93	OUT	< 0.004
641002901	164593	4	05/01/93	OUT	< 0.004
641002901	164693	5	05/01/93	OUT	< 0.004
641002901	164793	6	05/01/93	INS	0.010
641002901	164893	7	05/01/93	OUT	< 0.006
641002901	164993	8	05/02/93	INS	0.010
641002901	165093	9	05/02/93	OUT	< 0.003
641002901	165193	10	05/02/93	OUT	< 0.003
641002901	165293	11	05/02/93	OUT	< 0.003
641002901	165393	12	05/02/93	OUT	< 0.003
641002901	165493	13	05/02/93	FIN	< 0.004
641002901	165593	14	05/02/93	FIN	< 0.004
641002901	165693	15	05/02/93	FIN	< 0.004
641002901	165793	16	05/02/93	FIN	< 0.004
641002901	165893	17	05/02/93	FIN	< 0.004

KEY:
- BKG BACKGROUND
- FIN FINAL
- PER PERSONAL
- GVB GLOVE BAG
- INS INSIDE CONTAINMENT
- OUT OUTSIDE CONTAINMENT

APPROVED BY
MICHAEL L. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

05/11/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
641002901	178793	1	05/08/93	OUT	< 0.004
641002901	178893	2	05/08/93	OUT	< 0.004
641002901	178993	3	05/08/93	OUT	< 0.004
641002901	179093	4	05/08/93	OUT	< 0.004
641002901	179193	5	05/08/93	OUT	< 0.004
641002901	179293	6	05/08/93	INS	< 0.008
641002901	179393	7	05/08/93	OUT	BLANK= 0.50
641002901	179493	8	05/08/93	OUT	BLANK= 1.50
641002901	179593	9	05/08/93	OUT	0.005
641002901	179693	10	05/08/93	OUT	0.006
641002901	179793	11	05/08/93	OUT	0.007
641002901	179893	12	05/08/93	OUT	< 0.005
641002901	179993	13	05/08/93	OUT	< 0.005
641002901	180093	14	05/08/93	INS	0.007
641002901	180193	15	05/08/93	FIN	< 0.004
641002901	180293	16	05/08/93	FIN	< 0.004
641002901	180393	17	05/08/93	FIN	< 0.004
641002901	180493	18	05/08/93	FIN	< 0.004
641002901	180593	19	05/08/93	OUT	BLANK= 1.00
641002901	180693	20	05/08/93	OUT	BLANK= 1.00

KEY: BKG BACKGROUND
FIN FINAL
PER PERSONAL
GVB GLOVE BAG
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL L. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

05/24/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
641002901	187393	1	05/22/93	OUT	0.005
641002901	187493	2	05/22/93	OUT	< 0.005
641002901	187593	3	05/22/93	OUT	< 0.005
641002901	187693	4	05/22/93	OUT	< 0.005
641002901	187793	5	05/22/93	INS	0.021
641002901	187893	6	05/22/93	OUT	< 0.005
641002901	187993	7	05/22/93	INS	0.015
641002901	188093	8	05/22/93	OUT	0.005
641002901	188193	9	05/23/93	OUT	< 0.005
641002901	188293	10	05/23/93	OUT	< 0.005
641002901	188393	11	05/23/93	OUT	< 0.005
641002901	188493	12	05/23/93	OUT	BLANK= 0.00
641002901	188593	13	05/23/93	OUT	BLANK= 0.00
641002901	188693	14	05/23/93	OUT	< 0.004
641002901	188793	15	05/23/93	FIN	< 0.004
641002901	188893	16	05/23/93	FIN	< 0.004
641002901	188993	17	05/23/93	FIN	< 0.004
641002901	189093	18	05/23/93	FIN	< 0.004

KEY:
- BKG BACKGROUND
- FIN FINAL
- PER PERSONAL
- GVB GLOVE BAG
- INS INSIDE CONTAINMENT
- OUT OUTSIDE CONTAINMENT

APPROVED BY

MICHAEL L. EDWARDS
LABORATORY MANAGER

Tracor [redacted] **Air Sample Sheet**

Project # 6.4.1.0.2.9.0.1

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	151593	1A	92-12	2.5	2.5	2.5	2215	0630	495	1237.5	10.5	100	1	9.5	<0.004
A	Notes: Outside W/A on Corner of Hallway intersection Near Rm 8013														
B	151693	2A	92-11	2.5	2.5	2.5	2215	0630	495	1237.5	14	100	1	13	0.005
B	Notes: Outside W/A near Rm 8022 Communications														
C	151793	3A	92-09	2.5	2.5	2.5	2215	0630	495	1237.5	5.5	100	1	4.5	<0.004
C	Notes: Outside W/A Near Rm. 8103														
D	151893	4A	92-10	2.5	2.5	2.5	2215	0630	495	1237.5	17.5	100	1	16.5	0.007
D	Notes: Outside W/A near Rm 8017														

Field Area: (Check One) ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

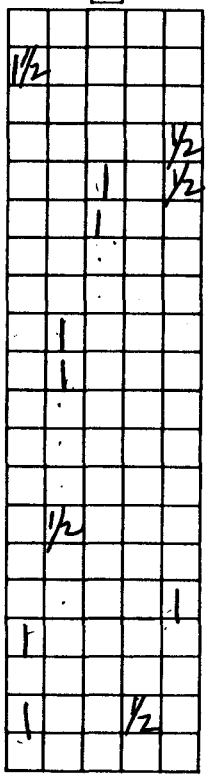
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

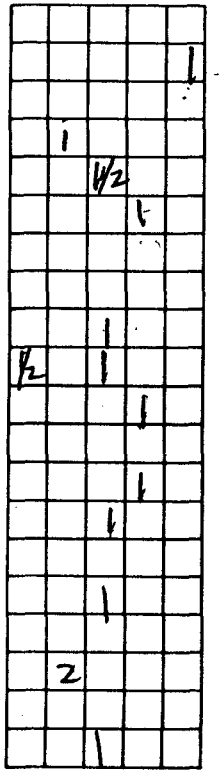
Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A



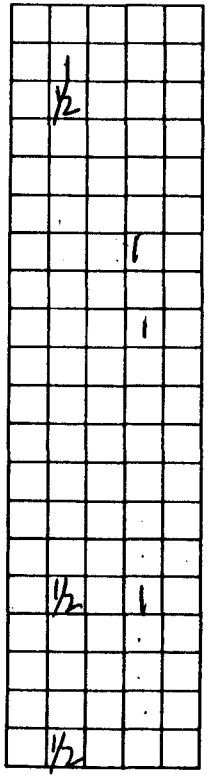
10.5/100

B



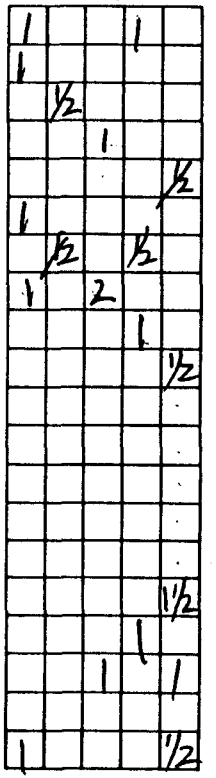
14/100

C



5.5/100

D



17.5/100

Ken Brown 4/23/93
FIELD TECH. DATE

Ken Brown 4/23/93
ANALYST DATE

Tracor [redacted] Air Sample Sheet

Project # 6.4.1.0.29.0.0.1.

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	151993	5A	9213	2.5	2.5	2.5	2215	0630	495	1237.5	5.5	100	1	4.5	0.004
A	Notes: Outside W/A near Rm, 601														
B	152093	6A										100	1		
B	Notes: -Blank-														
C	152193	7A										100	1		
C	Notes: -Blank-														
D															
D	Notes:														

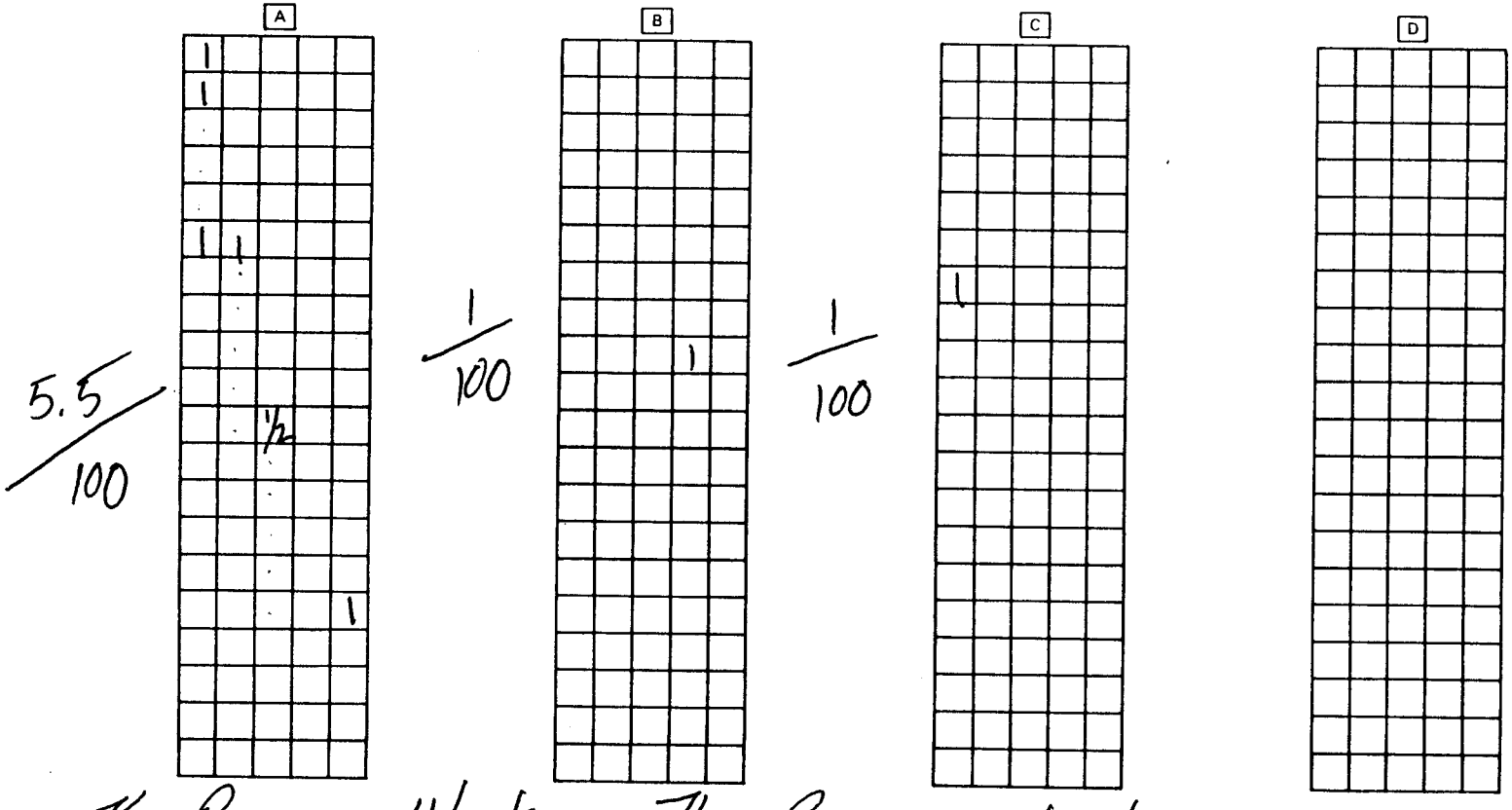
Field Area: (Check One) ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Ken Brown 4/23/93
FIELD TECH. DATE

Ken Brown 4/23/93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6410-~~030~~ 029 BW -01

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	150193	8A	1	2.5	2.5	2.5	0750	1414	384	960	5	100	0	5	<0.005
A	Notes: Area - elevator lobby														
B	150293	9A		2.5	2.5	2.5	0756	1420	384	960	7	100	0	7	<0.005
B	Notes: Area - In decon														
C	150393	10A	34	2.5	2.5	2.5	0800	1424	384	960	3	100	0	3	<0.005
C	Notes: Area at room ~~8016~~ BW 8010														
D	150493	11A	61	2.5	2.5	2.5	0805	1429	384	960	6.5	100	0	6.5	<0.005
D	Notes: Area - In room 8016														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

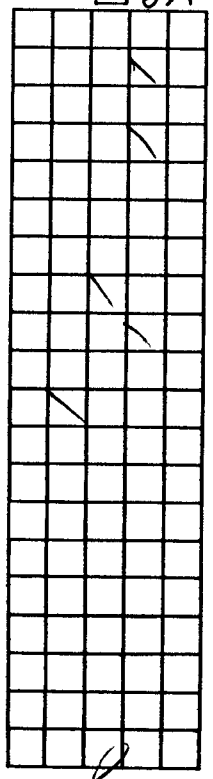
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

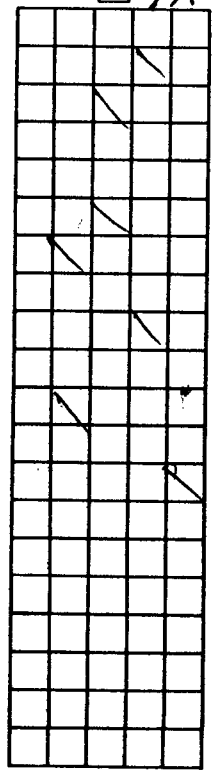
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

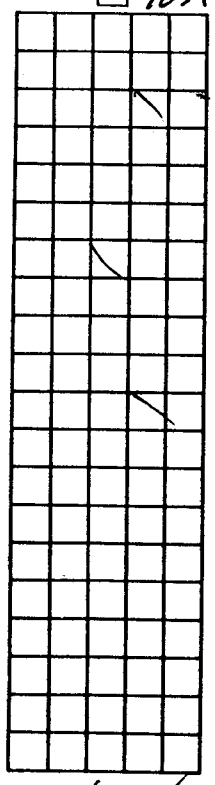
A 8A



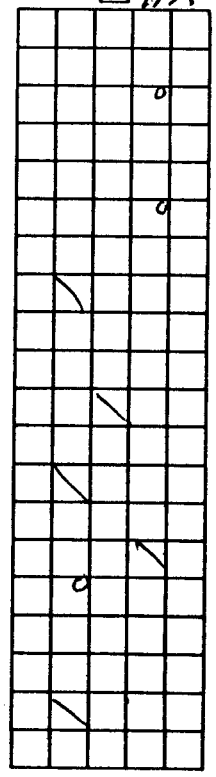
B 9A



C 10A



D 11A



B Stells 4/22/93
FIELD TECH. DATE

B Stell 4/22/93
ANALYST DATE

6410-030-01

Tracor Technology Resources — Air Sample Sheet

Project #

1601 Research Boulevard
Rockville, Maryland 20850

	Log # BW	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
149793 A	~~930031~~	12A	17	2.5	2.5	2.5	0828	1004	96	240	5.5	100	0	5.5	<0.020
A Notes:	Inside WA														
B	149893	13A	1119	10	10	10	0834	1010	96	960	7	100	0	7	<0.005
B Notes:	Area - on door of 8102														
C	149993	14A									0	100	0		
C Notes:	Blank														
D	150093	15A									0	100	0		
D Notes:	Blank														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

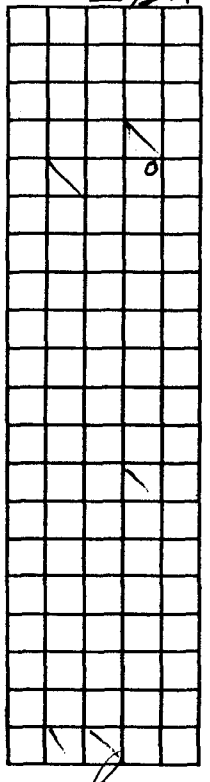
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

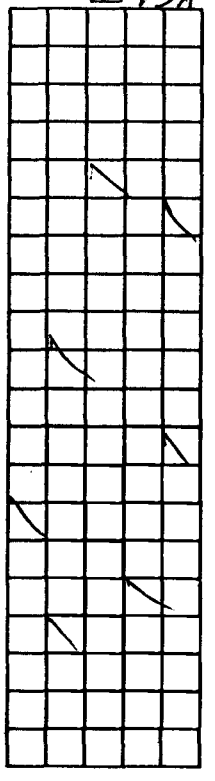
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

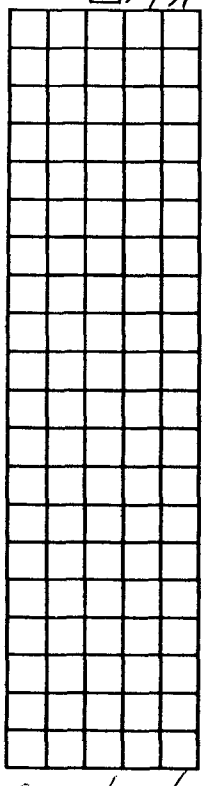
A 12A



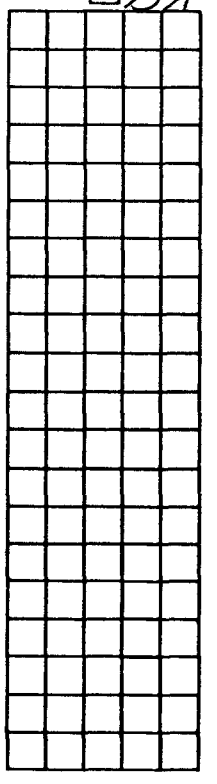
B 13A



C 14A



D 15A



B Stells 4/24/93
FIELD TECH. DATE

B Stells 4/24/93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6.4.1.02.90.01.1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Mean	Liters/Min	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	152293	16A	92-10	2.5	2.5	2.5		1935	0200	385	962.5	5	100	.5	4.5	<0.005
A	Notes: Outside W/A Near Men's Rm 8105															
B	152393	17A	92-12	2.5	2.5	2.5		1935	0200	385	962.5	4.5	100	.5	4	<0.005
B	Notes: Outside W/A Corner Accross From 8013															
C	152493	18A	92-09	2.5	2.5	2.5		1935	0200	385	962.5	2.5	100	.5	2	<0.005
C	Notes: Outside W/A Near Rm 8010															
D	152593	19A	92-11	2.5	2.5	2.5		1935	0200	385	962.5	6	100	.5	5.5	<0.005
D	Notes: Outside W/A Near Rm 8017 near Decon															

Field Area: (Check One) ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

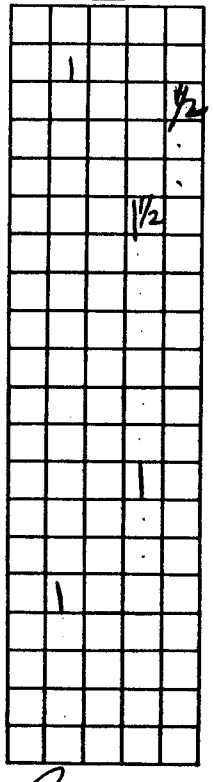
Calculations: Mean Flow = $\frac{\text{Pre + Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

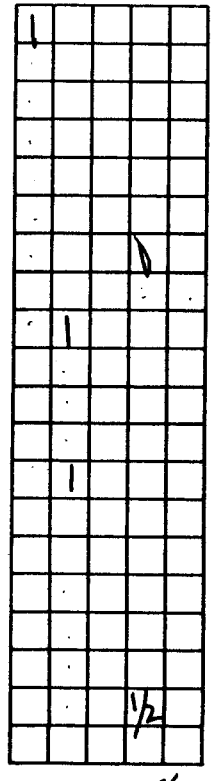
Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A



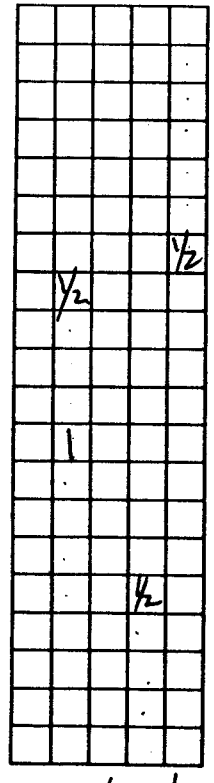
5/100

B



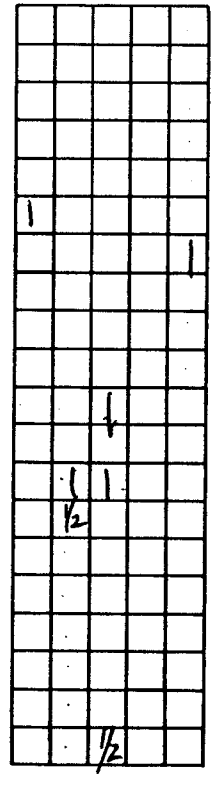
4.5/100

C



2.5/100

D



6/100

Ken Brown 4/24/93
FIELD TECH. DATE

Ken Brown 4/24/93
ANALYST DATE

Tracor [redacted] Air Sample Sheet

Project # 6,4,1,0,2,9,0,0,1,

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	152693	20A	92054	2.5	2.5	2.5	1935	2200	345	962.5	6.5	100	.5	.5	<0.005
A	Notes: Out Side W/A Near mech. Rm. 4004														
B	152793	21A	92-13	2.5	2.5	2.5	1940	2200	140	350	5.5	100	.5	.5	~~<0.005~~ <0.014 KLB
B	Notes: Inside W/A Just Inside Decon														
C	152493	22A		10	10	10	0330	0530	120	1200	1	100	.5	.5	<0.004
C	Notes: Final South Side Just inside Decon.														
D	152493	23A		10	10	10	0330	0530	120	1200	4	100	.5	.5	<0.004
D	Notes: Final Large Rm South.														

Field Area: (Check One) ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

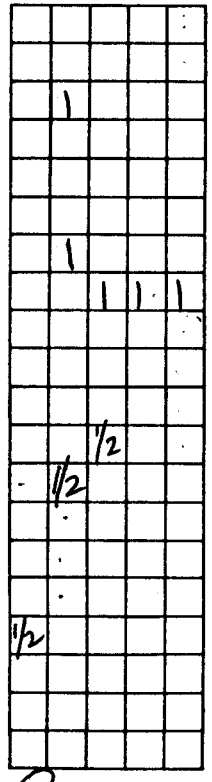
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

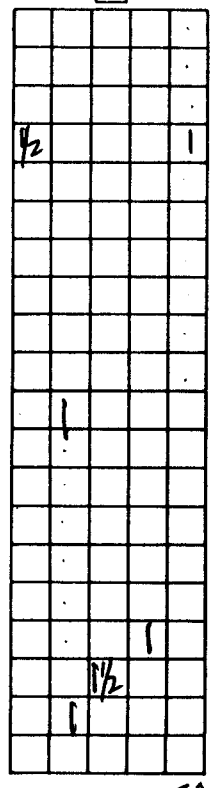
Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A



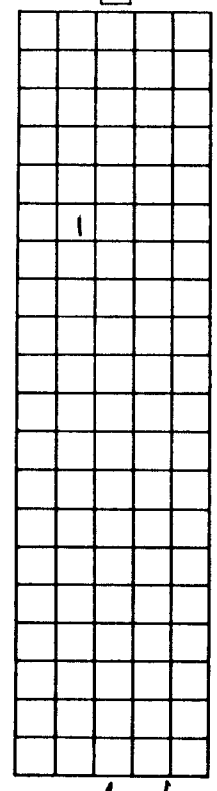
6.5/100

B



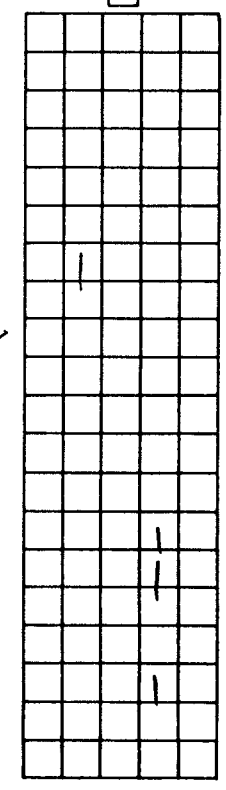
5.5/100

C



1/100

D



4/100

Ken Brown 4/24/93
FIELD TECH. DATE

Ken Brown 4/24/93
ANALYST DATE

Tracor [redacted] — Air Sample Sheet

Project # 6.4.1.0.8.8.0.0.1.1.

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	153093	24A		10	10	10	0330	0530	120	1200	2	100	.5	1.5	<0.004
A	Notes: Final Large Rm North														
B	153193	25A		10	10	10	0330	0530	120	1200	4	100	.5	3.5	<0.004
B	Notes: Final Small Rm NW Corner														
C	153293	26A									0	100	0		
C	Notes: —Blank—														
D	153393	27A									1	100	1		
D	Notes: —Blank—														

Field Area: (Check One) ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

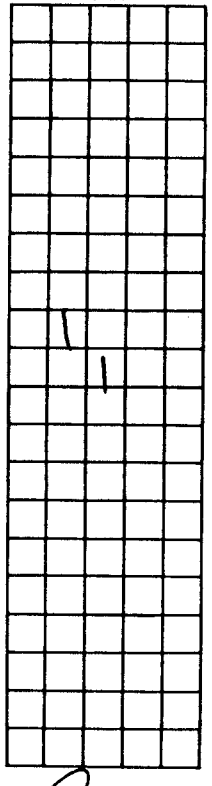
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

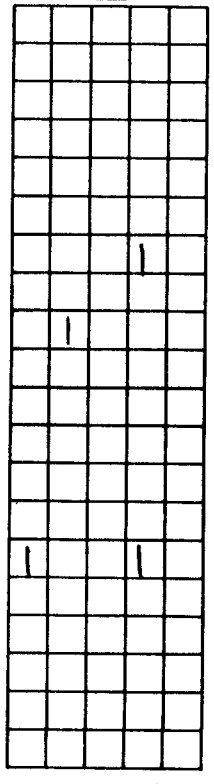
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

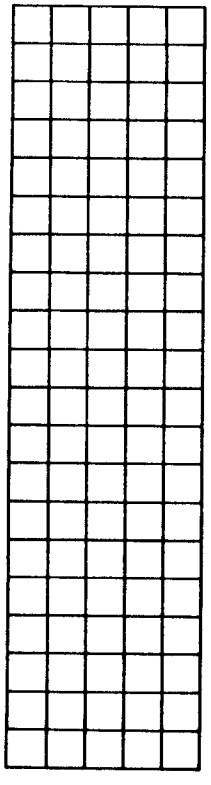
A: 2/100



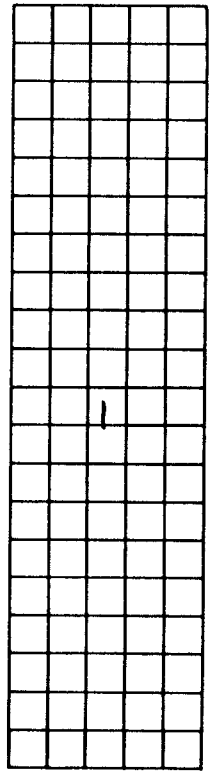
B: 4/100



C: 0/100



D: 1/100



Ken Brown 4/24/93
FIELD TECH. DATE

Ken Brown 4/24/93
ANALYST DATE

Tracer Technology Resources — **Air Sample Sheet**

Project # 6,4,1,0,0,2,9,

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc	
A	163693	01	FG3	2.5	2.5	2.5	0300	—	269		8½	100	—	8½	0.01	<0.007
A	Notes: INSIDE CONTAINED AREA (Rms. 8018, 8016, 8101, 8103)															
B	163793	02	7937	10.0	10.0	10.0	0340	0648	1880	1880	7	100	—	7	0.01	<0.003
B	Notes: OUTSIDE DECON UNIT @ Elevator LOBBY															
C	163893	03	7950	10.0	10.0	10.0	0317	0704	2270	2270	2	100	—	2	0.01	<0.002
C	Notes: ~~Room~~ OUTSIDE CRITICAL BARRIER @ Room 8012															
D	163993	04	7935	10.0	10.0	10.0	0319	0705	2260	2260	1	100	—	1	0.01	<0.002
D	Notes: INSIDE COPY ROOM (Rm.															

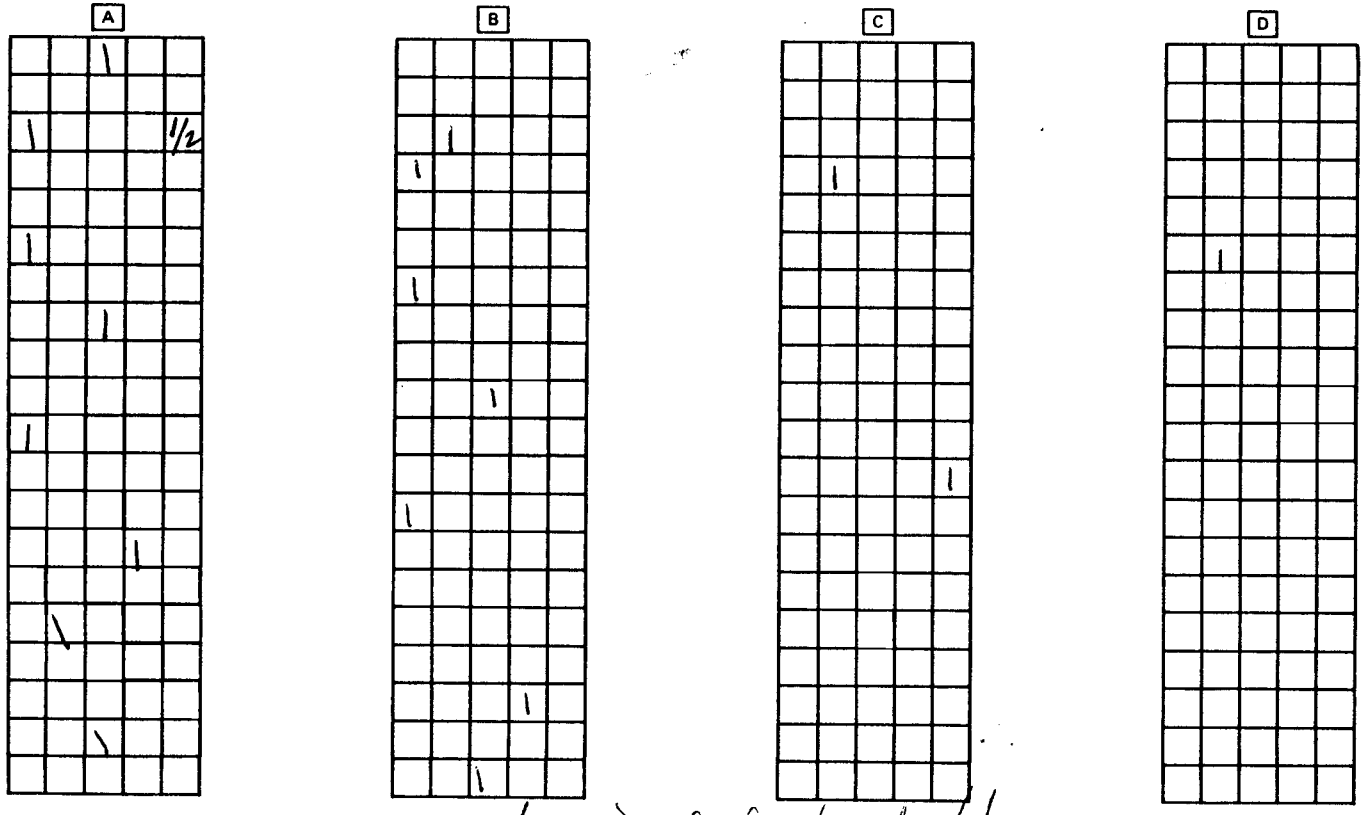
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Scott Dunn — FIELD TECH. — 5/1/93 DATE

Joseph D Eichenlaub — ANALYST — 5/1/93 DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6,4,1,0,0,2,9,

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Mean	Liters/Min	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc	
A	164093	05	92249	10	10	10		0330	0700	2110	2110	0	100	—	0	0.01	<0.002
A	Notes: OUTSIDE CRITICAL BARR. / MICROTRAP EXHAUST AREA @ Room 8020																
B	164193	06	7951	10	10	10		0336	0659	203	2030	0	100	—	0	0.01	<0.002
B	Notes: INSIDE Room 8020 – CONFERENCE ROOM (ADJACENT WALL TO contained area)																
C																	
C	Notes:																
D																	
D	Notes:																

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

B

C

D

SCOTT DUNN — FIELD TECH. — 5/1/93 DATE

Joseph D Eichenlaub — ANALYST — 5/1/93 DATE

NEOB

Tracor Technology Resources — **Air Sample Sheet**

Project # 64,1,0,0,2,9

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Mean (Liters/Min)	Time (Military) On	Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc	
A	164293	A1	5969	2.5	2.5	2.5	6:42	—	524		4 1/2	100	—	4 1/2	0.01	<0.004
A	Notes: OUTSIDE Decon Entrance Elevator Lobby 8001 - 8106															
B	164393	A2	5967	2.5	2.5	2.5	703	—	584		9	100	—	9	0.01	<0.003
B	Notes: INSIDE Room 8020 Conference Room outside Critical Barrier															
C	164493	A3	5966	2.5	2.5	2.5	704	—	554		0	100	—	0	0.01	<0.004
C	Notes: OUTSIDE Critical Barrier Hallway 8020															
D	164593	A4	5113	2.5	2.5	2.5	708	—	527		1 1/2	100	—	1 1/2	0.01	<0.004
D	Notes: OUTSIDE Critical Barrier Hallway 8011															

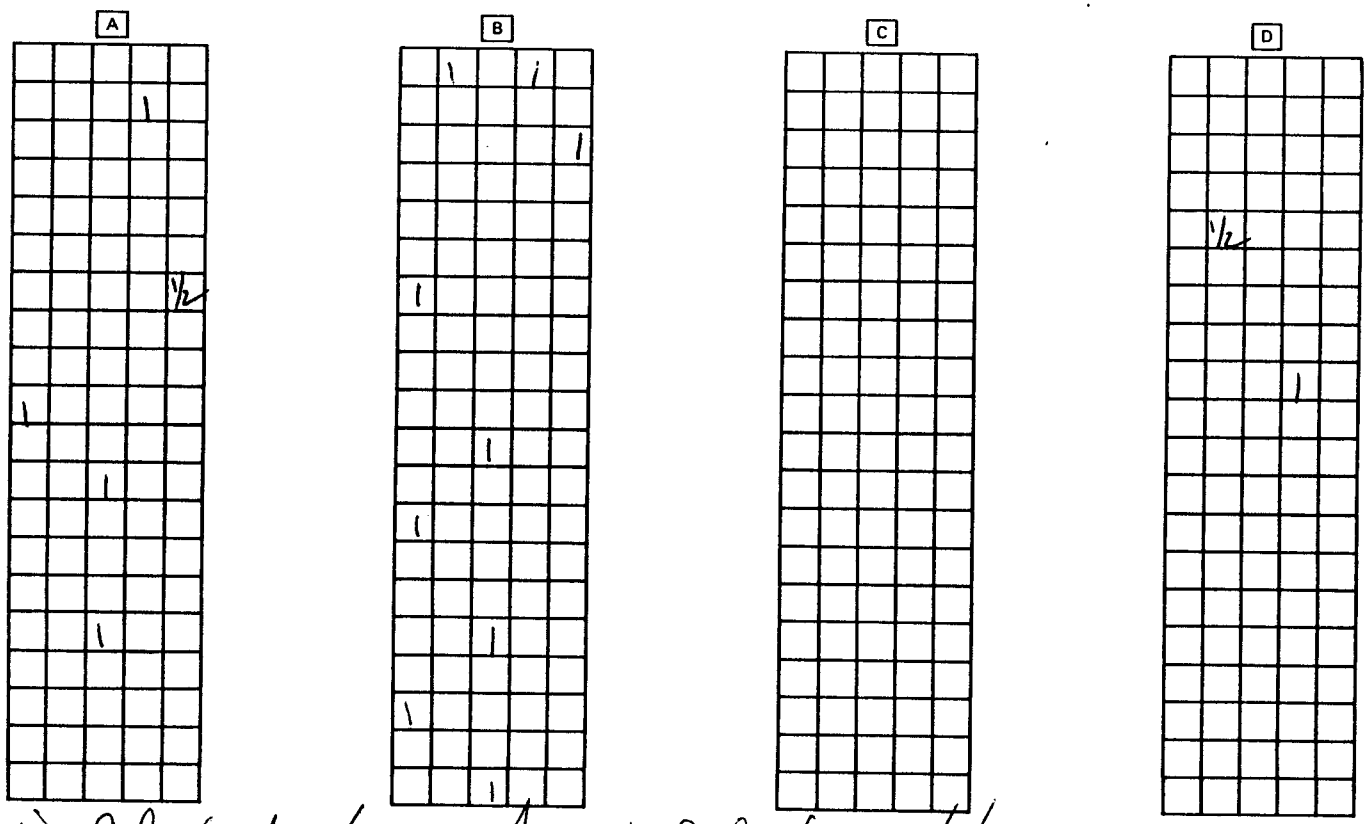
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Joseph D Eichenlaub 5/1
FIELD TECH. DATE

Joseph D Eichenlaub 5/1/93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 641002 9

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	164693	A5	~~5022~~ 5374	2.5	2.5	2.5	8:30	—	492		0	100	—	0	0.01 <0.004
A	Notes: Stairwell #3 9th Floor negative pressure exhaust (outside Containment Area)														
B	164793	A6	F63	2.5	2.5	2.5	7:35	—	320		17	100	—	17	0.010
B	Notes: Inside Containment Area 8018, 8016, 8101, 8103														
C	164893	A7		10.0	10.0	10.0	2:57	4:24	87	870	5½	100	—	5½	0.01 <0.0006
C	Notes: Outside Room 8112														
D															
D	Notes:														

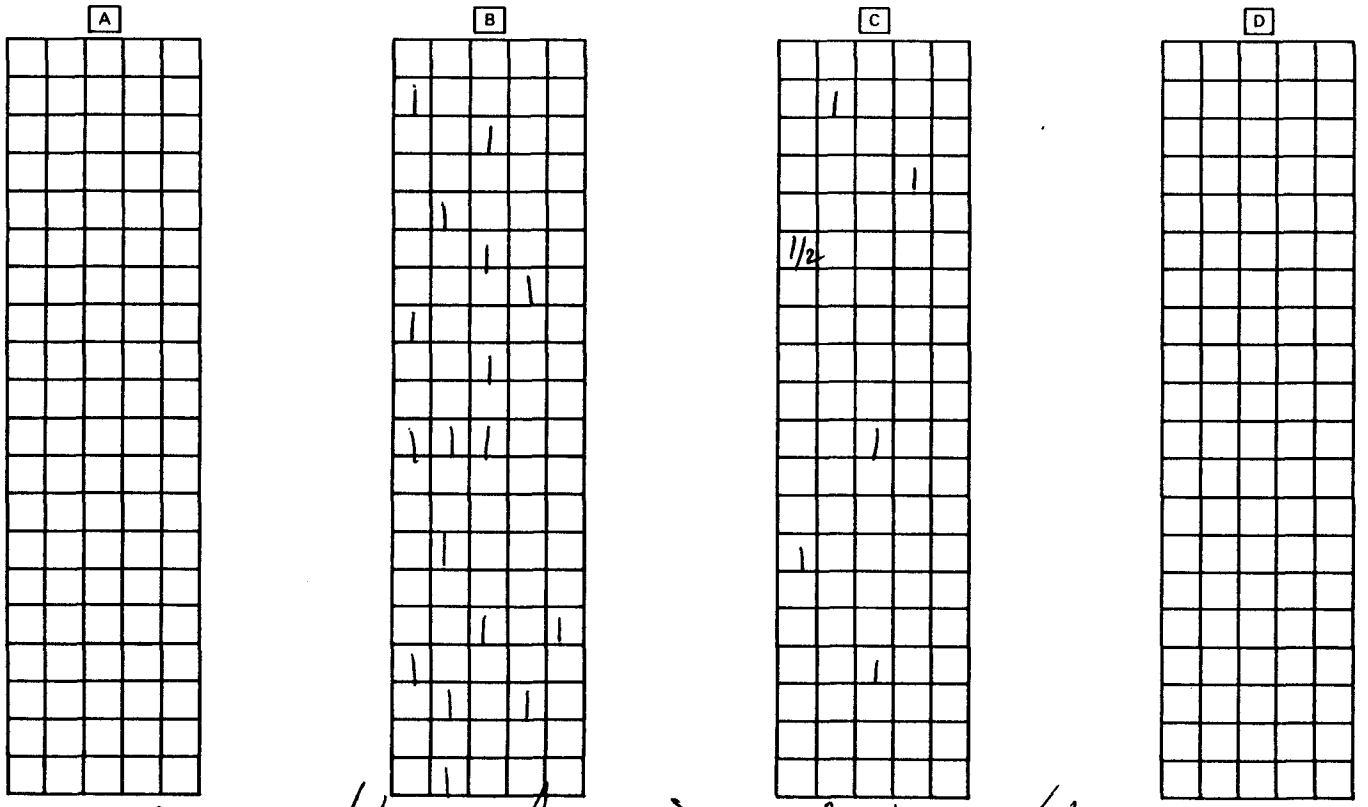
Field Area: (Check One) ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre + Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{\text{(Net Count/100) x Filter Area}}{\text{Field Area x Volume x 1000}}$



Joseph D Eichenlaub 5/1/93
FIELD TECH. DATE

Joseph D Eichenlaub 5/1/93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6410-029

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc	
A	164993	A8	5965	2.5	2.5	2.5	350	—	602	1505	31.5	100	—	31.5	0.01	
A	Notes: INSIDE Containment AREA															
B	165093	A9	937	2.5	2.5	2.5	355 (1555)	0148	~~593~~ 593	1482.5	6.0	100	—	6.0	<0.01	<0.003
B	Notes: OUTSIDE Decon Enhance															
C	165193	A10	5341	2.5	2.5	2.5	4:05 (1605)	—	690	1725	2.0	100	—	2.0	<0.01	<0.003
C	Notes: Stairwell #3															
D	165293	A11	5112	2.5	2.5	2.5	408 (1608)	—	690	1725	1.5	100	—	1.5	<0.01	<0.003
D	Notes: Stairwell #3															

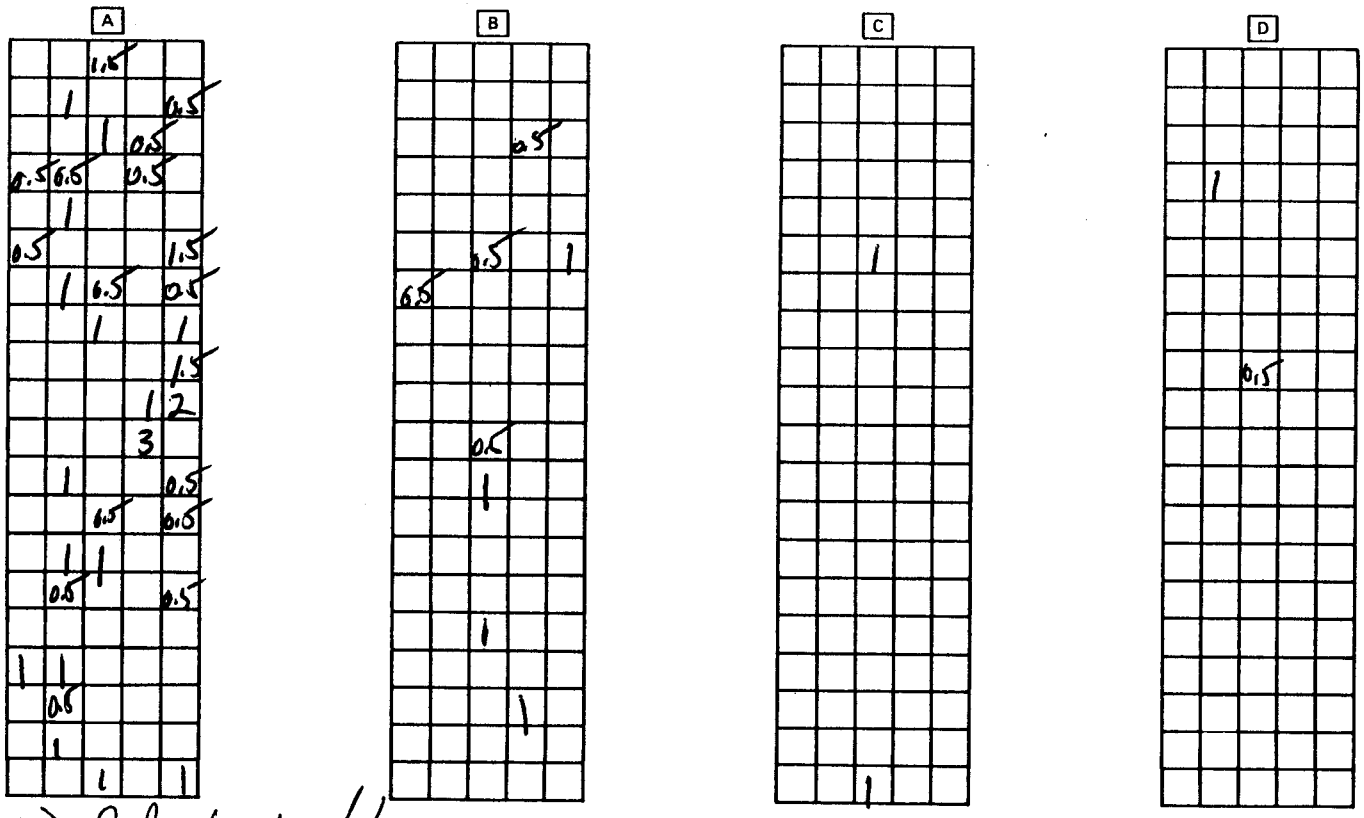
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Joseph D Eichenlaub 5/1/93
FIELD TECH. DATE

Scott Dunn 5/2/93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6410-029

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	165393	A12	5258	2.5	2.5	2.5	4/3 (1613)	—	690	1725	2.0	100	—	2.0	<0.01 <0.003
A	Notes: Stairwell #4 Critical Barrier														
B															
B	Notes:														
C															
C	Notes:														
D															
D	Notes:														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A: 1, 1

B

C

D

Joseph D Eichenlaub 5/1/93
FIELD TECH. DATE

Scott Dawn 5/2/93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # K 4 1 0 0 2 9

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc	
A	165493	A13	7937	10.0	10.0	10.0	0248	0448	120	1200	4.0	100	—	4	<0.01	<0.004
A	Notes: FINAL: Inside Containment Area															
B	165593	A14	7951	10.0	10.0	10.0	0249	0449	120	1200	3.0	100	—	3	<0.01	<0.004
B	Notes: FINAL: Inside Containment Area															
C	165693	A15	92249	10.0	10.0	10.0	0252	0452	120	1200	4.5	100	—	4.5	<0.01	<0.004
C	Notes: FINAL: Inside Containment area															
D	165793	A16	7950	10.0	10.0	10.0	0255	0455	120	1200	3.0	100	—	3.0	<0.01	<0.004
D	Notes: FINAL: Inside Containment Area															

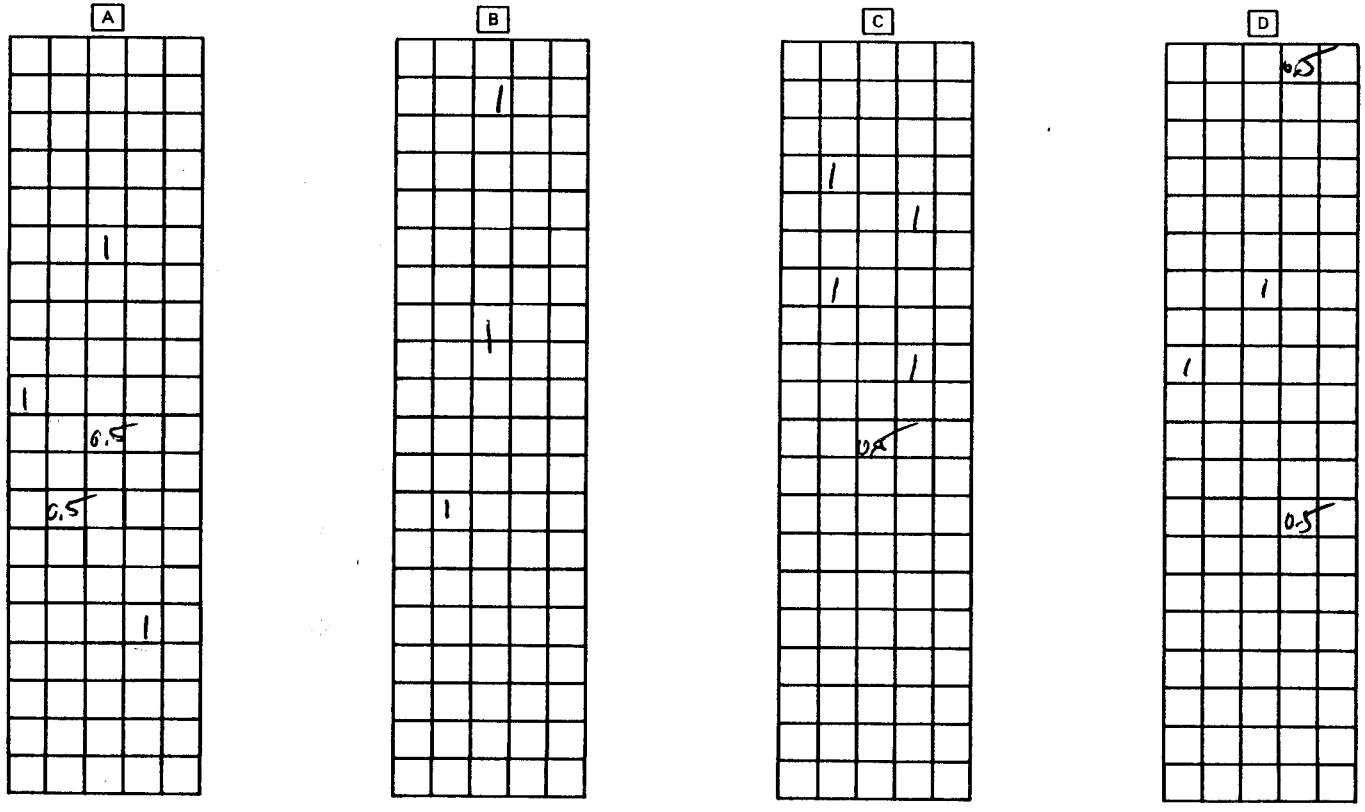
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



SCOTT DUNN — FIELD TECH. — 5/2/93 DATE

SCOTT DUNN — ANALYST — 5/2/93 DATE

Tracor Technology Resources

Air Sample Sheet

Project # 6 4 1 0 0 2 9

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	165893	A17	7435	10.0	16.0	10.0	0256	0456	120	1200	7.0	100	—	7.0	<0.01 <0.004
A	Notes: FINAL: Inside Containment Area														
B															
B	Notes:														
C															
C	Notes:														
D															
D	Notes:														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

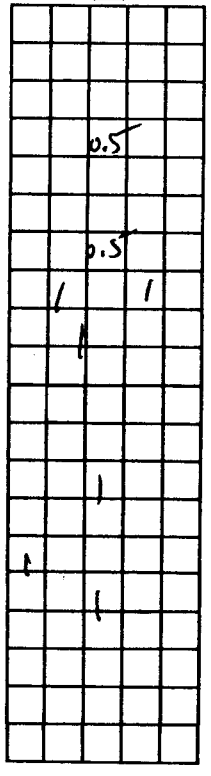
Calculations: Mean Flow = $\frac{\text{Pre + Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

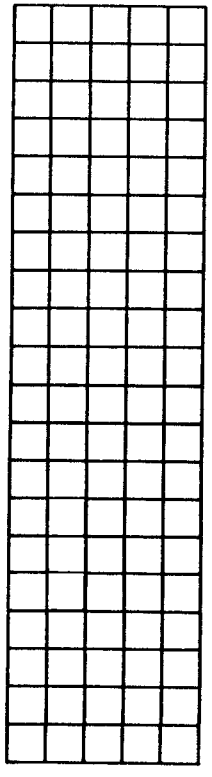
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{\text{(Net Count/100) x Filter Area}}{\text{Field Area x Volume x 1000}}$

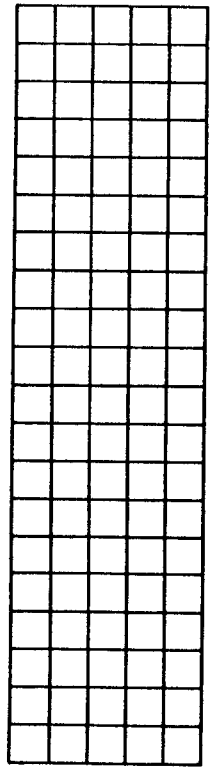
A



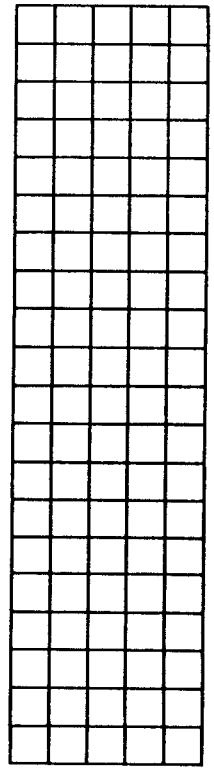
B



C



D



SCOTT DUNN 5/2/93
FIELD TECH. DATE

SCOTT DUNN 5/2/93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6,4,1,0,0,2,9,0,1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Mean (Liters/Min)	Time (Military) On	Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	178793	01	23197	2.5	2.5	2.5	0525	1415	520	1300	8	100	1	7	<.004
A	Notes: ON TOP OF DECON														
B	178893	02	23119	2.5	2.5	2.5	0525	1415	520	1300	5	100	1	4	<.004
B	Notes: ON TAPE SUPPORT EAST OF CENTRAL														
C	178993	03	23192	2.5	2.5	2.5	0525	1415	520	1300	10	100	1	9	<.004
C	Notes: ON SIGN IN TABLE WEST OF EXIT TO DECON														
D	179093	04	23193	2.5	2.5	2.5	0525	1415	520	1300	6	100	1	5	<.004
D	Notes: IN South Stairwell - NAFD Exhaust														

Field Area: (Check One)
- ☒ .00785
- ☐ .00754
- ☐ .00724
- ☐ .00801
- ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- ☒ 25 mm (385 sq mm)
- ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

B

C

D

[illegible] 5/8/93
FIELD TECH. DATE

J Golonsick 5-8-93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6,4,1,0,0,2,9,0,1,1,

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	179193	05	23120	2.5	2.5	2.5	0525	1415	520	1,300	2	100	1	1	<.004
A	Notes: ON Desk - South of Critical - Adjacent Office Space														
B	179293	06	739	3.0	3.0	3.0	1040	1420	200	600	4.5	100	1	3.5	<.008
B	Notes: Inside Containment Beside Dirty Room														
C	179393	07	—	—	—	—	—	—	—	→	1/2	100	1/2	1/2	—
C	Notes: Blank														
D	179493	08	—	—	—	—	—	—	—	→	1 1/2	100	1 1/2	1 1/2	—
D	Notes: Blank														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

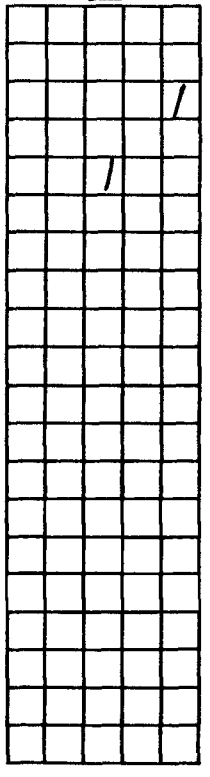
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

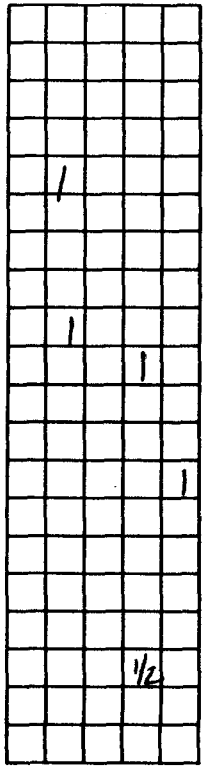
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

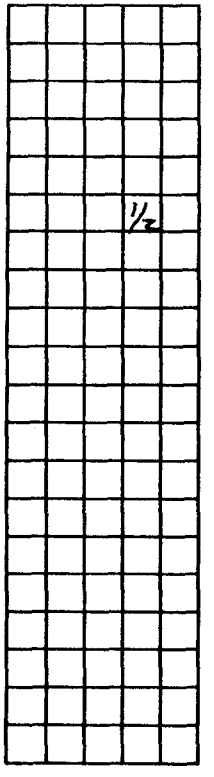
A



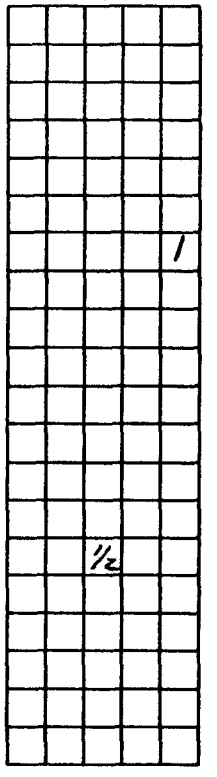
B



C



D



[signature] 5/8/93
FIELD TECH. DATE

ANALYST DATE

Tracer Technology Resources — **Air Sample Sheet**

Project # 16,4/10,0,219,0,1,1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	179593	9	91-2	2.5	2.5	2.5	1430	2105	395	987.5	12	100	1	11	.005
A	Notes: on sign-in table west of Exit to Decon														
B	179693	10	92-2	2.5	2.5	2.5	1430	2105	395	987.5	14	100	1	13	.006
B	Notes: on top of Decon														
C	179793	11	93-1	2.5	2.5	2.5	1430	2105	395	987.5	15	100	1	14	.007
C	Notes: on tape support East of Critical.														
D	179893	12	94-5	2.5	2.5	2.5	1430	2115	405	1012.5	7	100	1	6	<.005
D	Notes: On Desk S of Critical - Adjacent office space														

Field Area: (Check One) ☐ .00785 ☐ .00801 ☐ .00754 ☐ .00817 ☐ .00724

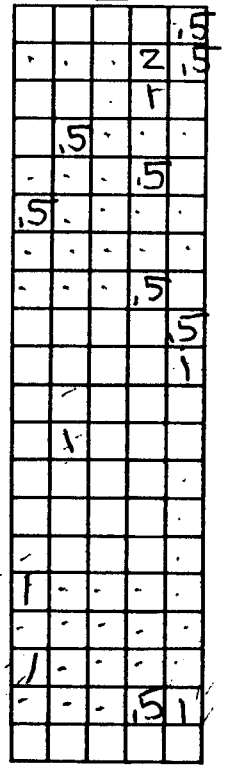
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

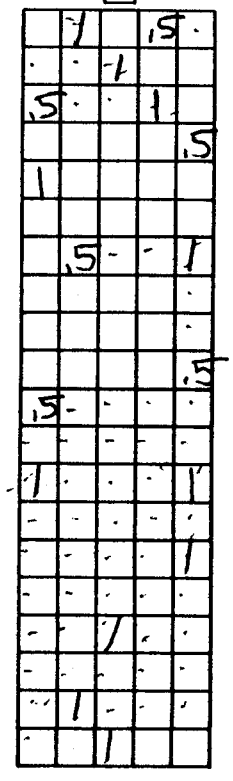
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

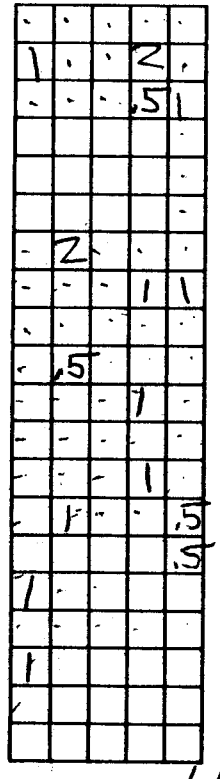
A — 12/100



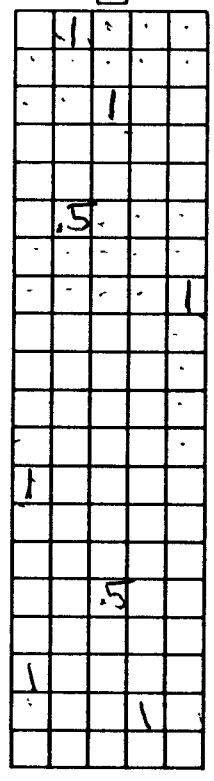
B — 14/100



C — 15/100



D — 7/100



Golombieski — FIELD TECH. — 5/8/93 DATE

ANALYST — 5/8/93 DATE

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6,4,1,9,0,2,9,0,1,1

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	180193	15	82-1	10.0	10.0	10.0	0030	0230	120	1200	3.5	100	1	2.5	<.004
A	Notes:		Final Air									Final Air			
B	180293	16	4	10.0	10.0	10.0	0030	0230	120	1200	5	100	1	4	<.004
B	Notes:		Final Air									Final Air			
C	180393	17	6	10.0	10.0	10.0	0035	0235	120	1200	4	100	1	3	<.004
C	Notes:		Final Air									Final Air			
D	180493	18	3	10.0	10.0	10.0	0035	0235	120	1200	4	100	1	3	<.004
D	Notes:		Final Air									Final Air			

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

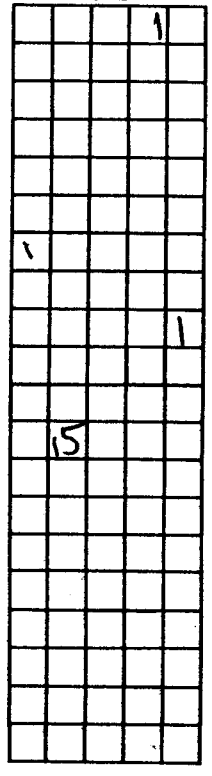
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

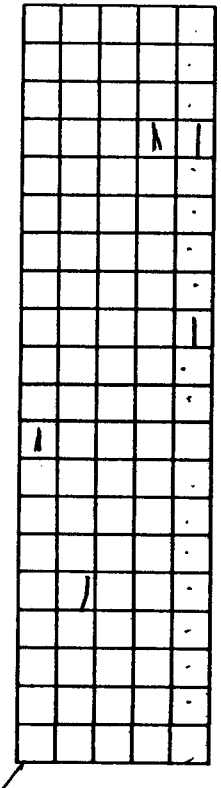
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

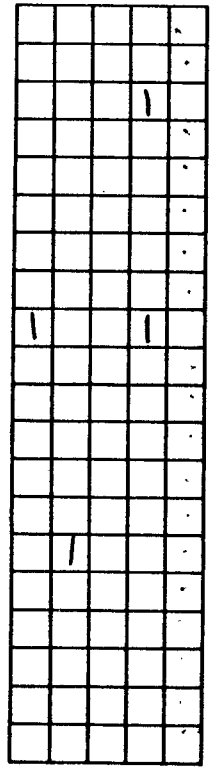
A: 3.5/100



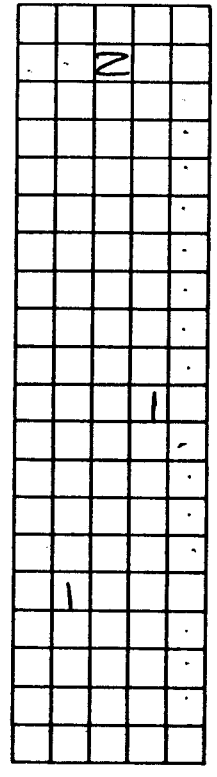
B: 5/100



C: 4/100



D: 4/100



FIELD TECH. — DATE 5/9/93

ANALYST — DATE 5/9/93

Tracer Technology Resources — **Air Sample Sheet**

Project # 6,4,1,0,0,2,9,0,1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	180593	19									1	100			
A	Notes:			Blank											
B	180693	20									1	100			
B	Notes:			Blank											
C															
C	Notes:														
D															
D	Notes:														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

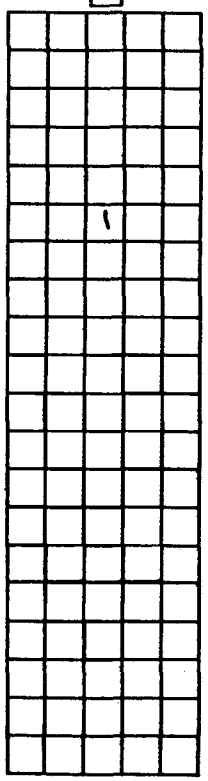
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

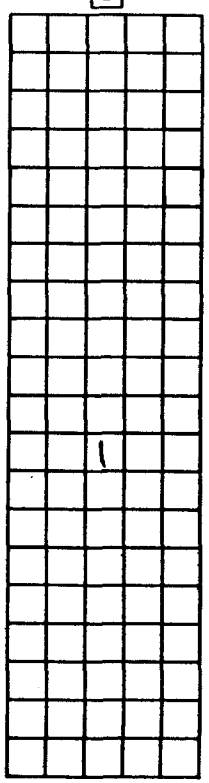
A

1/100

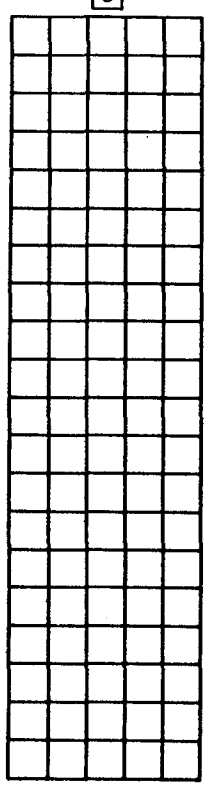


B

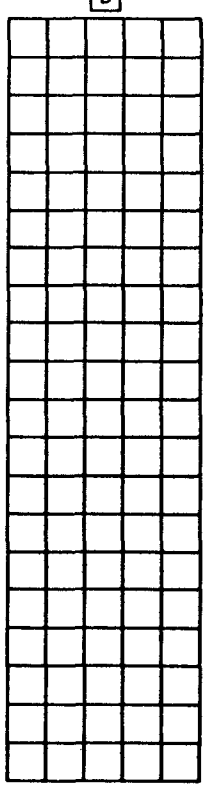
1/100



C



D



FIELD TECH. — DATE 5/8/93

ANALYST — DATE 5/8/93

Tracor Technology Resources | **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6410-029-01

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	187393	01	403	2.5	2.5	2.5	0552	1216	384	960	10	100	0	10	.005
A	Notes: 8th floor elev lobby - E wall														
B	187493	02	17	2.5	2.5	2.5	0549	1213	384	960	7.5	100	0	7.5	<.005
B	Notes: Area - in decon														
C	187593	03	34	2.5	2.5	2.5	0558	1222	384	960	3	100	0	3	<.005
C	Notes: Area - AFD exhaust - rear stairwell #1 (Southwest)														
D	187693	04	1	2.5	2.5	2.5	0609	1233	384	960	3.5	100	0	3.5	<.005
D	Notes: Area - In W corridor at 8209														

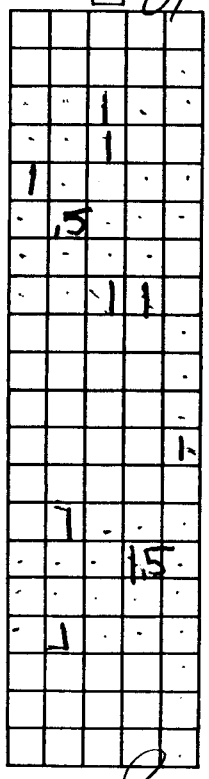
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

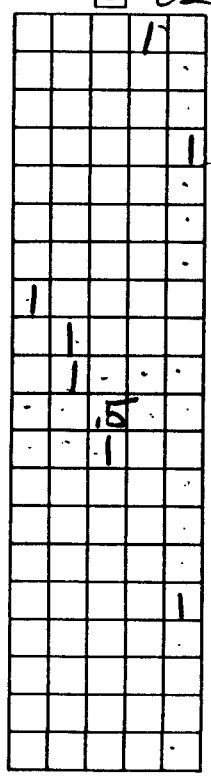
Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

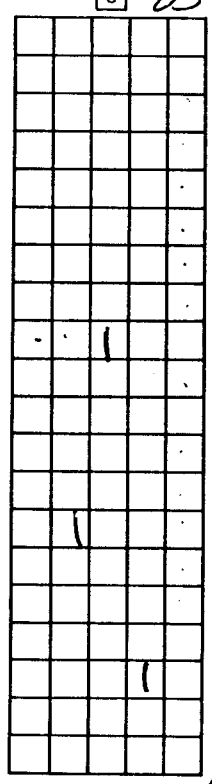
A 01 — 10/100



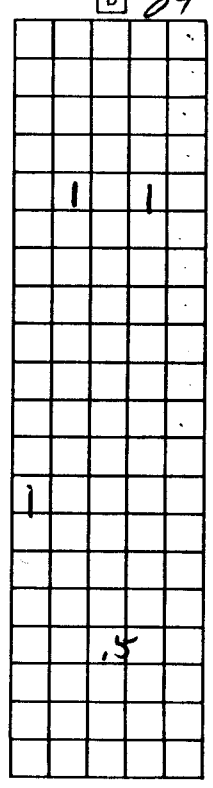
B 02 — 7.5/100



C 03 — 3/100



D 04 — 3.5/100



R Wells 5/21/93
FIELD TECH. DATE

[illegible] 5/22/93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6410-029-01

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	187793	05	61	2.5	2.5	2.5	0636	812	96	240	10.5	100	0	10.5	.021
A	Notes: Inside on cabinet in central office at W wall														
B	187893	06	16	2.5	2.5	2.5	0820	1448	384	960	3.5	100	0	3.5	<.005
B	Notes: Area Sample Outside Room 8013 East of Decon														
C	187993	07	61	2.5	2.5	2.5	1145	1405	140	350	10.5	100	0	10.5	.015
C	Notes: Inside Containment														
D	188093	08	17	2.5	2.5	2.5	1415	2045	390	975	10.5	100	0	10.5	0.005
D	Notes: Area Inside Clean Room														

Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

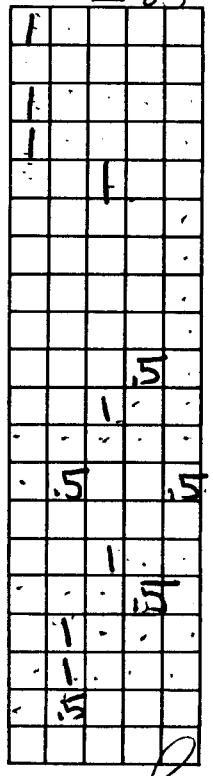
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

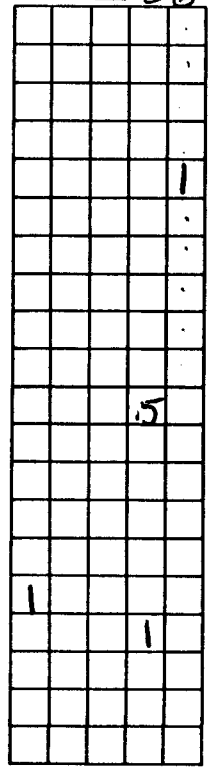
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

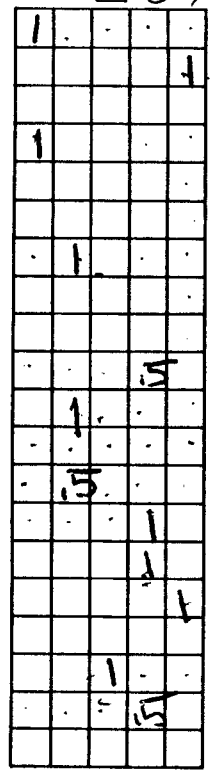
A 05 — 10.5/100



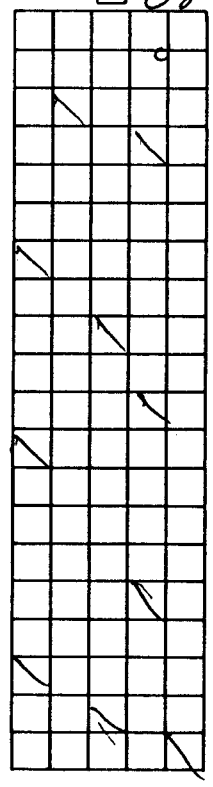
B 06 — 3.5/100



C 07 — 10.5/100



D 08



B Hall 5/21/93
FIELD TECH. DATE

[illegible] 5/22/93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6410-029-01

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	188193	09	403	2.5	2.5	2.5	1415	2039	384	960	7.5	100	0	7.5	<0.005
A	Notes: Area 8th floor elevator lobby - E Wall														
B	188293	10	34	2.5	2.5	2.5	1422	2046	384	960	8	100	0	8	<0.005
B	Notes: Area - AFD Exvust - Rear Stairwell #1 (Southwest)														
C	188393	11	04	2.5	2.5	2.5	1425	2049	384	960	6	100	0	6	<0.005
C	Notes: Area - In North Corridor at 8209 (Critical														
D	188493	12									0	100			
D	Notes: ~~Area~~ Blank														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

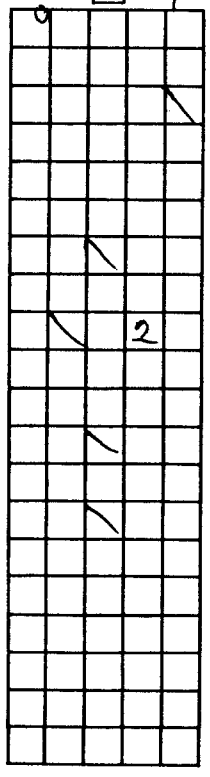
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

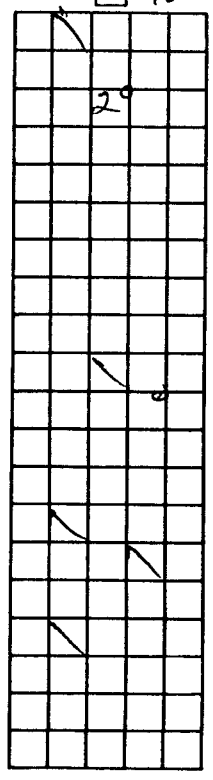
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

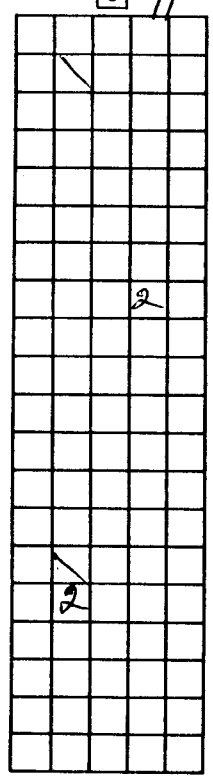
A 09



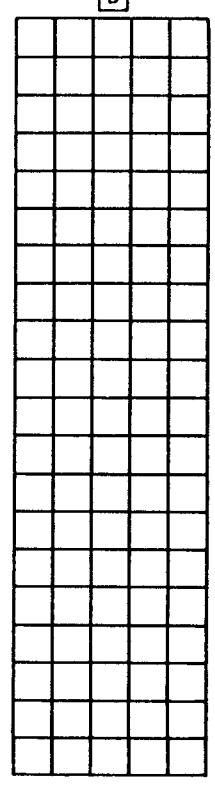
B 10



C 11



D



FIELD TECH. 5/22/93 DATE

B Stells 5/23/93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6410-029-01

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	188593	13									0	100			
A	Notes: Blank														
B	188693	14	Below	10.0	10.0	10.0	1630	1820	110	1100	9	100	0	9	<.004
B	Notes: Area / High Volume / North of Decon.														
C															
C	Notes:														
D															
D	Notes:														

Field Area: (Check One) ☒ .00786 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

B

C

D

9/100

FIELD TECH. 5/22/93 DATE

ANALYST 5/22/93 DATE

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6410-029-01

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	188793	15	1119	10	10	10	2343	0154	131	1310	1	100	0	1	<0.004
A	Notes: Finale - 8th floor SW area														
B	188893	16	637	10	10	10	2345	0145	120	1200	4.5	100	0	4.5	<0.004
B	Notes: Finale - 8th floor SW area														
C	188993	17	1212	10	10	10	2347	0147	120	1200	7	100	0	4.5	<0.004
C	Notes: Finale - 8th floor SW area														
D	189093	18	529	10	10	10	2349	0149	120	1200	4	100	0	4.5	<0.004
D	Notes: Finale - 8th floor SW area														

Field Area: (Check One)
- ☒ .00785
- ☐ .00754
- ☐ .00724
- ☐ .00801
- ☐ .00817

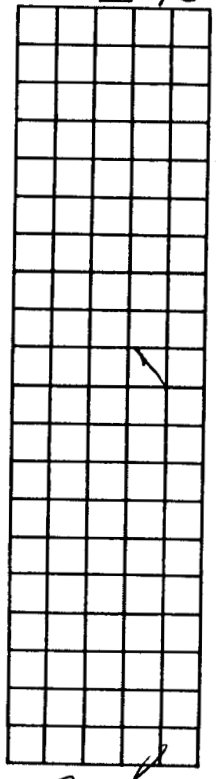
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- ☒ 25 mm (385 sq mm)
- ☐ 37 mm (855 sq mm)

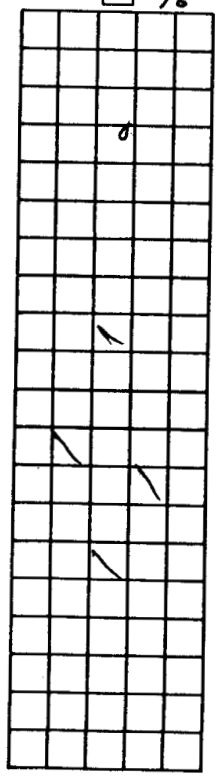
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

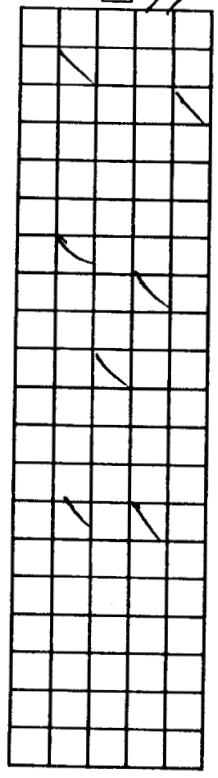
A 15



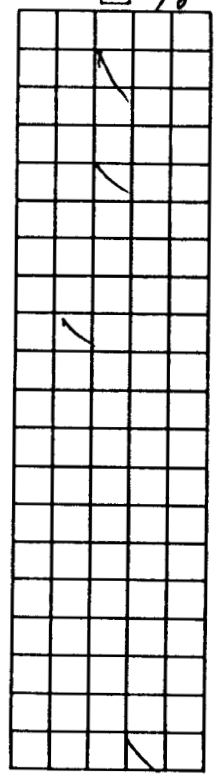
B 16



C 17



D 18



B Stella 5/22/93
FIELD TECH. DATE

B Stella 5/23/93
ANALYST DATE

Received/Mailed
NOV 6 1993 T.S.
DC010522

94-100

Tracor Technology Resources, Inc.
1601 Research Boulevard
Rockville, MD 20850-3173
301 251-4911

CANOFILE: 931025

TRACOR

Project No.: 6410-029
Serial No.: JG-93-5345
ACT No.: P05554331

October 25, 1993

Ms. Normajean Eleazer
GSA, NCR, WPX, Room 2036
7th and D Streets, SW
Washington, DC 20407

Subject: PROGRESS REPORT VII - NEW EXECUTIVE OFFICE BUILDING

Dear Ms. Eleazer:

This is a progress report on the asbestos abatement project that occurred in the New Executive Office Building on the 6th and 9th floors on August 20-22, September 10-12 and September 24-26, 1993.

Personnel from Tracor Technology Resources, Inc. (TTR) monitored Retro Environmental, a licensed asbestos abatement contractor, removing approximately three hundred (300) square inches of asbestos containing deck insulation, utilizing full containment procedures.

The Industrial Hygiene Consultant's responsibilities include conducting inspections of the worksite, assessing work practices, and collecting air samples. A total of fifty-nine (59) air samples were collected. This project consisted of three (3) start up, ten (10) daily, three (3) final and two (2) CIH inspection checklist reports.

The TTR Industrial Hygienist conducted daily air monitoring to determine work area fiber concentrations, and fiber levels outside the work area. In addition, the Industrial Hygienist conducted final inspections and clearance air testing. All final clearance air samples were below the required EPA level of 0.01 fibers per cubic centimeter (0.01 f/cc).

Air sample collection measurement and analysis followed the NIOSH 7400 Method A Rules. Air sampling pumps were calibrated both before and after collecting each sample set. Area samples were taken at ≥2.5 liters per minute, and all clearance samples were taken at 10.0 liters per minute.

Please find enclosed air sampling data, daily and final checklists, and all daily log notes.

If you should have any questions or need additional information, please call. We can be reached at (301) 251-4921.

Sincerely,

TRACOR TECHNOLOGY RESOURCES, INC.

Prepared by: _____
John Golombieski, III
Industrial Hygienist

Program Review: _____
Myrl Glunt

Technical Review: _____
Unhee Kim, CIH

JG:srp

Enclosures

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

08/24/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
6410029	277793	1	08/21/93	INS	0.014
6410029	277893	2	08/21/93	OUT	< 0.005
6410029	277993	3	08/21/93	OUT	< 0.005
6410029	278093	4	08/21/93	OUT	< 0.005
6410029	278193	5	08/21/93	OUT	< 0.005
6410029	278293	6	08/21/93	OUT	< 0.005
6410029	278393	7	08/21/93	INS	< 0.010
6410029	278493	8	08/21/93	OUT	< 0.005
6410029	278593	9	08/21/93	OUT	< 0.005
6410029	278693	10	08/21/93	OUT	< 0.005
6410029	278793	11	08/21/93	OUT	BLANK= 0.00
6410029	278893	12	08/21/93	OUT	BLANK= 0.00
6410029	278993	13	08/22/93	FIN	< 0.004
6410029	279093	14	08/22/93	FIN	< 0.004
6410029	279193	15	08/22/93	FIN	< 0.004
6410029	279293	16	08/22/93	FIN	< 0.004
6410029	279393	17	08/22/93	FIN	< 0.004

KEY:
- BKG BACKGROUND
- FIN FINAL
- PER PERSONAL
- GVB GLOVE BAG
- INS INSIDE CONTAINMENT
- OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL D. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

09/14/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
6410029	286793	1	09/10/93	INS	0.007
6410029	286893	2	09/10/93	OUT	0.007
6410029	286993	3	09/10/93	OUT	< 0.004
6410029	287093	4	09/10/93	OUT	< 0.004
6410029	287193	5	09/10/93	OUT	< 0.004
6410029	287293	6	09/10/93	OUT	< 0.005
6410029	287393	7	09/10/93	BLA	BLANK= 0.00
6410029	287493	8	09/10/93	BLA	BLANK= 0.00
6410029	287593	9	09/11/93	OUT	0.021
6410029	287693	10	09/11/93	OUT	0.012
6410029	287793	11	09/11/93	OUT	< 0.005
6410029	287893	12	09/11/93	OUT	< 0.005
6410029	287993	13	09/11/93	OUT	< 0.005
6410029	288093	14	09/11/93	OUT	< 0.003
6410029	288193	15	09/12/93	FIN	< 0.004
6410029	288293	16	09/12/93	FIN	< 0.004
6410029	288393	17	09/12/93	FIN	< 0.004
6410029	288493	18	09/12/93	FIN	< 0.004
6410029	288593	19	09/12/93	FIN	< 0.004

KEY: BKG BACKGROUND
FIN FINAL
PER PERSONAL
GVB GLOVE BAG
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL L. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

09/28/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
641002901	296293	1	09/25/93	ins	0.006
641002901	296393	2	09/25/93	out	< 0.005
641002901	296493	3	09/25/93	out	< 0.005
641002901	296593	4	09/25/93	out	< 0.005
641002901	296693	5	09/25/93	out	< 0.005
641002901	296793	6	09/25/93	out	< 0.005
641002901	296893	7	09/25/93	out	BLANK= 0.50
641002901	296993	8	09/25/93	out	BLANK= 0.50
641002901	297093	9	09/25/93	out	0.005
641002901	297193	10	09/25/93	out	< 0.006
641002901	297293	11	09/25/93	out	< 0.003
641002901	297393	12	09/25/93	out	< 0.003
641002901	297493	13	09/25/93	out	0.007
641002901	297593	14	09/25/93	ins	< 0.006
641002901	297693	15	09/25/93	ins	0.011
641002901	297793	16	09/25/93	out	0.004
641002901	297893	17	09/26/93	out	< 0.004
641002901	297993	18	09/26/93	out	< 0.004
641002901	298093	19	09/26/93	fin	VOIDED
641002901	298193	20	09/26/93	fin	< 0.004
641002901	298293	21	09/26/93	fin	< 0.004
641002901	298393	22	09/26/93	fin	< 0.004
641002901	298493	23	09/26/93	fin	< 0.004

KEY: BKG BACKGROUND
FIN FINAL
PER PERSONAL
GVB GLOVE BAG
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY

MICHAEL D. EDWARDS
LABORATORY MANAGER

Tracor Technology Resources — Air Sample Sheet

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6410-029

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	277793	61	5966	2.5	2.5	2.5	0436	1147	431	1077.5	30	100	0	30	0.014
A	Notes: Inside WA														
B															
B	Notes:														
C															
C	Notes:														
D															
D	Notes:														

Field Area: (Check One) ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

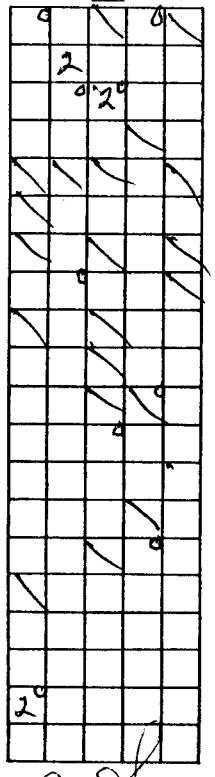
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A



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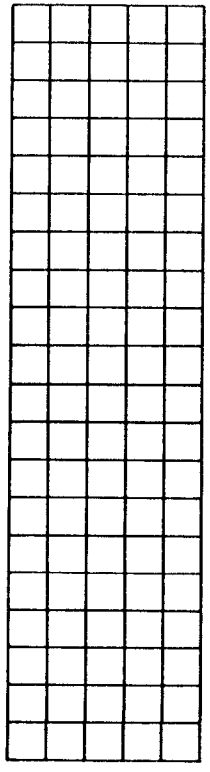

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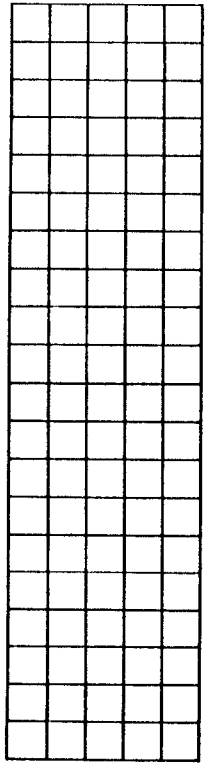

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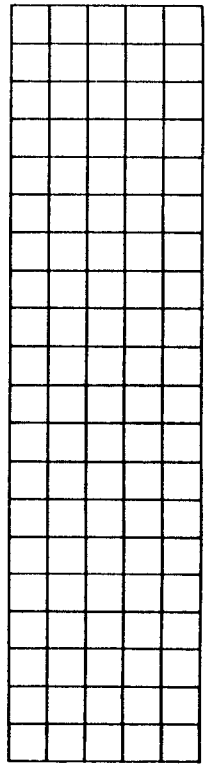


This is sample #1 from the other sheet for 8-20-93
Sample #1 from Retro was mistakenly analyzed
EW

B Stalls 8-21-93
FIELD TECH. DATE

B Stalls 8-21-93
ANALYST DATE

Tracor Technology Resources — Air Sample Sheet

Project # 6 4 1 0 0 2 9

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A		01	5966	2.5	2.5	2.5	0436	~~1100~~ 0825	209	522.5	9	100	0	9	0.004
A	Notes: INSIDE WORK AREA													
B	277893	02	5113	2.5	2.5	2.5	0452	1116	384	960	3	100	0	3	<0.005
B	Notes: AT DECON. UNIT													
C	277993	03	5112	2.5	2.5	2.5	0456	1120	384	960	2	100	0	2	<0.005
C	Notes: NORTH CRITICAL BARRIER													
D	278093	04	5258	2.5	2.5	2.5	0457	1121	384	960	0	100	0	0	<0.005
D	Notes: Room 6233 : Chiefs Office													

See other sheet

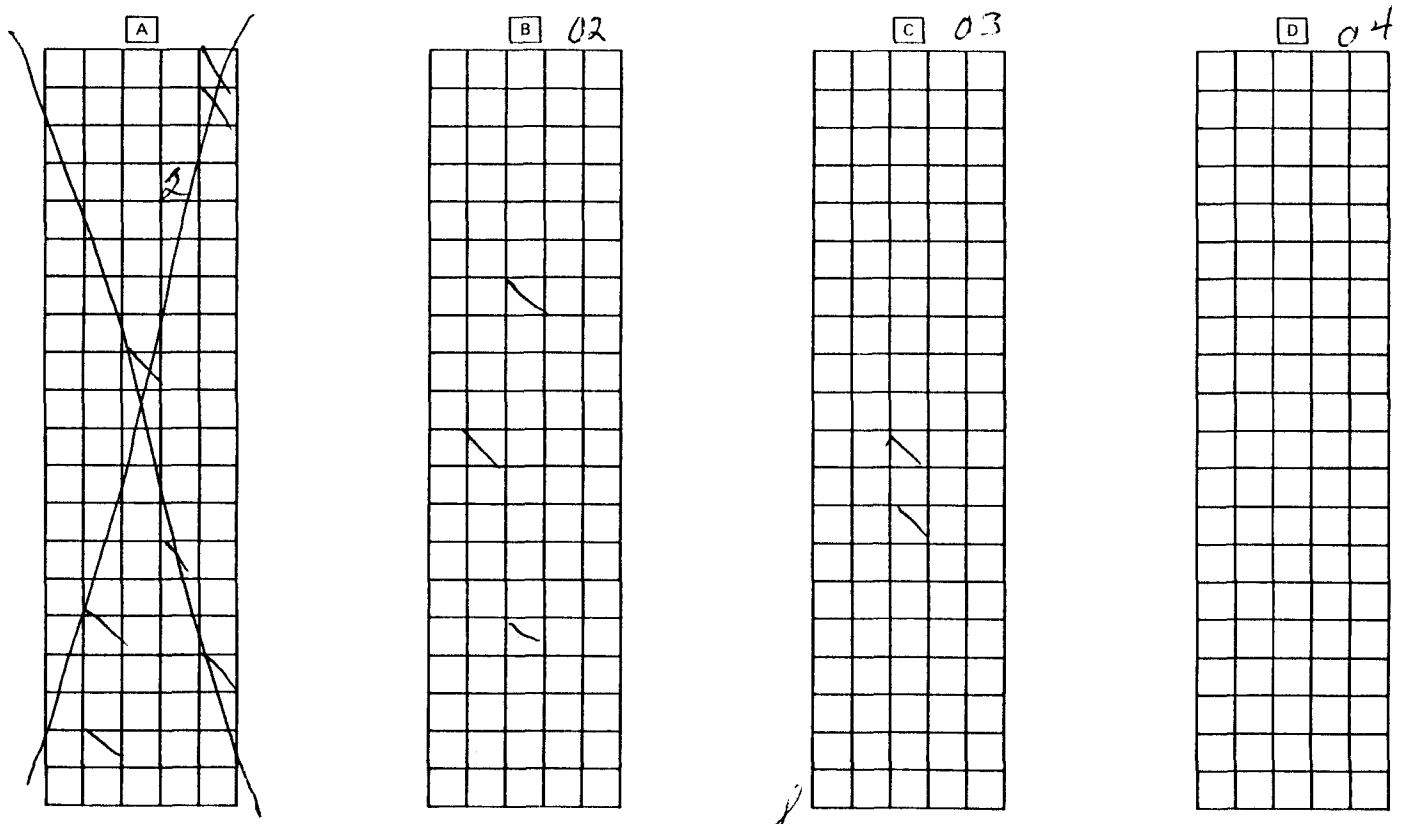
Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



SCOTT DUNN 8/20/93
FIELD TECH. DATE

B Sells 8-21-93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6.4.7.1.0.2.9.

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	278193	05	5395	2.5	2.5	2.5	0501	1125	384 / 360 / 360	900	0	100	0	0	<0.025
A	Notes: AT SOUTH CRITICAL BARRIER.														
B															
B	Notes:														
C															
C	Notes:														
D															
D	Notes:														

Field Area: (Check One)
- ☒ .00785
- ☐ .00754
- ☐ .00724
- ☐ .00801
- ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- ☒ 25 mm (385 sq mm)
- ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A 05

B

C

D

Scott Dunn — FIELD TECH. — 5/20/93 DATE

B. Stell — ANALYST — 8-21-93 DATE

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6410-029

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	278293	06	31	2.5	2.5	2.5	1145	1809	984	960	2	100	0	2	<0.005
A	Notes: Outside Area - Rm 6233														
B	278393	07	2	2.5	2.5	2.5	1300 ~~1147~~	1620 BW	200	500	4.5	100	0	4.5	~~0.009~~ 0.010
B	Notes: Inside WA														
C	278493	08	61	2.5	2.5	2.5	1147	1811	384	960	8	100	0	8	<0.005
C	Notes: Outside Area - Northside ACA														
D	278593	09	34	2.5	2.5	2.5	1149	1813	384	960	1.5	100	0	1.5	<0.005
D	Notes: Outside Area - Southside ACA														

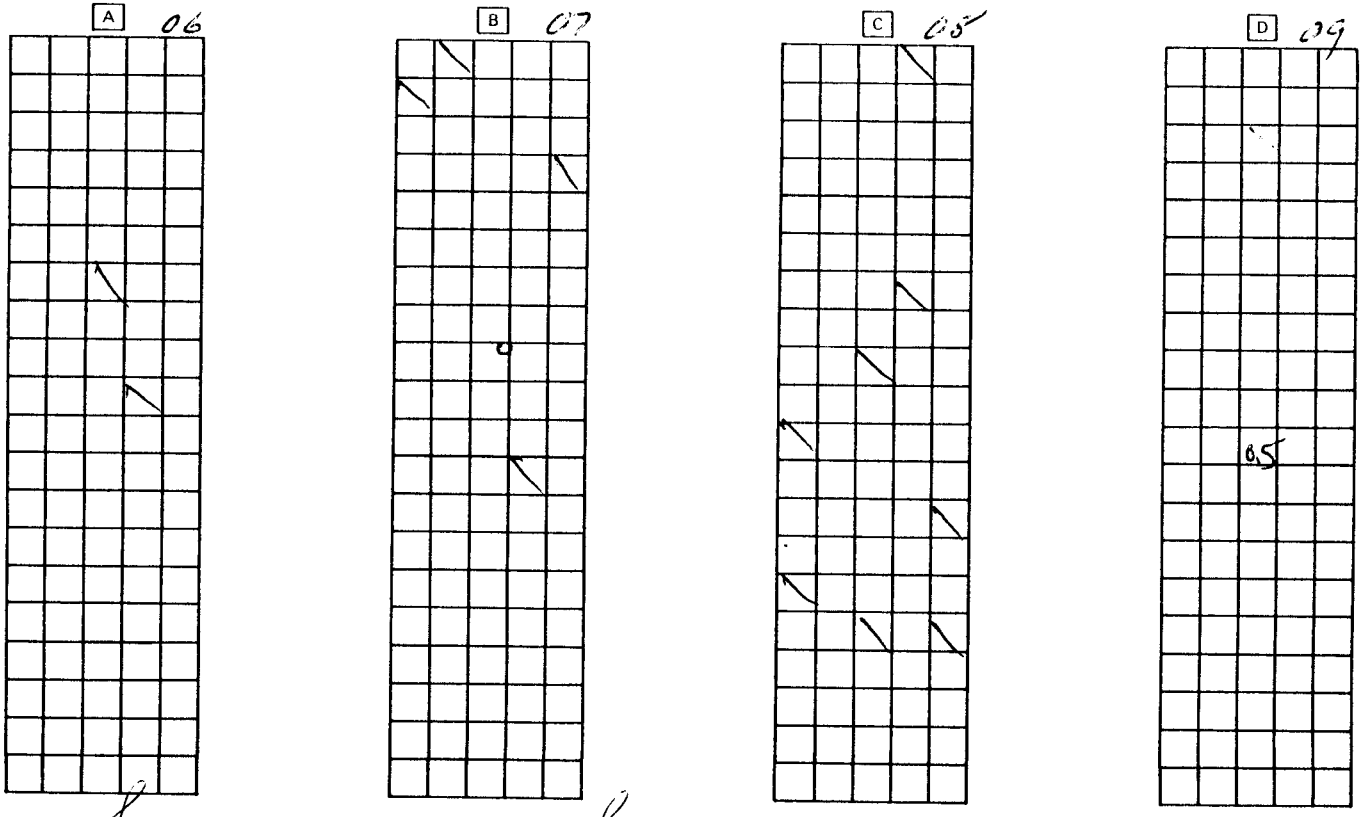
Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



B. Hall 8-21-93
FIELD TECH. DATE

B. Hall 8-21-93
ANALYST DATE

LSD 8/21/93

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6410-029

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	278693	10	12	2.5	2.5	2.5	1150	1814	384	960	3.5	100	0	3.5	<0.005
A	Notes: Outside Area - at decon														
B	278793	11													
B	Notes: Blank														
C	278893	12													
C	Notes: Blank														
D															
D	Notes:														

Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

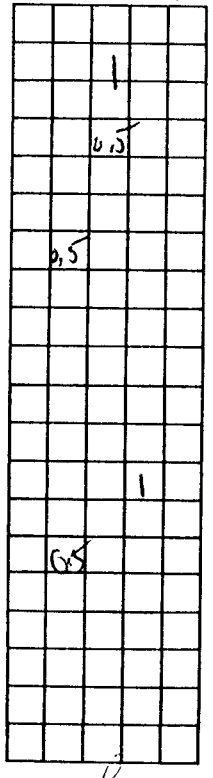
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

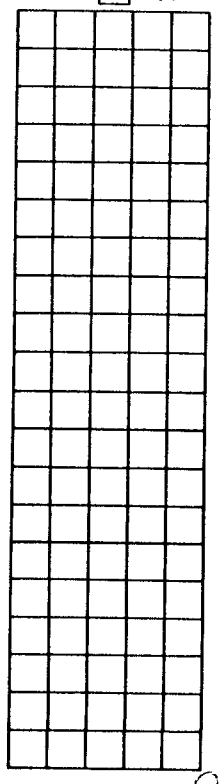
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

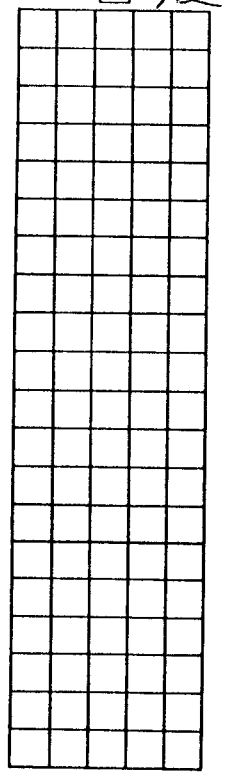
A 10



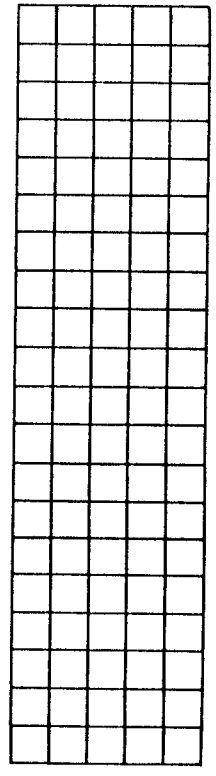
B 11



C 12



D



R. Stelle 8-21-93
FIELD TECH. DATE

R. Stelle 8-21-93
ANALYST DATE

Tracor Technology Resources

Air Sample Sheet

Project # 6,4,1,0,0,7,9,

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc	
A	278993	013	0791	10	10	10	0105	0305	120	1200	1.5	100	—	1.5	<0.01	<0.004
A	Notes: FINAL															
B	279293	014	7941	10	10	10	0105	0305	120	1200	3	100	—	3	<0.01	<0.004
B	Notes: FINAL															
C	279193	015	7953	10	10	10	0105	0305	120	1200	2.5	100	—	2.5	<0.01	<0.004
C	Notes: FINAL															
D	279293	016	0792	10	10	10	0105	0305	120	1200	3	100	—	3.0 ~~3.0~~	<0.01	<0.004
D	Notes: FINAL															

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

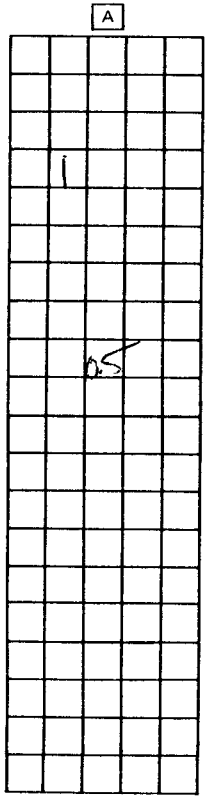
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

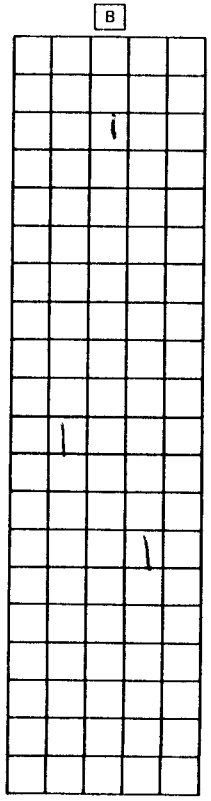
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

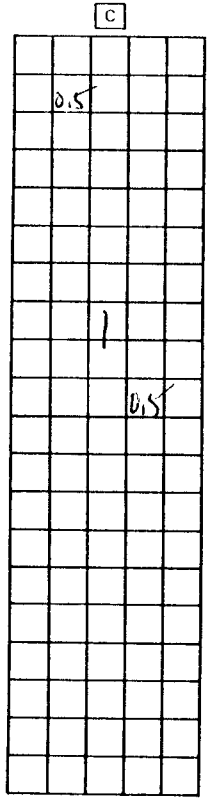
A



B



C



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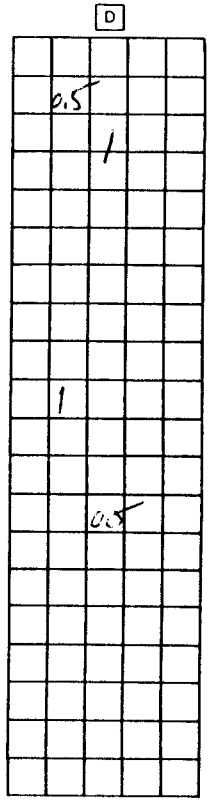


Scott Dunn 5/22/93
FIELD TECH. DATE

Scott Dunn 5/22/93
ANALYST DATE

Tracor Technology Resources

Air Sample Sheet

Project # 6410629

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Liters/Min Pre	Post	Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	279393	617	1119	10	10	10	0105	0305	120	1200	1	100	—	1	<0.01
A	Notes: FINAL														
B															
B	Notes:														
C															
C	Notes:														
D															
D	Notes:														

<0.004

Field Area: (Check One)
- [x] .00785
- [ ] .00754
- [ ] .00724
- [ ] .00801
- [ ] .00817

Filter Size
- [x] 25 mm (385 sq mm)
- [ ] 37 mm (855 sq mm)

Calculations: Mean Flow = $\frac{Pre + Post}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A 1

B

C

D

SCOTT DUNN 8/22/93
FIELD TECH. DATE

SCOTT DUNN 8/22/93
ANALYST DATE

Tracor Technology Resources — Air Sample Sheet

Project # 6 4 1 0 0 2 9

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	286793	01	5966	2.5	2.5	2.5	0340	1125	465	1163	16.5	100	0	16.5	.007
A	Notes: INSIDE WORK AREA														
B	256893	02	5112	2.5	2.5	2.5	0350	1125	455	1138	15	100	0	15	.006
B	Notes: OUTSIDE DECON														
C	286993	03	5258	2.5	2.5	2.5	0354	1130	456	1140	4	100	0	4	<.004
C	Notes: SOUTH CRITICAL BARRIER IN OFFICE														
D	287093	04	5113	2.5	2.5	2.5	0400	1135	455	1136	2	100	0	2	<.004
D	Notes: CRITICAL AT NORTH END														

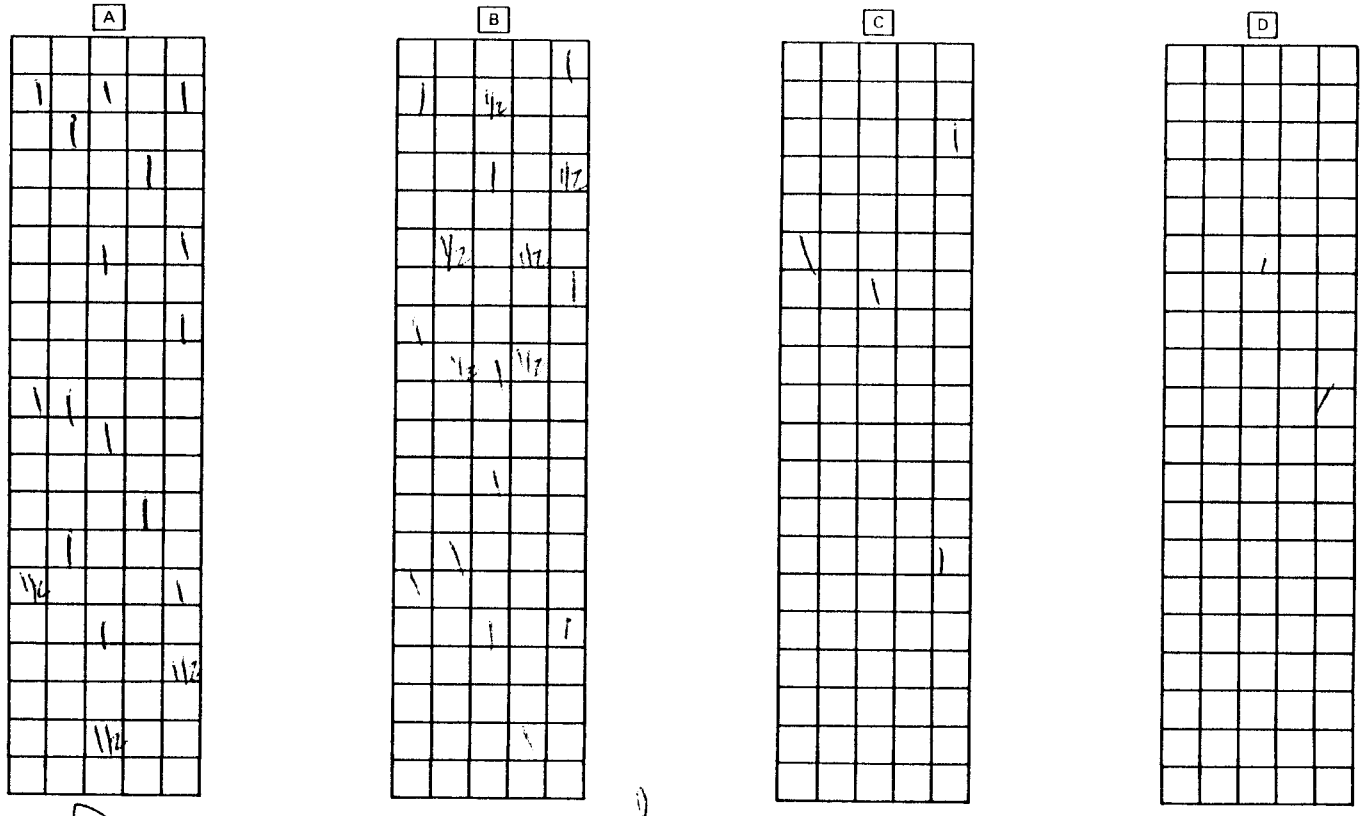
Field Area: (Check One) ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



SCOTT E. DUNN 7/12/93
FIELD TECH. DATE

ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6,4,1,0,0,2,9,

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	287193	05	5351	2.5	2.5	2.5	0404	1135	451	1128	7.5	100	0	7.5	0.004
A	Notes: NORTH CRITICAL IN OFFICE														
B	287293	06		3.0	3.0	3.0	0404	1250	3.0	990	2.5	100	0	2.5	0.005
B	Notes: Control Blank Per Case														
C	287393	07	—	—	—	—	—	—	—	→	0	100	0	0	—
C	Notes: Blank														
D	287493	08	—	—	—	—	—	—	—	→	0	100	0	0	—
D	Notes: Blank														

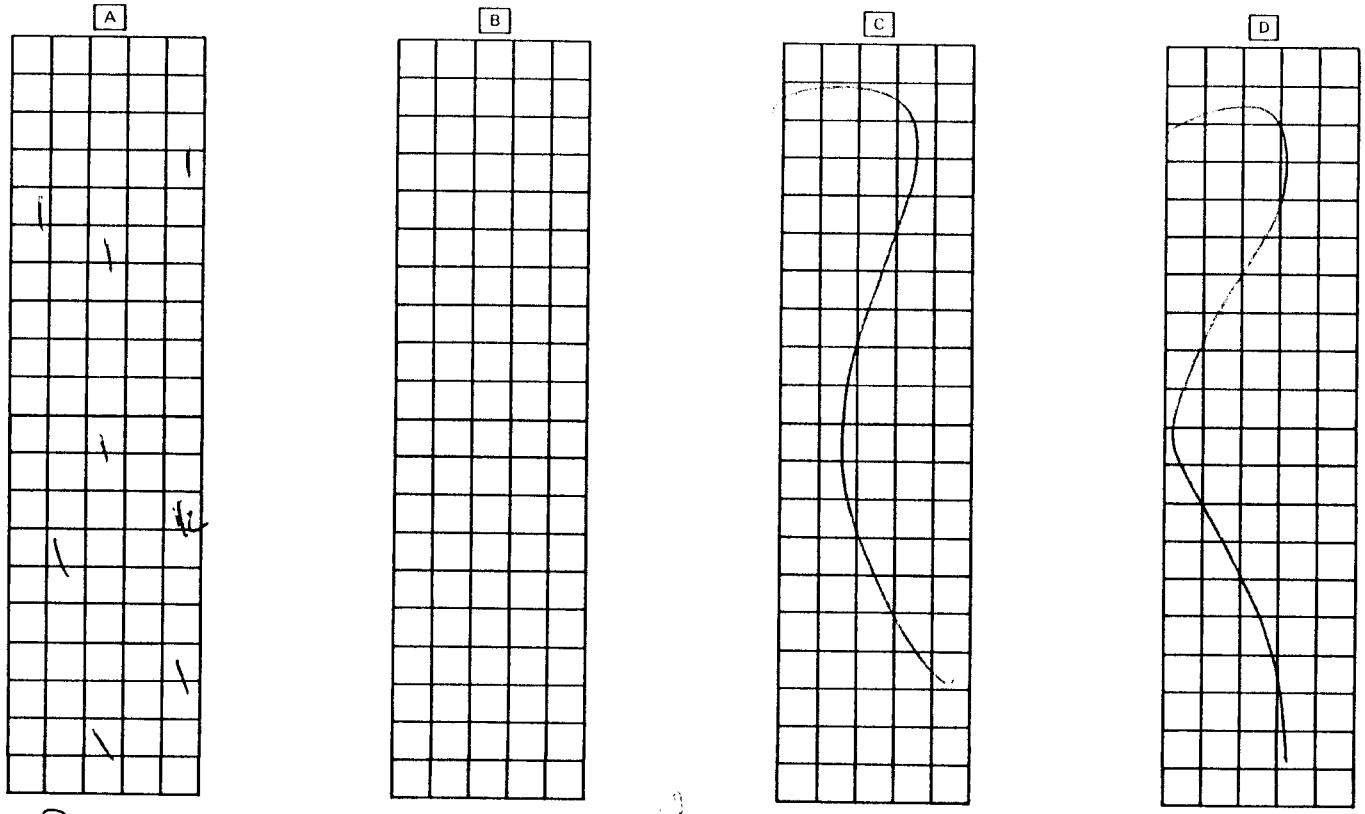
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Scott E. Dunn — FIELD TECH. — 9/10/93 DATE

ANALYST — 7-11-93 DATE

Tracor Technology Resources

1601 Research Boulevard
Rockville, Maryland 20850

Air Sample Sheet

Project # 57,10,029

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	288393	17	H.Vol	10.0	10.0	10.0	12:30	2:30	120	1200	4	100	0	4	20.0
A	Notes: Field 0														
B	288493	18	H.Vol	10.0	10.0	10.0	12:30	2:30	120	1200	5	100	0	5	25.0
B	Notes: Field														
C	288593	19	H.Vol	10.0	10.0	10.0	12:30	2:30	120	1200	3	100	0	3	15.0
C	Notes: Field														
D															
D	Notes:														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

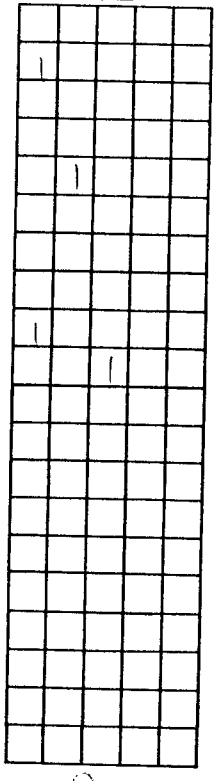
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A



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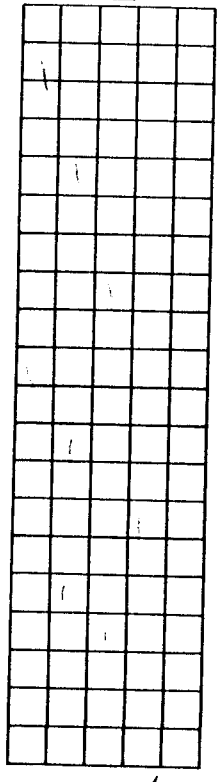

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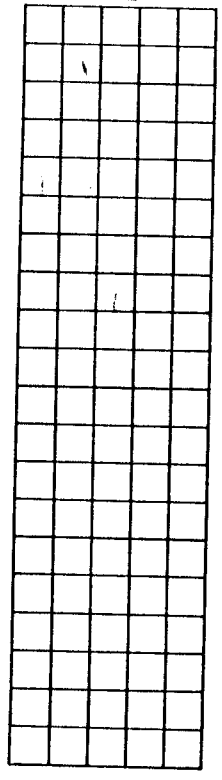
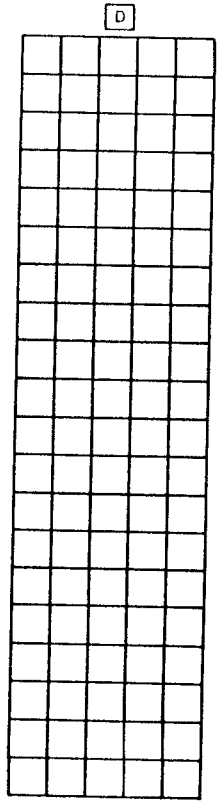


D



FIELD TECH. DATE

ANALYST DATE

Tracor Technology Resources | **Air Sample Sheet**

Project # 641029

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total Time	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	296293	01	23	2.5	2.5	2.5	4:25	~~1125~~ 1205 MJB	~~1205~~ 1140 MJB	~~460~~ 1150 MJB	14.5	100	.5	14	.006
A	Notes: INSIDE CONTAINMENT 9013														
B	296393	02	5113	2.5	2.5	2.5	4:28	1128	420	1050	9.5	100	.5	9	<.005
B	Notes: OUTSIDE DECON ENTRANCE														
C	296493	03	5112	2.5	2.5	2.5	4:35	1125	410	1025	4.5	100	.5	4	<.005
C	Notes: OUTSIDE 9013 CONTAINMENT STAIRWELL #3														
D	296593	04	5258	2.5	2.5	2.5	4:36	1135	419	1047.5	10	100	.5	9.5	<.005
D	Notes: OUTSIDE Critical BARRIER 9025														

Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

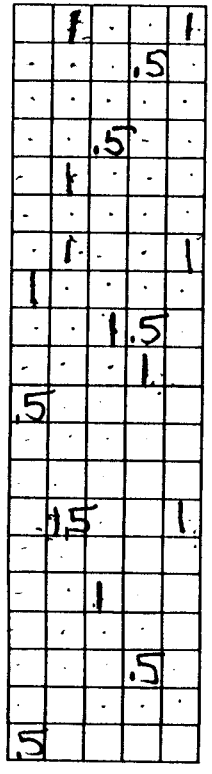
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

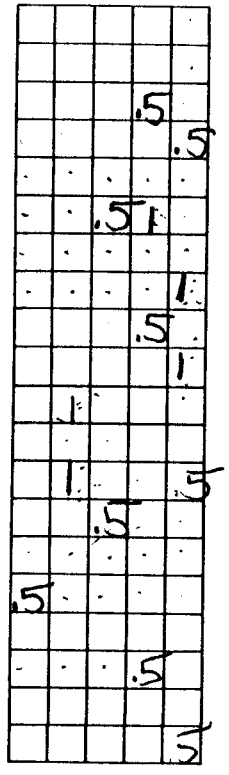
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

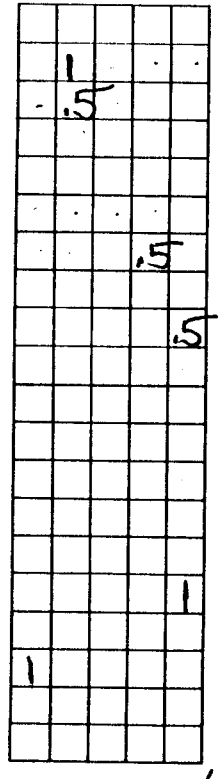
A: 14.5/100



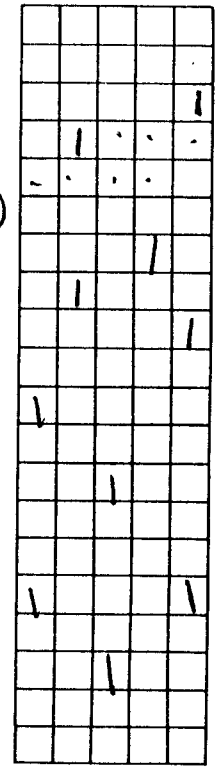
B: 9.5/100



C: 4.5/100



D: 10/100



Joseph D Eichenlaub 9/25
FIELD TECH. DATE

[redacted] 9/25/93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6,4,1,0,0,2,9,

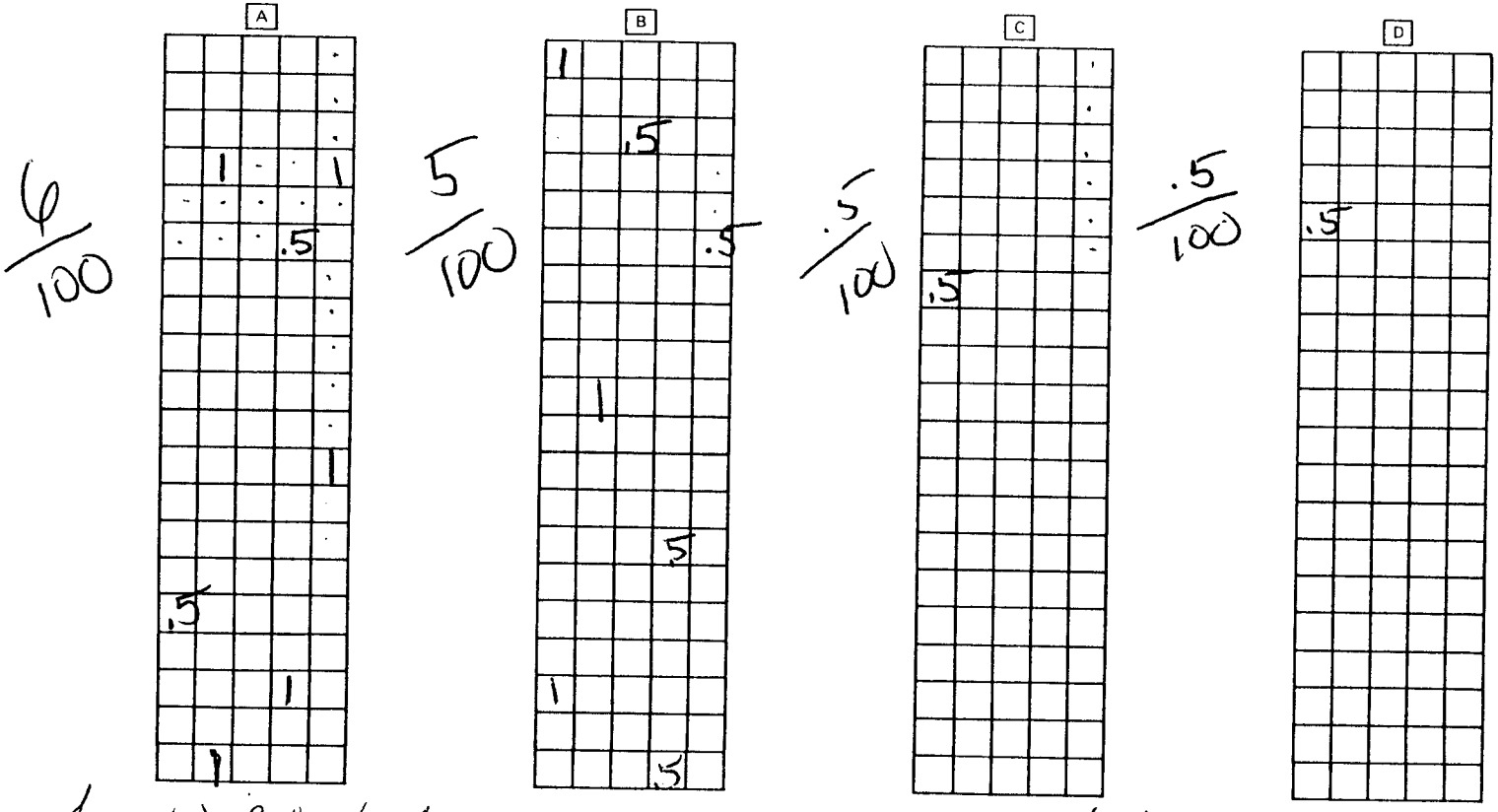
	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Mean (Liters/Min)	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	296693	05	5966	2.5	2.5	2.5	4:38	1135	417	1042.5	6	100	.5	5.5	<.005
A	Notes: OUTSIDE 9013 Stairwell #4														
B	296793	06	5341	2.5	2.5	2.5	4:40	1140	420	1050	5	100	.5	4.5	<.005
B	Notes: OUTSIDE Critical Barrier 9002														
C	296893	07	—	—	—	—	—	—	—	—	.5	100			
C	Notes: BLANK														
D	296993	08	—	—	—	—	—	—	—	—	.5	100			
D	Notes: BLANK														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Joseph D Eichenlaub
FIELD TECH. DATE

ANALYST 9/25/93
DATE

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6.4.1.0.0.2.9.0.1.

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Mean (Liters/Min)	Time (Military) On	Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc	
A	297093	9	23119	2.5	2.5	2.5	1600	—	520	1300	13	100	0	13	<0.01	.005
A	Notes: Outside Decon Entrance															
B	297193	10	23192	2.5	2.5	2.5	1600	—	340	850	6	100	0	6	<0.01	<.006
B	Notes: Micro Temp Exhaust Stanwell #3															
C	297293	11	23120	2.5	2.5	2.5	1602	—	618	1545	3 1/2	100	0	3 1/2	<0.01	<.003
C	Notes: Critical Barrier - Outside 9025															
D	297393	12	23198	2.5	2.5	2.5	1605	—	620	1550	4 1/2	100	0	4 1/2	<0.01	<.003
D	Notes: Critical Barrier - Outside 9002															

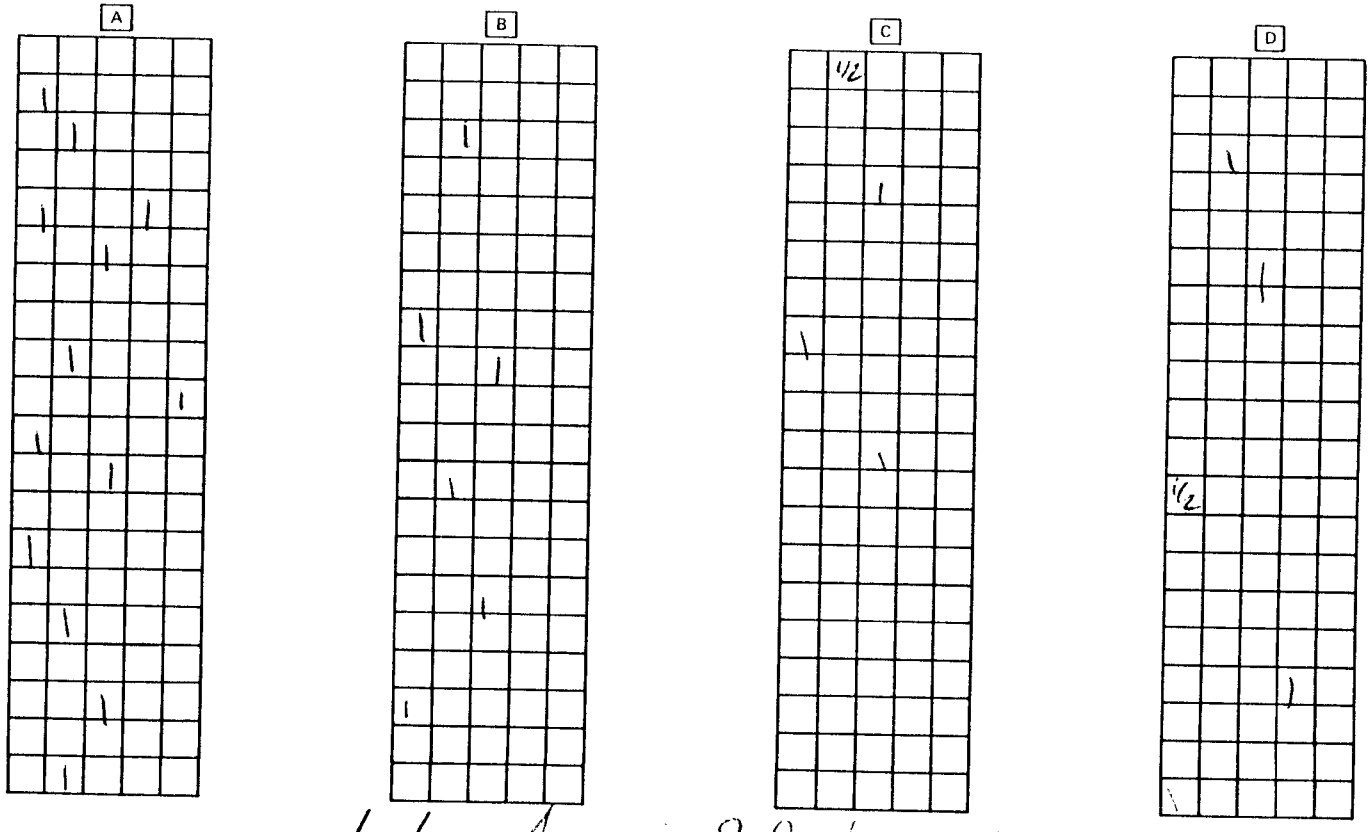
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



[signature] FIELD TECH. 9/25/93 DATE

Joseph D Eichenlaub 9/26 ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6.4.1.0.2.9.0.1.

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	297493	13	2311	2.5	2.5	2.5	1700	—	435	1087.5	16	100	0	16	.007
A	Notes: Inside Conference Room - Central														
B	297593	14		2.5	2.5	2.5	1705	—	320	800	1	100	0	1	<.001
B	Notes: Inside Containment														
C	297693	15	5112	2.5	2.5	2.5	0215	1005	470	1175	26.5	100	0	26.5	.01
C	Notes: INSIDE CONTAINMENT 9013														
D	297793	16	5944	2.5	2.5	2.5	0215	1005	470	1175	10.5	100	0	10.5	.004
D	Notes: OUTSIDE DECON ENTRANCE														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

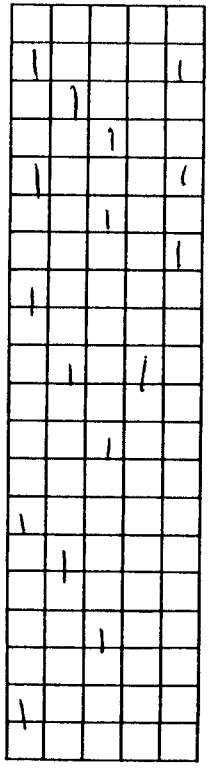
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

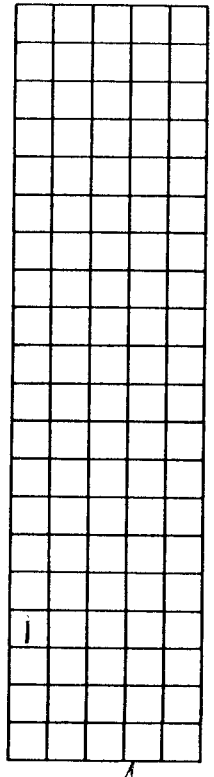
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

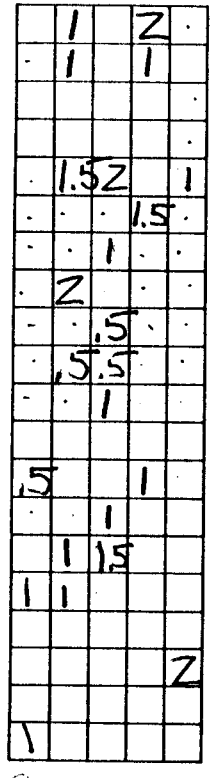


B



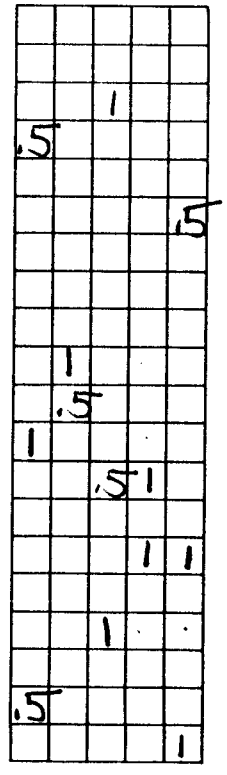
$\frac{26.5}{100}$

C



$\frac{10.5}{100}$

D



FIELD TECH. 9/25/93 DATE

ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6,4,1,0,0,2,9,0,1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	297893	17	5341	2.5	2.5	2.5	2.20	1020	480	1200	5.5	100	0	5.5	<.004
A	Notes: OUTSIDE Critical Stairwell #3														
B	297993	18	5258	2.5	2.5	2.5	2:24	1020	476	1190	6.5	100	0	6.5	<.004
B	Notes: OUTSIDE Critical Stairwell #4														
C	298093	19	3	10.0	10.0	10.0	1025	1225	120	1200				VOID	
C	Notes: FINAL AIR														
D	298193	20	44	10.0	10.0	10.0	10:25	1225	120	1200	3	100	0	3	<.004
D	Notes: FINAL AIR														

Pump Failure

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

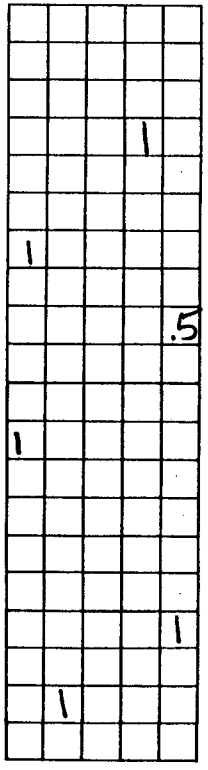
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

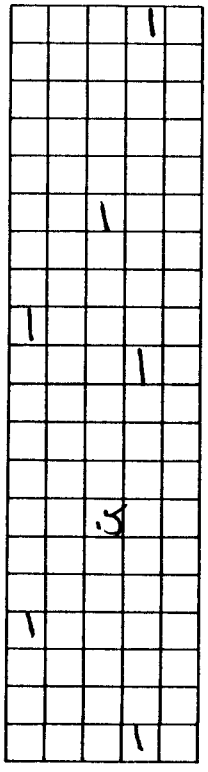
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

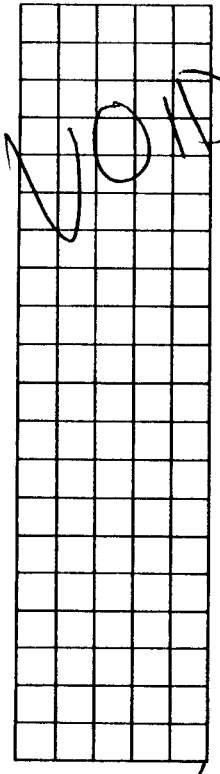
A: 5.5/100



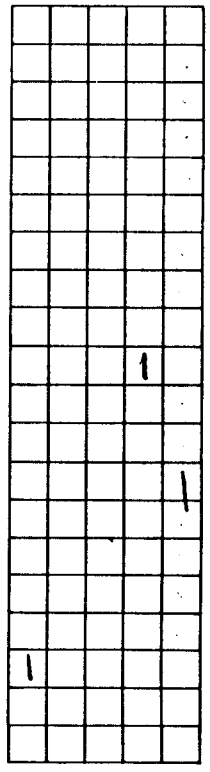
B: 6.5/100



C: VOID



D: 3/100



Joseph D Eichenbaum 9/26
FIELD TECH. DATE

ANALYST DATE 9/26/93

Tracor Technology Resources — **Air Sample Sheet**

Project # 6,4,1,0,0,2,9,0,1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	298293	21	17	10.0	10.0	10.0	1025	1225	120	1200	3.5	100	0	3.5	<.004
A	Notes: FINAL														
B	298393	22	13	10.0	10.0	10.0	1025	1225	120	1200	4.5	100	0	4.5	<.004
B	Notes: FINAL														
C	298493	23	1	10.0	10.0	10.0	1025	1225	120	1200	2	100	0	2	<.004
C	Notes: FINAL														
D															
D	Notes:														

Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

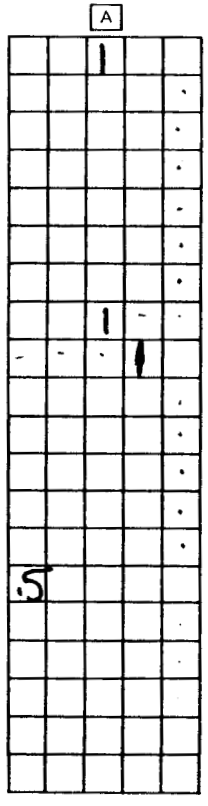
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

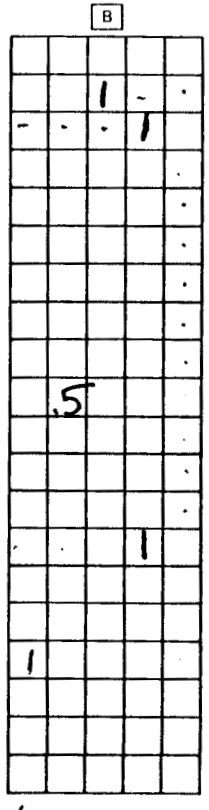
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

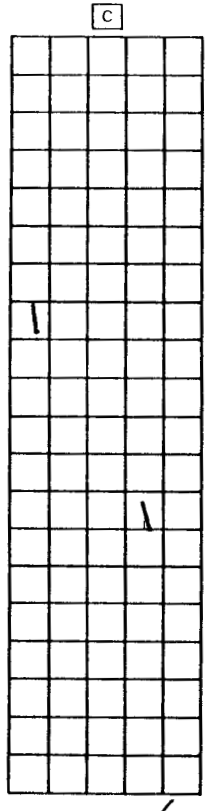
3.5/100

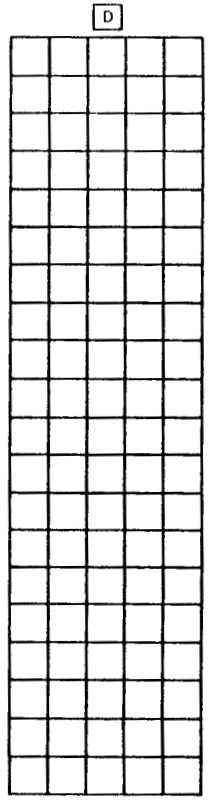


4.5/100



2/100





[signature] FIELD TECH. 9/26/93 DATE [signature] ANALYST 9/26/93 DATE

Tracor Technology Resources — Air Sample Sheet

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6,4,1,0,0,7,9,0,1,1

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	287593	9	T-3	2.5	2.5	2.5	1125	1000	635	1587.5	66½	100	0	66½	
A	Notes: Inside Containment														
B	287693	10	T-1	2.5	2.5	2.5	1125	1805	400	1000	20	100	0	23½	0.01
B	Notes: outside Top 5 Dose														
C	287793	11	T-2	2.5	2.5	2.5	1130	1525	395	987.5	6	100	0	6	<0.01
C	Notes: South Control Building on office building														
D	287893	12	T-3	2.5	2.5	2.5	1135	1800	395	987.5	5	100	0	5	<0.01
D	Notes: Control at North gate														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

2	2	1	2	1
2	1		1	
2		1		
1			1	
	2			
2		1	2	
1	1		2	
	2			1
1		2	1	
	1	2		
			½	
1		2½		
	2		½	
		3		
3	1		2	
2				
	1		½	
2				
	1		3	
	2			

B

		1		
1	[redacted]			1
1			1	
	[redacted]	1		
			1	
1				
			1	
	1			
		1		
1				
	1			
		1		
1				
	1			
			1	

C

	1			
1				
		1		
1				
		1		
1				

D

		1		
1				
		1		
		1		

J Golomb[illegible] 9-11-93
FIELD TECH. DATE

[illegible]
ANALYST DATE

Tracor Technology Resources — Air Sample Sheet

Project # 6,4,1,0,0,2,9,0,4

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	287943	13	F-5	2.5	2.5	2.5	1135	1810	395	987.5	3	100	0	3	0.01
A	Notes:		N-H Control Pm after												
B	288093	14	F-4	2.5	2.5	2.5	1230	1000	570	1425	8	100	0	8	0.01
B	Notes:		Control Pump Qm 63%												
C	288193	15	H-vol	10.0	10.0	10.0	1230	2330	1100	11000	1	100	0	1	0.00
C	Notes:		Field												
D	288293	16	H-vol	10.0	10.0	10.0	1230	2330	1100	11000	0	100	0	0	0.00
D	Notes:		Field												

Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

		1		
		1		
1				

B

	1			
1				
		1		
	1			
		1		
			1	
	1			
		1		

C

				1

D

		1		
1				
	1			
		1		

J Eckenbrecke 7-11-85
FIELD TECH. DATE

[illegible] [illegible]
ANALYST DATE

Page # 1

LOG SHEET

Date: 8/20/93

Project Number: 6410-029

Industrial Hygienist: SCOTT DUNN

Abatement Contractor/Supervisor: RETRO / BOB

Time	Remarks
1830	ARRIVE @ NEW EXECUTIVE OFFICE BUILDING.
1900	CHECK IN W/SECURITY AND GO TO 6th FLOOR.
2000	WORKERS SET UP ON THE WEST SIDE.
2100	SET UP CONTINUES.
2200	SAME
2300	SAME. MOST OF ROOMS ARE SET-UP. THE HALLWAY NEEDS TO BE COMPLETED.
0000	PREP CONTINUES.
0100	ROOMS ARE COMPLETE. WORKERS HAVE STARTED PREP IN HALLWAY
0200	WORKING ON HALLWAY
0300 - 0400	LOOKING ON HALLWAY AND DECON
0435	INITIAL INSPECTION LOOKS OK. NEGATIVE PRESSURE AT -0.024" wg.
0500	WORKERS IN CONTAINMENT REMOVING PERIMETER CEILING TILES AT NORTH END AND INSTALLING CRITICAL BARRIER ABOVE CEILING TILES.
0540	WORKERS START TO COME OUT. ELECTRICIANS IN SITE. SOME WORKERS STAY TO MOVE CEILING TILES OUT OF CONTAINMENT
0600	WORKERS CONTINUE TO MOVE TILES OUT OF CONTAINMENT
0610	ALL TILES ARE OUT OF CONTAINMENT. ALL WORKERS COME OUT OF CONTAINMENT EXCEPT ELECTRICIANS.
0715	TIR RELIEF MAN ARRIVES (BOB WELLS)

Page # 2

LOG SHEET

Date: 8-21-93

Project Number: 6410-029

Industrial Hygienist: B Kelly

Abatement Contractor/Supervisor: Retro

Time	Remarks
0700	B Kelly on site. Relieving S. Dunn.
	M. Jackson on site for OSF inspection
	S. Dunn briefed Kelly on progress of project
	The sprinklers were needed
0750	Problem with neg air. Up to -.06
0817	Neg air at -.02 in. IR picked up inside sample.
	IR noticed pipefitters going in containment with shoes on. They were told that they should have disposable booties for them.
0840	Inside sample was within limits
1000	Neg air fluctuating from -.016 down to -.02
1150	IR discovered that the inside sample #1 analyzed was the sample being run by Retro. IR retrieved the correct #1 and analyzed it. #1 had elevated fibers. The other samples from outside had very few to no fibers
1300	Crew going back in. New samples set
1400	Plumbing foreman going in to check on the progress
1500	Work continues. Neg pressure down to -.04
1600	Collected inside sample and analyzed. Few fibers
1700	Work continues.
1900	B. Kelly relieved by S. Dunn

Page # 1

LOG SHEET

Date: 8/21/93 (7:00pm — COMPLETION)

Project Number: 6410-029 (GUNS GWC)

Industrial Hygienist: SCOTT DUNN

Abatement Contractor/Supervisor: RETRO / BOB GURECKI

Time	Remarks
1845	TTR NIGHT PERSON RELIEVES DAY PERSON. SPRINKLERS INSTALLED
	AND PRESSURE TEST IS BEING PERFORMED AT THIS TIME
1900	ROBERT WELLS (TTR) LEAVES JOB SITE
2000	CEILING TILES ARE BEING INSTALLED; PRESSURE TEST ON STILL;
	ABATEMENT WORKERS ARE INSIDE CLEANING AND PULLING DOWN
~~[illegible]~~	CRITICAL BARRIERS NEG. PRESSURE AT ~0.032" wg
2015	PRESSURE TEST FOR THE SPRINKLERS PASSES.
2100	CEILING TILE CONTRACTOR DROPPING CEILING TILE.
2200	ABATEMENT WORKERS CONTINUE CLEANING AND COARLY ARE
	STILL INSIDE.
2220-2235	COARLY INSIDE FINISHING UP CEILING TILE PLACEMENT. TTR INSIDE
	WORK AREA SOME OF COARLY'S WORKERS (2) WORKING
	IN JUST TENNIS SHOES. THE WATER FOUNTAIN WAS
	APPARENTLY USED INSIDE THE CONTAINMENT (THE PLASTIC
	WAS CUT OPEN). THE ~~[illegible]~~ NORTHERN MOST OFFICES (2) ~~HAD~~
	THE PLASTIC WALLS FALLING DOWN AND SMALL BITS OF
	SPRAY-ON INSULATION ON FURNITURE. ABATEMENT WORKER
	CLEAN THE AREA AND RE-HANG THE PLASTIC WALL.
	NEG PRESSURE @ -0.025" w.g.
2300	Coarly's work is inspected
2330	WORKERS START BAGGING OUT MATERIAL
1205-1230	FINAL VISUAL INSPECTION PERFORMED. WORKERS CLEANED AS INSTRUCTED
	THRU THE INSPECTION. MEETS TTR'S APPROVAL. WORKERS
	BEGIN ENCAPSULATION
1305	FINAL AIR SAMPLES SET UP.

Page # 1

LOG SHEET

Date: 9/10/93

Project Number: 6410-029

Industrial Hygienist: SCOTT DUNN

Abatement Contractor/Supervisor: RETRO — BOB

Time	Remarks
0630	TTR ARRIVES ON SITE
0700	ENTER BUILDING (New COB)
0700-0300	WORKERS SET UP CONTAINMENT
0330	TTR INSPECTS WORK AREA FOR STARTUP.
0400	RETRO ENTERS WORK AREA. PULLS TILES AROUND
	PERIMETER AND INSTALL CRITICAL ABOVE SUSPENDED
	CEILING
0500	ELECTRICIAN ARRIVES ON 6th FLOOR
0540	RETRO STARTS REMOVING TILES FROM CONTAINMENT
0600	RETRO CONTINUES MOVING TILES OUT OF CONTAINMENT
0700	[illegible] on site [illegible] Dan [illegible] the
	[illegible] the [illegible] the containment
0800	[illegible] site
0900	Retro [illegible] to lay out [illegible] containment
	Crew is setting up [illegible] containment on
	the 4 [illegible] of the hallway on the 6th
	Floor to contain dust while cutting holes in
	[illegible] wall [illegible] Disturbance
1030	Retro on break [illegible] smooth
	+ [illegible] should be finishing up [illegible]
	[illegible] on site to [illegible]
1045	[illegible] off site
1150	Collecting 1st set of samples + setting up
	2nd set
1200	Pulling 1st set of Samples
1300	Went to progress meeting

Page # 2

LOG SHEET

Date: 9-11-93

Project Number: 6410-029

Industrial Hygienist: Gobombiski / Eichenlaub

Abatement Contractor/Supervisor: Retzo / Gorecki

Time	Remarks
1400	Progress Meeting over - @ Union Light + Power
	will be wrapping up at 1500 - 1600 hrs
	Automatic Sprinkler will be trying up + having the
	water test on approximately 1600 - 1700 hrs.
1500	Automatic putting on the water test but
	still have to run a line in the hallway that
	will not be tested this week. UL + Power
	only for inspection in 20 minutes
1600	Water test still running
1700	Pipe fitters still working in the hallway +
	water test still on
7:00am	Arrived at IPEC - John on site
	went around and checked ~~[illegible]~~
	all samples
7:00	John leaves site no problems
	everybody working to the Decontamination
	Area
7:15	Coordinator Crew arrives no problems
8:30	[illegible]
	[illegible]
9:00	[illegible]
	[illegible]
10:00	Retzo [illegible]

Page #_____

LOG SHEET

Date: 9/12/93

Project Number: 1640-029

Industrial Hygienist: [illegible]

Abatement Contractor/Supervisor: [illegible]

Time	Remarks
[illegible]	[illegible]
	[illegible]
[illegible]	[illegible]
	[illegible]
[illegible]	[illegible]
2:30	Sample [illegible]
3:0	[illegible]

Page #_____

LOG SHEET

Date: 9-24-93

Project Number: 6410-029

Industrial Hygienist: Joseph D Eichenlaub

Abatement Contractor/Supervisor: RETRO

9/24 Shift 9/25
7:00pm 7:00Am

Time	Remarks
6:30pm	ARRIVED AT NEOB - EVERYBODY ONSITE AND
	ESCORTED to the 9th FLOOR
7:00	on the 9th FLOOR - RETRO Starting to SET-up
	WORK area 9013 Hallway and offices
8:00	Same As above
9:00-12:00	WORKERS have SET-up most of the Wall and
9/22	floor poly
12:00-2:00	WORKERS SETting up the hall way no problems
	Encountered
2:00-4:00Am	WORKERS putting down drop Cloth - WORKER taking
	in Replacement lights
	WORKERS have 20 negative pressure exhaust units
	placed inside. WORKERS only have to establish
4:10	negative pressure and SET-up the decontamination
	unit
5:00	INitial inspection passes. may have a problem
	with back pressure because of the outside windows
	the negative pressure -0.024 WORKERS (RETRO) Getting
	Ready to enter the Containment AND Remove Ceiling
	tiles and Place Critical barriers - all area samples
	are Setup and Running
6:00	RETRO WORKERS ARE inside taking down Ceiling tile
	NEGATIVE PRESSURE OK - 0.020
6:30	No problems RETRO Removing Ceiling tiles Critical
	barriers above the Ceiling Completed
7:00	No problems RETRO Removing Ceiling tiles negative
	Pressure -0.028

Page #_____

LOG SHEET

Date: 9/26/93

Project Number: 6410-029

Industrial Hygienist: Micheel Brower

Abatement Contractor/Supervisor: _____

Time	Remarks
0700-	Brower on Site - Ceiling tile is about Completed
0800-	Ceiling Men Finishing up
0900-	Ceiling is Completed - Retco Does Clean-up
0945-	Visual Inspection
1025-	Final Air Samples Running
1225-	Final Air Samples off
1250-	Final Clearance Given to Retco - they Start tear down
1330-	off Site.

Blank MJB 9/26/93

Page # 2

LOG SHEET

Date: 9/25/93

Project Number: 6410 - 029

Industrial Hygienist: Michael Brower

Abatement Contractor/Supervisor: Retro/ Scott

Time	Remarks
0700 -	Brower on Site Waiting for Escort
0800 -	Joe Eichenlaub of Site Workers (Retro) Are
	removing Ceiling tiles
0900 -	Electricians Are removing Lights & Pipe fitters
	Are Starting with their pipe. Fitters are
	talking about walking off the site after
	10-12 hours (finished or Not)
1000 -	Ceiling tiles still on their way out.
1200 -	Ceiling tiles All out - Electricians are Working
	On Lights & fitters Working on Main
1300 -	In progress meeting
1400 -	It looks like we will be here untill
	Late Sunday Night or early monday morning.
	Fitters Do not Want to Work more than
	10-12 hrs.
1600 -	Second Set of Samples running at this time.
1730 -	Fitter Knocks Down A light & trips the
	Breaker - Negative pressure is lost - I
	Stop all work untill - Union light Can get
	the traps back on. Two (2) fitters have
	already left - down to only 6 fitters who
	have been here since about Six O'clock.
1800 -	Joe Eichenlaub on Site
1900 -	Brower off Site.

Page #_____

LOG SHEET

7:00pm - 7:00Am

Date: 9/21 - 9/22

Project Number: 6410-029

Industrial Hygienist: Joe Eichenlaub

Abatement Contractor/Supervisor: RETRO

Time	Remarks
6:15	arrived at NEOB
	Sprinkler crew worker are still
	placing sprinkler main are in place
	workers still ~~[illegible]~~ Running take offs
	and Heads
7:30	Mike Brower leaves site and will
	be back at 7:00Am
8:30	No problems Automatic still inside
9:30	Same as above no problems negative
	pressure -0.024
10:30	No problems workers inside
11:30	worker have @ 20 Heads left to place
12:00	Automatic worker (5) take break
1:00	Automatic workers are inside working on
	the last 10 heads
2:00	SAME AS above the Ceiling tile crew arrives
	2:30 workers have most of the replacement
	tiles outside the Decon Entrance
2:40	Ceilingtile crew enters the containment
	area.
3:30	No problems Ceilingtile crew replacing
	tiles along the Edges of the containment
4:30	Automatic completed worker starting to
	shower out pressure test started
5:00	Ceiling tile crew break @ 1/3 completed
	they got the OK to replace all the tiles
	except along the main.
6:15	RETRO worker arrive - Ceiling tile crew still inside over 1/2 Ceiling

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB

Project: SPRINKLERS

Location: 6WB + 6WC

Date: 8/20/93

Removal Contractor: RETRO

Time Inspected: 0450 (8/21)

Monitoring Contractor: TTR

Time Work Started: 0500 (8/21)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	✓	
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: Scott Dunn Date: 8/21/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEW EXECUTIVE OFFICE BLDG **Project:** SPRINKLERS

Location: 6th FLOOR (6WB + 6WC) **Date:** 8/20/93

Removal Contractor: RETRO **Time Started:** ~~0500 (8/20/93)~~ 1900 (8/20)

Monitoring Contractor: TTR **Time Stopped:** ~~0700~~ (8/21)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03" > 0.02"wg	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	N/A	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: Scott Dunn Date: 8/21/93

CIH

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: Sprinklers

Location: 6WB + 6WC Date: 8.21.93

Removal Contractor: Retro Time Started: 0630

Monitoring Contractor: Tracor Time Stopped: 0730

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	0.032	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	N/A	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	N/A	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No problems encountered - Stairwells clear.

Report Prepared By: [signature] Date: 8.21.93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6410-029

Location: 6th floor west Date: 8-21-93

Removal Contractor: Retro Time Started: 0700

Monitoring Contractor: Tracor Time Stopped: Continued

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	n/a	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA TS face PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: E Hall Date: 8-21-93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: New Executive Office Building Project: SPRINKLERS

Location: 6WB + 6WC Date: 8/21/93

Removal Contractor: RETRO Time Started: 1900

Monitoring Contractor: TTR Time Stopped: 0400

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03" <0.02"wg	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	~~N/A~~ ✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: Scott Dunn Date: 8/22/93

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: New Executive Office Building Project: Sprinklers

Location: 6WG & 6WC Data: 8/25/93

Removal Contractor: Retro Time Inspected: 1215

Monitoring Contractor: TTR Time Completed: 1230

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	yes	
	b. Horizontal Surfaces.	yes	
	c. Pipes.	yes	
	d. Ventilation Equipment.	yes	
(above eye level)	e. Horizontal surfaces.	yes	
	f. Pipes.	yes	
	g. Ductwork.	yes	
	h. Registers	yes	
	i. Lights.	yes	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	13	14	15	16	17
Location:	inside WA	inside WA	inside WA	inside WA	inside WA
Volume (Liters):	1200	1200	1200	1200	1200
Flow rate: (Liters/Minute)	10	10	10	10	10
Fibers/Filter:	1.5	3	2.5	3	1
Fibers/Cubic Cm:	<0.004	<0.004	<0.004	<0.004	<0.004

ANALYST ANALYZING SAMPLES: Scott Dunn DATE: 8-22-93

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: Scott Dunn Date: 8-22-93

REPORT REVIEWED BY: _____ DATE: _____

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEW EXECUTIVE OFFICE BUILDING **Project:** SPRINKLERS

Location: 6th FLOOR – SW SIDE **Date:** 9/10/93

Removal Contractor: RETRO **Time Inspected:** 0330 (9/11/93)

Monitoring Contractor: TTR **Time Work Started:** 0400 (9/11/93)

Inspection Catagory	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	✓	
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	N/A	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: SCOTT E. DUNN Date: 9/10/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEW EXECUTIVE OFFICE BLDG Project: SPRINKLER

Location: 6th FLOOR – SW Date: 9/10/93

Removal Contractor: RETRO Time Started: 0400 (9/11/93)

Monitoring Contractor: TTR Time Stopped: 0700 (9/11/93)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > ~~.03"~~ .02	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP "C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: SCOTT DUNN Date: 9/10/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: Sprinklers

Location: 6th Floor Date: 9.11.93

Removal Contractor: Retro Time Started: 10:00

Monitoring Contractor: Tecnus Time Stopped: 10:40

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	0.020	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	N/A	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP "C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Open 480V electrical panel in Rm 6329
Reported to John Fang of Illinois Light + Power. 10:35
He agreed to correct immediately

Report Prepared By: [signature] Date: 9-11-93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6410-029

Location: 6th Floor Date: 9-11-93

Removal Contractor: Retro Time Started: 0700

Monitoring Contractor: TTR Time Stopped: 1900

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 9-11-93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: [illegible] Project: [illegible]

Location: [illegible] Date: [illegible]

Removal Contractor: [illegible] Time Started: _____

Monitoring Contractor: [illegible] Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	[illegible]	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	[illegible]	
	f. Negative pressure > .03"	[illegible]	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No problems Encountered

Report Prepared By: Joseph D Eichenbrak Date: 9-12-93

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: [illegible] Project: 640-029

Location: [illegible] Date: 9-10-93

Removal Contractor: [illegible] Time Inspected: _____

Monitoring Contractor: [illegible] Time Completed: _____

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	NA	
	d. Ventilation Equipment.	NA	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	NA	
	g. Ductwork.	NA	
	h. Registers	NA	
	i. Lights.	NA	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	15	16	17	18	19
Location:	INSIDE	INSIDE	INSIDE	INSIDE	INSIDE
Volume (Liters):	1200	1200	1200	1200	1200
Flow rate: (Liters/Minute)	10.0	10.0	10.0	10.0	10.0
Fibers/Filter:					
Fibers/Cubic Cm:					

ANALYST ANALYZING SAMPLES: _____ DATE: _____

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No problems Encountered

Report Prepared By: Joseph D Eichenlaub Date: 9/12/93

REPORT REVIEWED BY: _____ DATE: _____

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB

Project: 6410-029

Location: 9013 d Hallway

Date: 9/24 7:00pm / 9/25 7:00 Am

Removal Contractor: RETRO

Time Inspected: 9/21 5:00 Am

Monitoring Contractor: TRACOR

Time Work Started: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	20	
	f. Negative pressure > .02"	0.024	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	NA	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No problems Encountered

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: Joseph D Eubanks Date: 9/25/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6410-029

Location: 9013 & Hallway Date: 9/25/93

Removal Contractor: Retec Time Started: 0700

Monitoring Contractor: TRACOR Time Stopped: 1900

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > ~~.03"~~ .02	yes	
2. Signage	a. Caution Signs at vestibule entry.	N/A	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	NA	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No Problems Encountered

Report Prepared By: Joseph D Eulenlaub Date: 9/25

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NE03 Project: 6410-029

Location: 9013 & Hall WAY Date: 9/25

Removal Contractor: RETRO Time Started: 5:00 Am

Monitoring Contractor: Macor Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	NA	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	20	
	f. Negative pressure > ~~.03~~".02	0.024	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 9/25/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6410-029

Location: 9013 Date: 9/25 7:00pm - 9/26 7:00am

Removal Contractor: PETRO Time Started: _____

Monitoring Contractor: TRACON Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	NA	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	20	
	f. Negative pressure > ~~.03"~~ .02	0.024	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No problems Encountered

Report Prepared By: Joseph D Eichenlaub Date: 9/22/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6410-029

Location: 9013 & Hallway Date: 9/26/93

Removal Contractor: Retro Time Started: 0700

Monitoring Contractor: Tracor Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > ~~.03"~~ .02	yes	
2. Signage	a. Caution Signs at vestibule entry.	N/A	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 9/26/93

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 6410-029

Location: 9013 E Hallway Date: 9/26/93

Removal Contractor: Retco Time Inspected: 0945

Monitoring Contractor: Teacor Time Completed: 1010

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	yes	
	b. Horizontal Surfaces.	yes	
	c. Pipes.	N/A	
	d. Ventilation Equipment.	yes	
(above eye level)	e. Horizontal surfaces.	yes	
	f. Pipes.	N/A	
	g. Ductwork.	N/A	
	h. Registers	yes	
	i. Lights.	yes	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	19	20	21	22	23
Location:					
Volume (Liters):	VOID	1200	1200	1200	1200
Flow rate: (Liters/Minute)		10.0	10.0	10.0	10.0
Fibers/Filter:		3	3.5	4.5	2
Fibers/Cubic Cm:		<.004	<.004	<.004	<.004

ANALYST ANALYZING SAMPLES: _____ DATE: _____

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

_____

_____

_____

_____

Report Prepared By: [signature] Date: 9/29/93

REPORT REVIEWED BY: _____ DATE: _____

93-0932
Reviewed/Mailed
AUG 11 1993 T.S.
DC0105ZZ

TRACOR

Tracor Technology Resources, Inc.
1601 Research Boulevard
Rockville, MD 20850-3173
301 251-4911

√ CANOFILE - 930614

Project No.: 6410-029
Serial No.: JG-93-5131
ACT No.: P05554331

June 14, 1993

Ms. Normajean Eleazer
GSA, NCR, WPX, Room 2036
7th and D Streets, SW
Washington, DC 20407

Subject: PROGRESS REPORT I - NEW EXECUTIVE OFFICE BUILDING

Dear Ms. Eleazer:

This is a progress report on the asbestos abatement project that occurred at the New Executive Office Building on March 17 and 29, April 2-4 and April 15-18, 1993.

Personnel from Tracor Technology Resources, Inc. (TTR) monitored Retro Environmental, a licensed asbestos abatement contractor, removing approximately one hundred thrity five (135) square inches of asbestos containing deck insulation in each area, utilizing full containment procedures.

The Industrial Hygiene Consultant's responsibilities include conducting inspections of the worksite, assessing work practices, and collecting air samples. A total of fifty eight (58) air samples were collected. This project consisted of three (3) start up, ten (10) daily, and four (4) final inspection checklist reports.

The TTR Industrial Hygienist conducted daily air monitoring to determine work area fiber concentrations, and fiber levels outside the work area. In addition, the Industrial Hygienist conducted final inspections and clearance air testing. All final clearance air samples were below the required EPA level of 0.01 fibers per cubic centimeter (0.01 f/cc).

Air sample collection measurement and analysis followed the NIOSH 7400 Method A Rules. Air sampling pumps were calibrated both before and after collecting each sample set. Area samples were taken at ≥2.5 liters per minute, and all clearance samples were taken at 10.0 liters per minute.

During the course of the project TTR's Industrial Hygienist noted and dicussed improper decontamination procedures of people and materials. These problems were addressed on site and at progress meeting on April 20, 1993. In addition, on April 21, 1993, TTR's Certified Industrial Hygienist and Industrial Hygienist attended a progress

Page # 1

LOG SHEET

Date: 3/17/93

Project Number: 6410-029-01

Industrial Hygienist: B Sells

Abatement Contractor/Supervisor: Retro Environmental / Robert Gwecki
Tony Cruz

Time	Remarks
1500	IIR on site of NECB to take background samples on the 3-4-5 floor. Set up and running
1915	Retro on site. Conferred with IIR on exhausting the AFD. Division to try it the way the specs specified. Considerable misgiving on what will happen when exhausting in such close quarters
	IIR continuing to read background samples
2030	Retro setting up on the 3rd & 5th floor
2100	Retro still prepping containment
2115	Retro requested an inspection on 5th floor ACA. IIR inspected and gave Retro permission to abate
	IIR set one area sample to run for 4 hrs.
2215	Retro requested an inspection on 4th floor. IIR inspected and gave Retro permission to start abating. IIR then started an area sample outside the ACA
2355	Sheetmetal crew started installing the fire doors
0105	IIR inspected ACA on 5th floor and okd it for encapsulation
0110	IIR starting final samples in 5th floor ACA
0140	Retro requested a final inspection on the 4th floor ACA. IIR inspected and gave Retro permission to encapsulate

Page # 2

LOG SHEET

Date: 3/17/93

Project Number: 6410-029-001

Industrial Hygienist: B. Kelly

Abatement Contractor/Supervisor: Retro Environmental / B. Gwecki

Time	Remarks
0130	IIR started final sampling in 4th floor ACA.
	IIR discussed with Retro pulling a higher volume on the final samples in order to give Retro some cushion in case there was a problem. IIR agreed to pull 12 liters instead of 10 in order to give Retro at least a little time.
0345	Both areas on the 4th & 5th floors had fewer fibers than 0.01 f/cc and IIR informed Retro that they could remove the ACAs
0430	Retro and IIR off site

Page # 3

LOG SHEET

Date: 3/25/95

Project Number: 6710-029-01

Industrial Hygienist: B Wells

Abatement Contractor/Supervisor: Retro / Jurecki

Time	Remarks
1700	IR on site to run background on 8th floor. Discussed from conference C. Reeves that area will not be ready until 1900
1900	IR started background in 8020
1935	Retro on site. IR conferred with Retro concerning work to be done in ~~8020~~ BW 8020
2040	picked up BKG sample from 8020.
2100	Retro has completed mini containment in 8020 and workers have suited up to go in and conduct the pull test.
2115	Retro is ready on the 3rd floor. IR inspected the containment and gave Retro permission to begin abating. One crew suited up the ACA to work. IR started an area sample in the hall
2300	The metal workers have the door installed in the #3 freight lobby and are coming out of the ACA
2325	Retro requested a final inspection. IR inspected and gave Retro permission to encapsulate
2345	IR started final air in 3rd floor ACA
0150	IR pulled and analyzed 3rd floor ACA sample. Fiber level was less than the level recommended by EPA and IR gave Retro permission to return area to use
0230	IR and Retro off site

Page # 1

LOG SHEET

Date: April 2nd 1993 - Start Time [redacted] 1900 hrs

Project Number: 6410 029 01

Industrial Hygienist: Mike Brower

Abatement Contractor/Supervisor: Gurecki / Robert & David || Retro Environmental

Time	Remarks
[redacted] 1930 -	On Site H2O Problems Finding Quik-Fix
	John Golombieski will Bring Fix with
	Him at 0700 Saturday
2000 hrs -	Retro is Doing Prep in the Area - They
	have 11 men Working on poly & 4
	Getting HVAC Shut Down - I will
	Run Samples when negative Air is
	Established. Electricians are moving lights into the
	Area At this time.
2100 hrs -	Retro Continues to hang Poly - Some (3)
	Negative Air Filtration Devices Are Running
	At this time. I Spoke With Herb Panky
	& He tells me that We (Tracor) Should
	'Stick to the GSA Spec.
2200 -	Check to See if high Volume Pumps will
	Run at 2.5 LPM & they will - I will
	Run 4 low & 1 high Outside & 1 low inside
	the Containment. When J. Golombieski Comes
	in - he will Run high Volume pumps while the
	low Volume Pump charge back up.
2300 -	Containment is about Completed - Work begins on
	Decon Unit - then Workers will Continue with
	Cutouts above the Drop Ceiling. Spoke with
	Mr. Panky For A while about Air Sampling &
	The New President of Tracor. I also let him
	know how We will be Doing Shift Changes.

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LOG SHEET

Date: April 2nd & 3rd 1993

Project Number: 6410 029 01

Industrial Hygienist: M. Brower

Abatement Contractor/Supervisor: Robert & Dave Gurecki / Retro Environmental

Time	Remarks
2400 -	Sprinkler people Begin to Bring In Pipes - Retro is On Break - They have 3 stage up & will Start on Criticals above the Ceiling before any Work Begins. After I Perform A Visual - I will Start Air Samples
0100 -	Workers Are Doing Criticals Above the Ceiling & Trying To Establish Negative Pressure
0200 -	Work Continues On Criticals Above Ceiling They Should be Ready For A visual in a little while.
0230 -	I Enter the Containment to See if I Can Assist with obtaining negative Pressure.
0400 -	I Exited the Containment at about 0330 But Now they Are Holding at .032. I will Get Pumps Running
0500 -	Electricians in Containment turning Down Lights While Asbestos Workers Are Bringing Out the Lights and the Ceiling Tile.
0530 -	The Electricians are Bringing lights Down & Putting New ones up to Fast. This is Screwing the Sprinkler Guys.
0630 -	Retro leaves At this time New Shift is to Be In at 0700 Bob Reever is on Site

Page # 3

LOG SHEET

Date: 4/3/93

Project Number: 6410 029 01

Industrial Hygienist: Brower & Golombieski

Abatement Contractor/Supervisor: Retzo

Time	Remarks
0630	on site at front desk
0700	on site on 8th floor where I met Brower.
	He told me the scenario of the project and
	they hope to finish this evening around 2000 hrs.
0730	Mike Brower off site for the day. He
	will only return if necessary.
0730	Spoke with Bob Reeves - he feels everything
	is going fine most of the asbestos removal
	is finished at this point in time. I
	asked him if the final airs were waived from
	1960 to 1200 liters and he said no. Reading Mike's
	notes it says to stick w/ GSA specs so I
	will run (or Mike) finals for 1960 liters. Bob Reeves
	also said that after finals are run + cleared we
	do not have to remain on site for tear down.
0745	Power failure. Lost all neg. pressure. I
	let one man out and then he Retro seal
	the door until the problem is solved.
0755	I set up the 5 area sample at 10.0
	liters / minute
0800	Neg Pressure back in fact
0815	Went out to move my car it is in the
	parking garage around the corner
0900	Back - something has to be done about the
	parking situation this is ridiculous
0930	Took 2 bulk samples on the 10th floor

Page # 4

LOG SHEET

Date: 4/3/93

Project Number: 6410 029 01

Industrial Hygienist: Golomsiski

Abatement Contractor/Supervisor: Retro Environmental

Time	Remarks
0930	w/ Bob Reeves
1000	finished bulk samples + prepping a few samples
1050	pulled area samples
1100	2nd set area samples set up + running.
1130	prepping more samples for analysis
1200	I entered the containment to take some video tapes for Bob Reeves
1240	I showered out of the containment
1300	All samples read + below .01 f/cc I will attend a progress meeting that is supposed to start at 1300 hrs but is running behind schedule
1330	Meeting preparing to go under way - Want to clean finish to 1200 liters - Want to change neg. air from .03 to ≤.02 inches of water
1400	Meeting over plan on finishing at approximate 1am for us. Finals approximately starting at 2100 hrs. They will be taking off the weekend of 4/9/93 and starting again on the weekend of 4/16/93. They are 80 scheduled weekends
1440	Kokley preparing to send ceiling tile into the area they are scheduled to be doing ceiling tile from 1400 to 1900 hrs. 40 minutes behind schedule
1500	Talked to Bob Reeves about changing shifts to: Fri - 10pm - 8am Sat - 8am - 6pm Sat - 6pm - 2am? He said fine but talk to Tim Sheeth

Page # 5

LOG SHEET

Date: 4/3/93

Project Number: 6410 029 01

Industrial Hygienist: Golomstock / Brower

Abatement Contractor/Supervisor: Retro Environmental

Time	Remarks
1530	I asked Bob Reeves if Retro Encapsulated the scraped areas yet, because they guys from Kokley are ready to put in the drop ceiling. He asked Retro & they had not done that yet, so they have to go in & do that now before Kokley drops the ceiling into place.
1615	Crew (Retro) is completed w/ the encapsulation
1700	Sprinkler Crew still needs to run their water test will begin approximately 1800 hrs. Spoke w/ M Brower he will be here to relieve me & run final aires this evening
1730	I will pull the remaining area samples. I am not going to set a 3rd set because all that is really left is the water test, then encapsulation & then final aires.
1830	All samples prepped & read all below .01 f/cc Robert from Retro wants to eliminate the barriers above the drop ceiling I told him I could see his point but that is not my decision to make He will bring this up at the meeting on Tuesday along with the neg air & length of final air testing.
1845	Bob Reeves off site & Herb Panky is taking over
1900	Brower On Site - I will Enter the Containment - there is Some Question

Page # 6

LOG SHEET

Date: 4/3/93 - 4/4/93

Project Number: 6410-029-01

Industrial Hygienist: Brownie

Abatement Contractor/Supervisor: Retreo / Rob & Dave Gurecki

Time	Remarks
	about the Beaver above the Ceilings -
2000 -	Out of Containment - I Found Some
	Areas that Have holes in Poly - I
	tell Retreo to Fix this - Pressure is
	Down - I want to See Pressure
	Go up Before - Critcals Came Down
2100 -	Workers Are Removing Critcals
2200 -	Critcals are Down & Cozily Will Go in
	to Fix Some of the Tiles & Give It
	Their blessing - Retreo has Pulled up the
	Drop cloth & Will Do Some Fine cleaning,
2300 -	I will Be Going into the Containment
	shortly
2400 -	Exit Containment - Everything is Good - I
	Had to Get Workers to Patch Some
	holes & pick up Some Debris before
	I Would let them Encapsulate
0115 -	All Final Air Samples Running
0431 -	Pulled Samples
0500 -	Samples O.K. & Workers Begin to tear
	Down Containment
0530 -	Brauer off Site for the Day.
	Blank MJB 4/4/93

Page # 1

LOG SHEET

Date: April 16, 1993

Project Number: NEOB 7410 029

Industrial Hygienist: Golom Siesti

Abatement Contractor/Supervisor: Retro Dave + Bob

Time	Remarks
1830	on site at NEOB
1915	Escorted to the 8th floor where no work will be performed until later this evening. While talking to Retro's supervisor – he said "They will do the 10th floor containment first and then begin the 8th floor containment. He won't be ready for a visual until about 3 or 4 am.
1945	Retro removing furniture from the 10th floor. + hanging poly
2120	Crew finished poly. At the 10th floor + preparing to head down to the 8th floor
2215	lights being brought into the floor construction of containment has begun on the 8th floor
2310	Talking with Dave from Retro – trying to see how the neg. air machines could be hooked up to achieve .02 + we decided to exhaust 2 traps into the stairwell. He said its in the scope so we will see + then go with it.
2330	Retro takes a break
2400	Retro back to work
0100	Crew about 50-60% completed with the containment may be ready by 0330 – 0400 hrs.
0230	Constructing decon at about 90-95% still need to hook up traps

Page # 2

LOG SHEET

Date: 4/17/93

Project Number: 7410 029

Industrial Hygienist: Golombieski

Abatement Contractor/Supervisor: Rentco / Dave - Bob

Time	Remarks
0330	Containment set up, decon set up, traps set up but not running. Crew Taking a 20-30 minute break.
0350	Crew back from break found a vent on in one of the windows taking care of that talked to Panky about it
0415	Crew beginning to drop perimeter tile and put up criticals neg air before tile drop .028 once tiles begin to drop down to .004 - .008 inches of water
0430	Electricians on site + upset that ~~they~~ the lights are inside the containment on 10 and outside on 8th floor they wanted it the other way around
0530	I suited up and went in they were about 60-80 done with the criticals
~~at~~ 0545	I came out + neg air was .012 inches water
~~0600~~	~~[illegible]~~
0600	Negative air up to .04 inches of water all criticals sealed + crew beginning to take down the tile
0630	Set up 1st set of area samples
0650	I held the crew up while I looked for Bob Reeder I don't feel hepa-vacing ceiling tile + bringing them out as non ACM waste is sufficient but I can't find Bob + they did it that way last week while I didn't know that so It's in the scope of work to do it that way so do it.

Page # 3

LOG SHEET

Date: 4/17/93

Project Number: 7410 - 029 -

Industrial Hygienist: Brower

Abatement Contractor/Supervisor: Reteo / Dave & Bob

Time	Remarks
0700 -	On Site - Find John Golombieski talking with Bob Reever about ceiling tile.
0730 -	Golombieski off Site & I am trying to Find a parking Spot.
0830 -	lights Going in Containment
0900 -	Electricians pulling lights Down & installing New One's
1000 -	Going to Run Backgrounds For Next Weekend with Bob Reever. - Pipe fitters Go into the Containment
1025 -	Backgrounds Running - Workers (Not Reteo) are Not putting tape over their Respirators - I will Bring this up in the meeting.
1225 -	Background Samples pulled at this time
1250 -	Switch area Samples.
1310 -	Attend progress meeting
1430 -	Out of Meeting I will Start to Reep & Read Slides.
1600 -	Lights coming out of Containment. Reteo feels that they will be ready for final Visual Around 2400 or 0100 hrs. Neg pressure is .032 in H_2O
1700 -	Reteo Comes Out - fitter are Still Installing pipes & Electrician is Doing Fire Alarm System.
1800 -	Same - Fitters & Electrical Still in Contain

Page # 4

LOG SHEET

Date: 4/17/93

Project Number: 7410-029-01

Industrial Hygienist: Brewer / Golombiski

Abatement Contractor/Supervisor: Retro / Dave & Bob

Time	Remarks
1900 –	J Golombiski on site at front desk
1920 –	Golombiski on site a 8th floor
1940 –	M Brewer off site + I'm taking over
1945 –	Neg air dropped .008 – .012
2005	I suited up ~~[illegible]~~ did not enter containment because Bob got the air back up to .024 by sealing the open lights in the hallway + going back to 9 traps
2030	Negative air is holding at .024
	Pipe fitters are running about 1-2 hours behind schedule
2130	I had a talk with Crunkley + H. Pankey about the non-abatement crews wearing clothes in the containment (shirts/socks/shoes) not taping their respirators when they come out + not showering out properly
2215	Coakley finished dropping tile. The 8th floor just waiting on the sprinkler crew now. They still have to put the sprinkler heads on. Before they can do the pressure test
2300 –	I had a meeting with H. Pankey, Crunkley,
2400	+ Retro about the items that need to be changed + they took me seriously this time + they will be discussed + changed.
0145	Sprinkler test (pressure test) is on
	Retro inside cleaning up and will be
	fine cleaning during pressure test
0230	I did a visual inspection + every thing

Page # 5

LOG SHEET

Date: 4/8-97

Project Number: 7410-029

Industrial Hygienist: Gordon Sieber

Abatement Contractor/Supervisor: Retro / Bob

Time	Remarks
0230	looks fine. now waiting for sprinkler system to finish + the Retro can do their encapsulate
0330	Sprinkler test is done now the electricians are doing some work in their which will probably call for another cleaning by Retro we will see. They also have to remove the criticals and finish the ceiling tile before encapsulation + finals
0415	Electrician finished + off site
0445	Retro begins dropping criticals
0500	Dave went in to check on things and give me an approximation of when they will be ready for finals.
0530	He said maybe by 0630 maybe earlier, maybe later
0640	Getting ready to go in and do a final visual again with Dave from Retro the Tile guy is finished and on his way out
0700	I passed the containment M Brewer arrives on site to take over
0720	I am off site encapsulation began at 0710 hrs.
0700-	Brewer On Site - I Don't Know why
	0720 - Encapsulation is Completed - I will Run
	My Final Air Samples At 0900 hrs &

Page # 6

LOG SHEET

Date: 4/18/93

Project Number: 7410-029-01

Industrial Hygienist: Brower

Abatement Contractor/Supervisor: Rotco/Bob

Time	Remarks
	pull them at 1000 hrs.
0900-	All Fans Running
1000-	Fans off & OK
1030-	off Site

Page # 1

LOG SHEET

Date: April - 20, 1993

Project Number: 6410-029

Industrial Hygienist: Gobombieski

Abatement Contractor/Supervisor:

Time	Remarks
0830	Meeting at GSA Project Management Office
	Which included GSA - Project Management
	H. Pankey, Harmon, Bob Reeves
	General Contractor - Ben Stonestreet
	Secret Service - 2 people
	1 Lady from the escort service
	They discussed this past weekends work and
	the set up for this coming weekend
	After the meeting myself, H. Pankey & Reeves,
	and Ben Stonestreet discussed the problems I
	observed over the last two weekends of work
	• Improper Shower
	• Improper Clothing in the containment
	• Improper Decontamination of materials
	• Not Taping Respirators
	• Not Using Sign-in sheet.
	After meeting I was asked to attend a
	meeting on 4-21-93 at Grunley's office at 1000 hrs.
1030	hrs meeting over.

Page # 1

LOG SHEET

Date: April 21, 1993

Project Number: 6410 - 029

Industrial Hygienist: Galom Sieski

Abatement Contractor/Supervisor:

Time	Remarks
1000	Myself + Mike Larson attended a meeting at Gronley's office. I chaired the meeting at first to talk over problems with Gronley, Retro, Union Light + Power, Coakley, and the pipe fitters.
	We ~~Assed~~ discussed the problems observered
	· Improper Showers
	· Improper Clothing in containment
	· Not Taping Respirators
	· Not Using Sign-In Sheets
	· Not Decontaminating Materials Properly.
	All contractors took notes + understood that these problems will be corrected + set in stone. If they violate we will take names + give to Bob Reeser / Chris Pauly + they will handle it from there
	Bob Reeser was present + agreed to all the points that I addressed.
	Mike Larson was introduced as our CIH and will be on site at least 1 time per weekend.
1045	Meeting over.

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB Project: 6410-029-01

Location: BW 3-4-5-8 floors Date: 3/17/93

Removal Contractor: Retro Environmental Time Inspected: 2115, 2215

Monitoring Contractor: Tracor Time Work Started: 2200 2230

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. Seals around ducts, windows and doors	yes	
	d. Vertical and Horizontal Openings	yes	
	e. "Microtrap" in use	yes	
	f. Negative pressure > .02"	na	
2. Signage	a. Caution Signs at vestibule entry.	na	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA Half face PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Four ACA's on 4th & 5th floor

No ACM removal on 8th floor

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: B Falls Date: 3/17/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEQB

Project: 6410-039-01

Location: BW 3-4-5-8 floors

Date: 3/17/93

Removal Contractor: Retro Environmental

Time Started: 1915

Monitoring Contractor: Tracor

Time Stopped: _____

Inspection Catagory	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	no	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	no	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA 1/2 face PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Low ACM's on 4th & 5th floors
No ACM removal on the 8th floor

Report Prepared By: B Wells Date: 3/17/93

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 6410-029-01

Location: BW 3-4-5-8 floors Date: 3/17/93

Removal Contractor: Retro Environmental Time Inspected: _____

Monitoring Contractor: _____ Time Completed: _____

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	yes	
	b. Horizontal Surfaces.	yes	
	c. Pipes.	na	
	d. Ventilation Equipment.	na	
(above eye level)	e. Horizontal surfaces.	yes	
	f. Pipes.	na	
	g. Ductwork.	na	
	h. Registers	na	
	i. Lights.	yes	

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB Project: 6410-029-01

Location: 3rd & 8th floors Date: 3/25/93

Removal Contractor: Retro Time Inspected: 2115

Monitoring Contractor: Theorr Time Work Started: 2125

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. Seals around ducts, windows and doors	yes	
	d. Vertical and Horizontal Openings	yes	
	e. "Microtrap" in use	yes	
	f. Negative pressure > .02"	yes	
2. Signage	a. Caution Signs at vestibule entry.	no	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	08	09			
Location:	5th ACA inside	4th ACA inside			
Volume (Liters):	1200	1200			
Flow rate: (Liters/Minute)	12	12			
Fibers/Filter:	5	7			
Fibers/Cubic Cm:	<0.004	<0.005			

ANALYST ANALYZING SAMPLES: B Hells DATE: 3/17/93

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Higher flow rate used because of time restrictions in finishing the work

Report Prepared By: B Hells Date: 3/17/93

REPORT REVIEWED BY: _____ DATE: _____

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ___ HEPA To face PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: B Falls Date: 3/25/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: 6410-029-01

Location: 3rd + 8th floors

Date: 3/25/93

Removal Contractor: Petro

Time Started: 2115

Monitoring Contractor: Thacor

Time Stopped: 0230

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	na	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	na	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ___ HEPA 1/2 face PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Sells Date: 3/25/93

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 6410-029-01

Location: 3rd & 8th floors Date: 3/25/93

Removal Contractor: Retro Time Inspected: ~~1415~~ ~~BW~~ 1525

Monitoring Contractor: Tracor Time Completed: ~~2120~~ ~~BW~~ 2330

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	yes	
	b. Horizontal Surfaces.	yes	
	c. Pipes.	yes	
	d. Ventilation Equipment.	n/a	
(above eye level)	e. Horizontal surfaces.	yes	
	f. Pipes.	n/a	
	g. Ductwork.	yes	
	h. Registers	yes	
	i. Lights.	yes	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	12				
Location:	inside				
Volume (Liters):	1200				
Flow rate: (Liters/Minute)	10				
Fibers/Filter:	3				
Fibers/Cubic Cm:	<0.004				

ANALYST ANALYZING SAMPLES: B Fells DATE: 3/25/93

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Fells Date: 3/25/93

REPORT REVIEWED BY: _____ DATE: _____

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6410-029-01

Location: 8th Floor Date: 4/2/93

Removal Contractor: Retro Time Started: 1900

Monitoring Contractor: Trecor Time Stopped: 2400

Inspection Category	Activity to be Checked	Within Limits		Problem Encountered
1. Work site Isolation	a. Perimeter Barrier			
	b. Decontamination Curtains			
	c. GLOVE BAG PROJ			
	d. Seals around ducts, windows and doors			
	e. "Negative air machine" in use			
	f. Negative pressure > .03"		N/A	
2. Signage	a. Caution Signs at vestibule entry.			
	b. OSHA SIGN (ASBESTOS)			
	c. Dumpster, ducts, drums, and bags labelled			
3. Work Practices	a. Hammers, saws, etc. NOT in use.			
	b. Removed Material Promptly Bagged.			
	c. Debris Stored in removal area.			

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.		
	e. Material Kept Wetted Until Bagged.		
4. Worker Protection	a. Disposable Clothing Used One Time.		N/A
	b. Proper NIOSH respirators.	Disp HEPA PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed		
5. Showers	a. Functioning?		
	b. Soap and Towels?		
	c. Used Each Departure?		
6. Work Habits In Work Area	a. No Smoking		
	b. No Eating/Drinking		

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

WORKERS SETTING UP CONTAINMENT AT THIS TIME

Report Prepared By: [signature] Date: 4/2/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project:

Location: 9TH floor

Date: 4/3/93

Removal Contractor: RETRO

Time Started: ~~[illegible]~~ MJB 0001

Monitoring Contractor: TRACOR

Time Stopped: 0730

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	/	
	b. Decontamination Curtains	/	
	c. GLOVE BAG PROJ	No	
	d. Seals around ducts, windows and doors	/	
	e. "Negative air machine" in use	/	
	f. Negative pressure > .03"	/	
2. Signage	a. Caution Signs at vestibule entry.	/	
	b. OSHA SIGN (ASBESTOS)	/	
	c. Dumpster, ducts, drums, and bags labelled	/	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	/	
	b. Removed Material Promptly Bagged.	/	
	c. Debris Stored in removal area.	/	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 4/3/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: 6410 029 01

Location: 8th Floor

Date: 4/3/93

Removal Contractor: Retro

Time Started: 0700

Monitoring Contractor: Tracor

Time Stopped: 1900

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	No	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.		✓
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 4/3/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: 6410-029-01

Location: 8th floor

Date: 4/3/93 - 4/4/93

Removal Contractor: Retro

Time Started: 1900

Monitoring Contractor: Trzcar

Time Stopped: 0530

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	NO	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 4/4/93

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: C410-029-01

Location: 8TH FLOOR Date: 4/4/93

Removal Contractor: Peter Time Inspected: 2400 hrs 4/3/93

Monitoring Contractor: Terzcor Time Completed: 0530 4/4/93

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	N/A	
	d. Ventilation Equipment.	N/A	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	N/A	
	g. Ductwork.	N/A	
	h. Registers	✓	
	i. Lights.	✓	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	18	19	20	21	
Location:					
Volume (Liters):	1960	1960	1960	1960	
Flow rate: (Liters/Minute)	10.0	10.0	10.0	10.0	
Fibers/Filter:	3	2.5	3.5	4	
Fibers/Cubic Cm:	≤.003	≤.003	≤.003	≤.003	

ANALYST ANALYZING SAMPLES: [signature] DATE: 4/4/93

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 4/4/93

REPORT REVIEWED BY: _____ DATE: _____

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB Project: 7410-029

Location: 8th Floor ACM Removal / 10th Floor Date: 4/16/93 / 4/17/93

Removal Contractor: Retro Time Inspected: 0545

Monitoring Contractor: TRACOR Time Work Started: 0600

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	✓	
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR ✓ TYP"C" ✓	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: J Colom Snyder Date: 4/17/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: 7410-029

Location: 8th Floor ACM Removal / 10th Floor

Date: 4-16-93 / 4-17-93

Removal Contractor: Retro

Time Started: 1900 hrs

Monitoring Contractor: TRACOR

Time Stopped: 0730 hrs

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	—	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: J Coolombrisk Date: 2/17/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: 7410-029

Location: 8TH floor

Date: 4/17/93

Removal Contractor: Rebco

Time Started: 0700

Monitoring Contractor: TRZCOR

Time Stopped: 1900 MTB

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimetar Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > ~~.03"~~ .02	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 4/17/93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NFOB Project: 7410-029

Location: 8th Floor Date: 4/17/93 - 4/18/93

Removal Contractor: Reteo Time Started: 1900

Monitoring Contractor: FTR Time Stopped: 0720

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	✓	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: John Golubiewski Date: 4-18-93

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 7410-029

Location: 8th floor Date: 4/18/93

Removal Contractor: Retro Time Started: 0700

Monitoring Contractor: TTR Time Stopped: 1030

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > ~~.03"~~ .02	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR ✓ TYP "C" ✓	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 4/18/93

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 9410-029-a

Location: 8th Floor Date: 4/18/93

Removal Contractor: Reteo Time Inspected: 0635

Monitoring Contractor: TTR Time Completed: 1030

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	✓	
	d. Ventilation Equipment.	✓	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	?	
	g. Ductwork.	?	
	h. Registers	?	
	i. Lights.	?	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	18	19	20	21	
Location:					
Volume (Liters):	1200	1200	1200	1200	
Flow rate: (Liters/Minute)	10.0	10.0	10.0	10.0	
Fibers/Filter:	1.5	5	3	4	
Fibers/Cubic Cm:	<.004	<.004	<.004	<.004	

ANALYST ANALYZING SAMPLES: [redacted] DATE: 4/8/93

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

This "?" is only because the visual is conducted after the ceiling tile is put back in place

Report Prepared By: John Colombaitis Date: 4-18-93

REPORT REVIEWED BY: _____ DATE: _____

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

03/23/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
641002901	84793	1	03/17/93	BKG	< 0.005
641002901	84893	2	03/17/93	BKG	< 0.005
641002901	84993	3	03/17/93	BKG	< 0.005
641002901	85093	4	03/17/93	OUT	BLANK= 0.00
641002901	85193	5	03/17/93	OUT	BLANK= 0.00
641002901	85293	6	03/17/93	OUT	< 0.006
641002901	85393	7	03/17/93	OUT	< 0.005
641002901	85493	8	03/17/93	FIN	< 0.004
641002901	85593	9	03/17/93	FIN	< 0.004

KEY:
- BKG BACKGROUND
- FIN FINAL
- PER PERSONAL
- GVB GLOVE BAG
- INS INSIDE CONTAINMENT
- OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL L. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

04/05/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
641002901	107493	10	03/25/93	BKG	0.007
641002901	107593	11	03/25/93	OUT	< 0.009
641002901	107693	12	03/25/93	FIN	< 0.004
641002901	107793	13	03/25/93	OUT	BLANK= 0.00
641002901	107893	14	03/25/93	OUT	BLANK= 0.00

KEY: BKG BACKGROUND
FIN FINAL
PER PERSONAL
GVB GLOVE BAG
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY

MICHAEL L. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

04/07/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
641002901	109193	1	04/01/93	bkg	< 0.005
641002901	109293	2	04/01/93	bkg	< 0.005
641002901	109393	3	04/01/93	out	BLANK= 0.00
641002901	109493	4	04/01/93	out	BLANK= 1.00
641002901	109593	5	04/03/93	out	0.005
641002901	109693	6	04/03/93	out	< 0.005
641002901	109793	7	04/03/93	out	< 0.005
641002901	109893	8	04/03/93	out	< 0.005
641002901	109993	9	04/03/93	out	< 0.005
641002901	110093	10	04/03/93	ins	< 0.018
641002901	110193	11	04/03/93	out	BLANK= 1.00
641002901	110293	12	04/03/93	out	BLANK= 1.00
641002901	110393	13	04/03/93	out	< 0.005
641002901	110493	14	04/03/93	out	< 0.005
641002901	110593	15	04/03/93	out	< 0.005
641002901	110693	16	04/03/93	out	< 0.005
641002901	110793	17	04/03/93	out	< 0.005
641002901	110893	18	04/04/93	fin	< 0.003
641002901	110993	19	04/04/93	fin	< 0.003
641002901	111093	20	04/04/93	fin	< 0.003
641002901	111193	21	04/04/93	fin	< 0.003

KEY: BKG BACKGROUND
FIN FINAL
PER PERSONAL
GVB GLOVE BAG
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY
MICHAEL L. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

04/19/93

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
641002901	143293	1	04/15/93	BKG	< 0.005
641002901	143393	2	04/15/93	BKG	< 0.005
641002901	143493	3	04/15/93	OUT	BLANK= 0.00
641002901	143593	4	04/15/93	OUT	BLANK= 1.00
641002901	143693	5	04/17/93	OUT	< 0.005
641002901	143793	6	04/17/93	OUT	< 0.005
641002901	143893	7	04/17/93	OUT	< 0.005
641002901	143993	8	04/17/93	OUT	< 0.005
641002901	144093	9	04/17/93	OUT	< 0.005
641002901	144193	10	04/17/93	INS	< 0.010
641002901	144293	11	04/17/93	OUT	BLANK= 1.00
641002901	144393	12	04/17/93	OUT	BLANK= 1.00
641002901	144493	13	04/17/93	OUT	< 0.005
641002901	144593	14	04/17/93	OUT	< 0.005
641002901	144693	15	04/17/93	OUT	< 0.005
641002901	144793	16	04/17/93	OUT	< 0.005
641002901	144893	17	04/17/93	OUT	< 0.005
641002901	144993	18	04/18/93	FIN	< 0.004
641002901	145093	19	04/18/93	FIN	< 0.004
641002901	145193	20	04/18/93	FIN	< 0.004
641002901	145293	21	04/18/93	FIN	< 0.004
641002901	145393	22	04/18/93	OUT	BLANK= 1.00
641002901	145493	23	04/18/93	OUT	BLANK= 0.00

KEY: BKG BACKGROUND
FIN FINAL
PER PERSONAL
GVB GLOVE BAG
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL L. EDWARDS
LABORATORY MANAGER

Tracor Technology Resources — **Air Sample Sheet**

Project # 6410-029-01

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	84793	01	1122	10	10	10	1715	1851	96	960	8	100	0	8	<0.005
A	Notes: Bckgrnd - 5th floor freight elevator NEOB														
B	84893	02	1119	10	10	10	1724	1900	96	960	2	100	0	2	<0.005
B	Notes: Bckgd - 4th floor freight elevator lobby NEOB														
C	84993	03	1179	10	10	10	1725	1901	96	960	0	100	0	0	<0.005
C	Notes: Bckgd - 3rd floor freight elevator lobby NEOB														
D	85093	04									0	100	0		
D	Notes: Blank														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

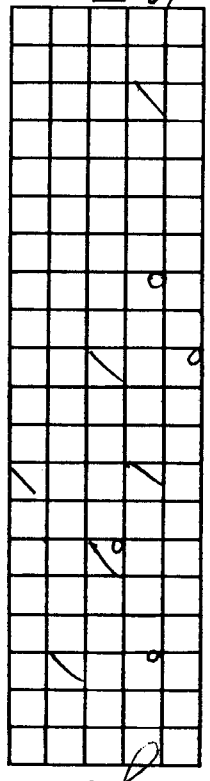
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

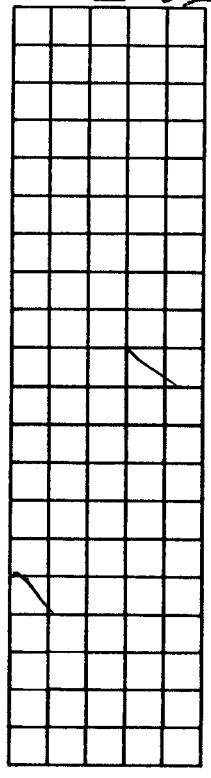
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

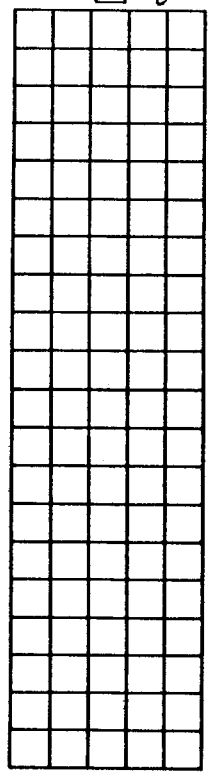
A 01



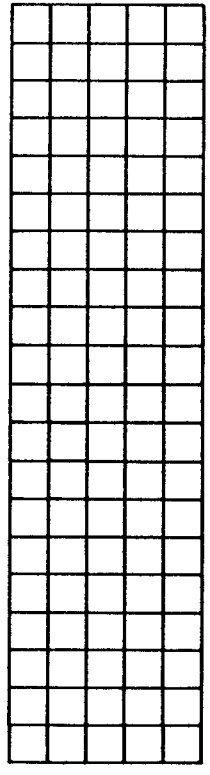
B 02



C 03



D 04



B Falls 3/17/93
FIELD TECH. DATE

B Falls 3/17/93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6410-029-01

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	85193	05									0	100	0		
A	Notes: Blank														
B	85293	06	1119	4	4	4	2228	0152	204	816	4.5	100	0	4.5	0.006
B	Notes: Out-area - 4th floor W elevator lobby NEOB														
C	85393	07	1122	4	4	4	2128	0112	224	896	7.5	100	0	7.5	0.005
C	Notes: Out-area - 5th floor W elevator lobby NEOB														
D	85493	08	1122	12	12	12	~~0052~~ 0112 BW	0252	100 ~~78~~ BW	1200	5	100	0	5	0.004
D	Notes: Final - 5th floor ACA														

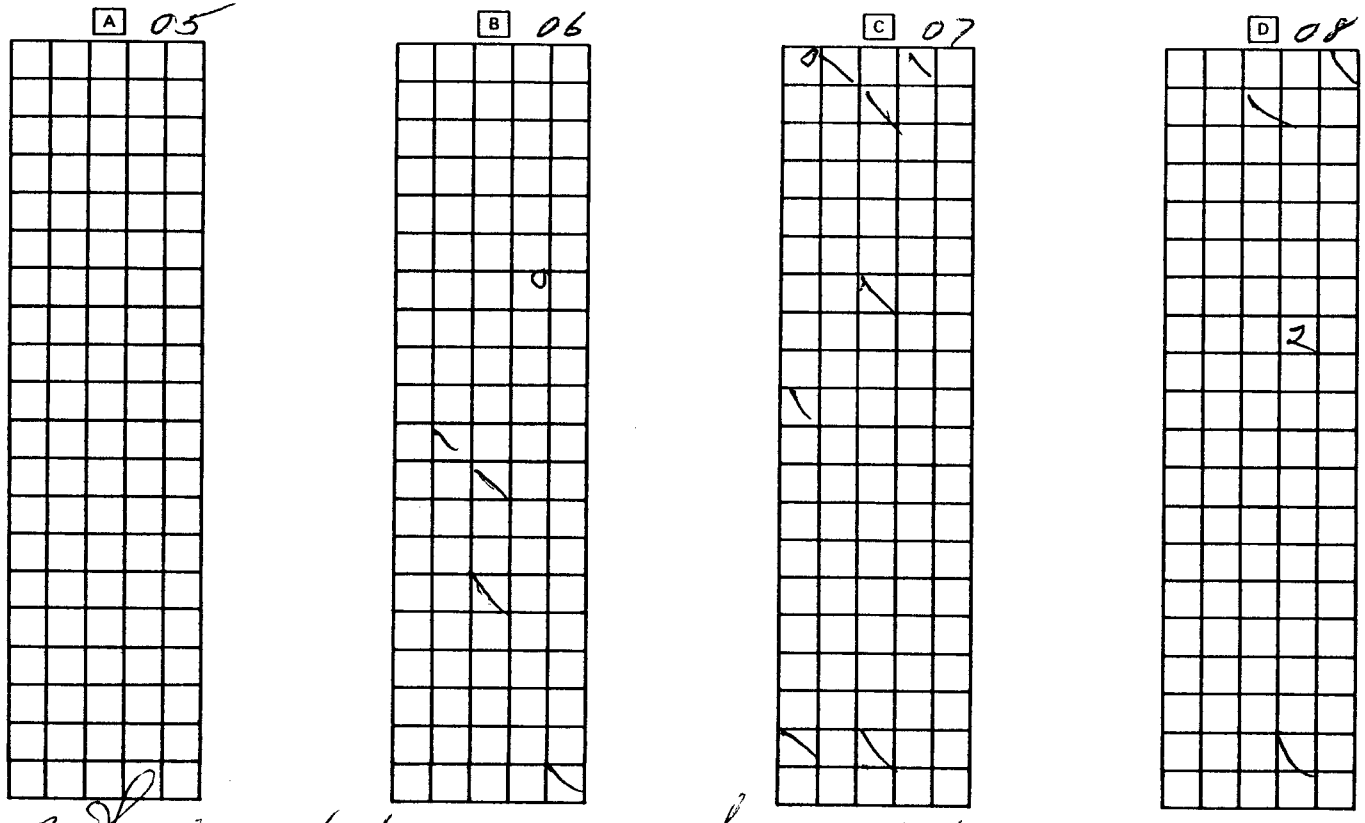
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



B Nell 3/17/93
FIELD TECH. DATE

B Nell 3/17/93
ANALYST DATE

Tracor Technology Resources | **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6410-029-01

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	85593	09	1119	~~0152~~ 12	12	12	0152	0332	100	1200	7	100	0	7	~~0.005~~ BW <0.004
A	Notes: Final - 4th floor BW ACA														
B		~~10~~													
B	Notes:														
C		11													
C	Notes:														
D		~~12~~													
D	Notes:														

Field Area: (Check One) ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

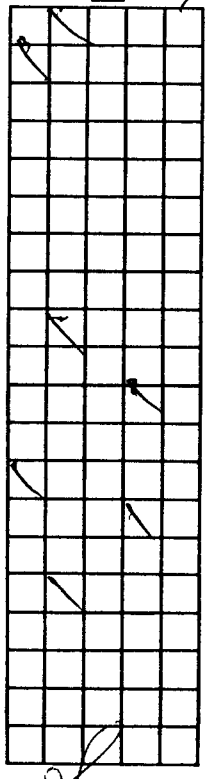
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

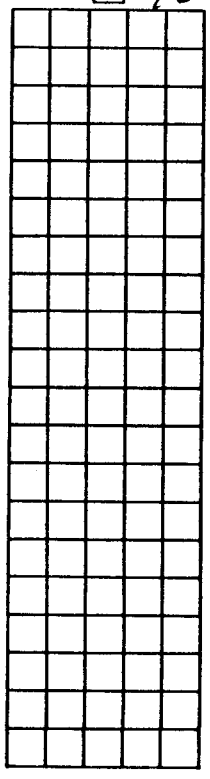
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

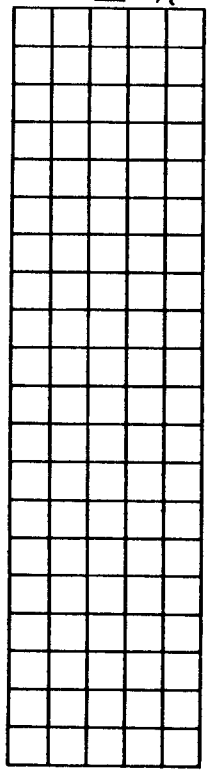
A 09



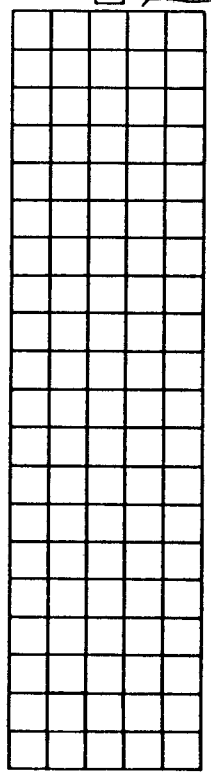
B 10



C 11



D 12



B. Stelle 3/17/93
FIELD TECH. DATE

B. Stelle 3/17/93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6410-029-01

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	107493	10	1122	10	10	10	1904	2040	96	960	13.5	100	0	13.5	0.009
A	Notes: Bkg - 8th Floor - 8020														
B	107893	11	1122	4	4	4	2130	2343	133	532	5	100	0	5	<0.009
B	Notes: Out-area - 3rd floor - freight elevator lobby														
C	107693	12	1122	10	10	10	2346	0146	120	1200	3	100	0	3	<0.004
C	Notes: Final - 3rd floor ACA														
D	107793	13									0	100	0		
D	Notes: Blank														

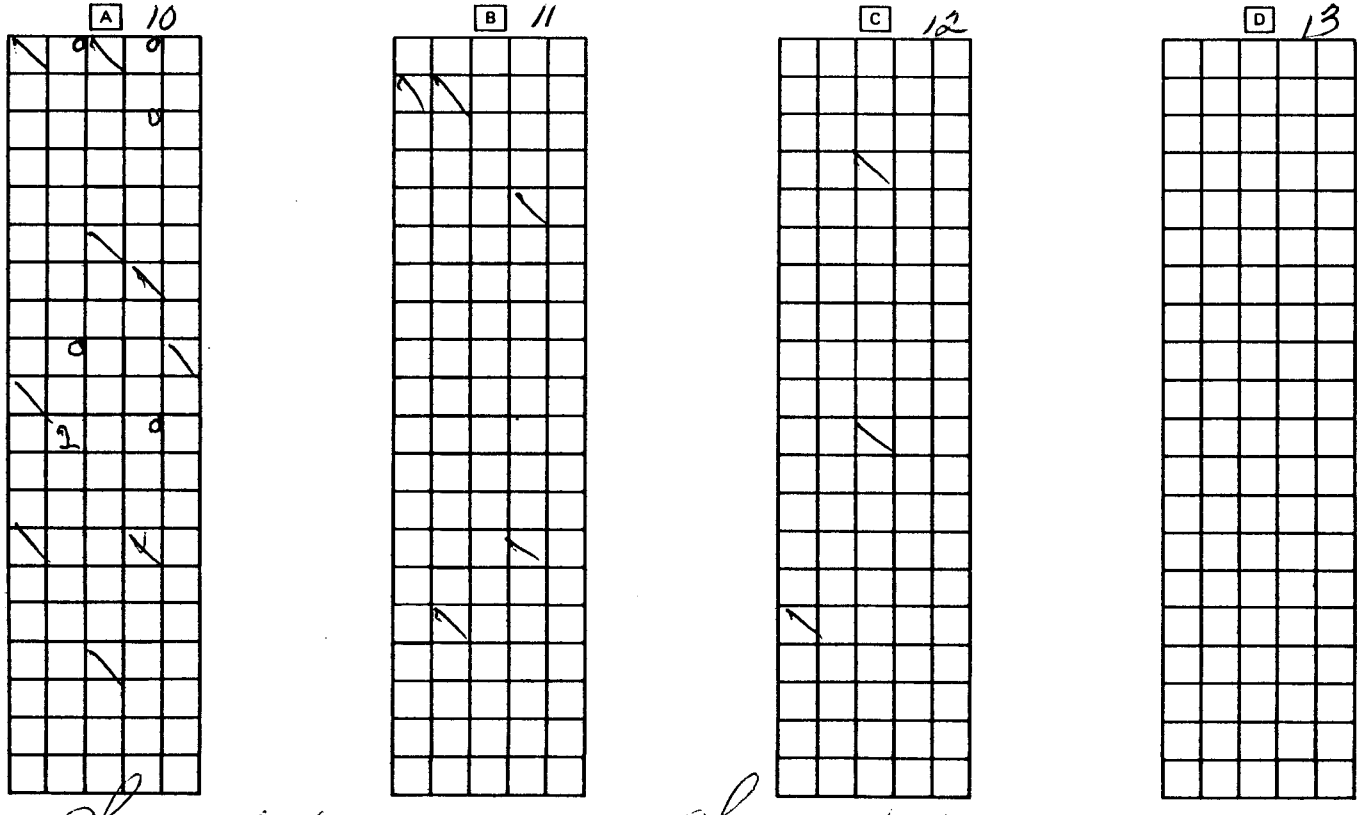
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



B Hills 3/25/93
FIELD TECH. DATE

B Hills 3/25/93
ANALYST DATE

Tracor Technology Resources | **Air Sample Sheet**

Project # 6110-039-01

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data Total Count	Count Data Fields Counted	Count Data Blank Count	Count Data Net Count	Fibers Per cc
A	107893	14									0	100	0		
A	Notes: Blank														
B															
B	Notes:														
C															
C	Notes:														
D															
D	Notes:														

Field Area: (Check One)
- ☒ .00785
- ☐ .00754
- ☐ .00724
- ☐ .00801
- ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- ☒ 25 mm (385 sq mm)
- ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A 14

B

C

D

B Stalls 3/25/93
FIELD TECH. DATE

B Stalls 5/25/93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6.4.1.10.0.2.9.0.1.1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Mean (Liters/Min)	Time (Military) On	Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	109193	01	Z3	10.0	10.0	10.0	1915	2055	100	1000	6	100	0	~~100~~ 6	<.005
A	Notes: Background Sample														
B	109293	02	10	10.0	10.0	10.0	1915	2055	100	1000	7	100	0	~~1~~ 7	<.005
B	Notes:														
C	109393	03	—								0	100	0	—	
C	Notes: Blank														
D	109493	04	—								0	100	0	—	
D	Notes: Blank														

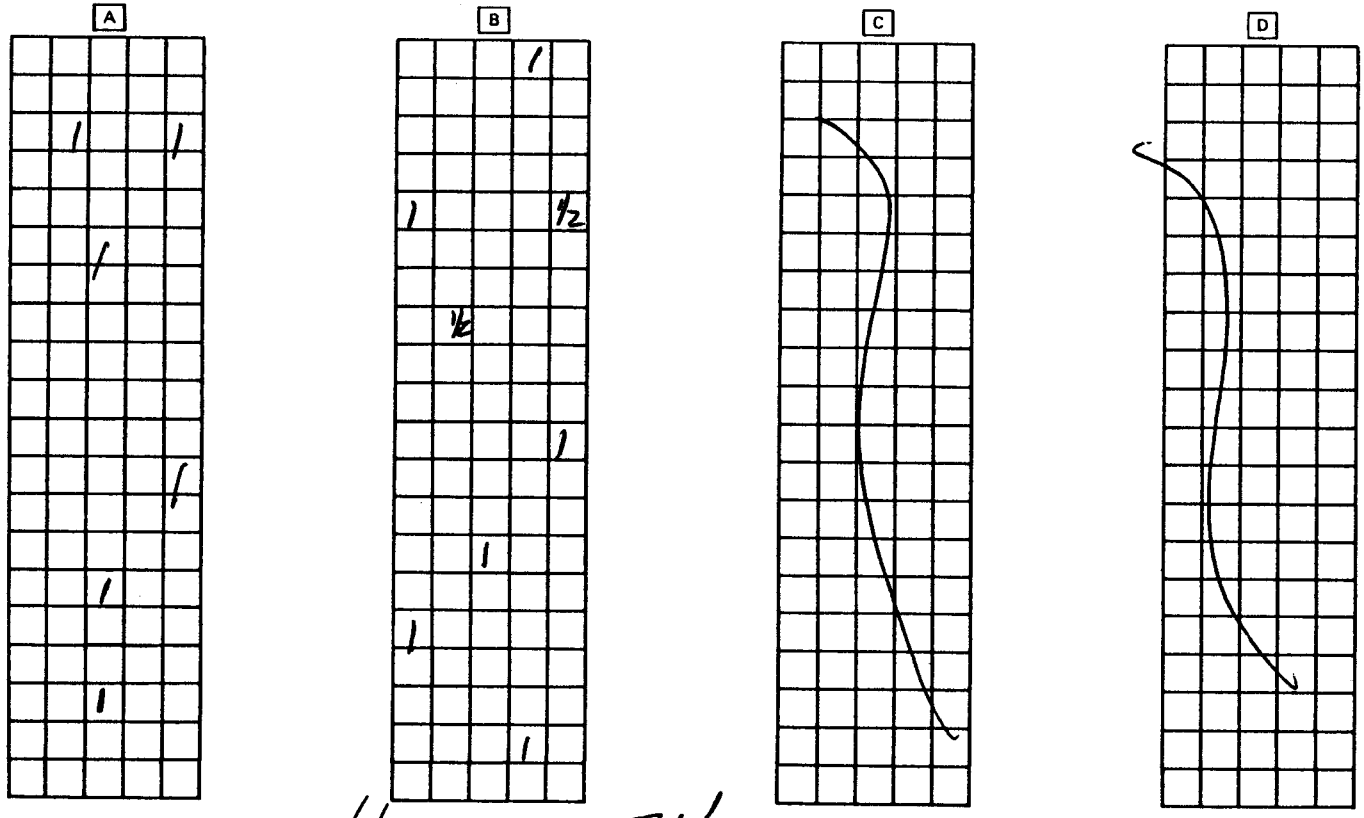
Field Area: (Check One)
- [x] .00785
- [ ] .00754
- [ ] .00724
- [ ] .00801
- [ ] .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- [x] 25 mm (385 sq mm)
- [ ] 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



FIELD TECH. — 4/1/93 DATE

ANALYST — 4-3-93 DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6.4.1.0.0.2.9.0.1.1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	109593	05	23193	2.5	2.5	2.5	0420	1050	390	975	11	100	1	10	.005
A	Notes: Area Sample Just Outside Decon														
B	109693	06	23120	2.5	2.5	2.5	0420	1050	390	975	4	100	1	3	<.005
B	Notes: Area Sample Critical Area 8001														
C	109793	07	23197	2.5	2.5	2.5	0420	1050	390	975	8.5	100	1	7.5	<.005
C	Notes: Area Sample N. of Decon														
D	109893	08	23192	2.5	2.5	2.5	0420	1050	390	975	5.5	100	1	4.5	<.005
D	Notes: Area Sample ON West Side of Decon														

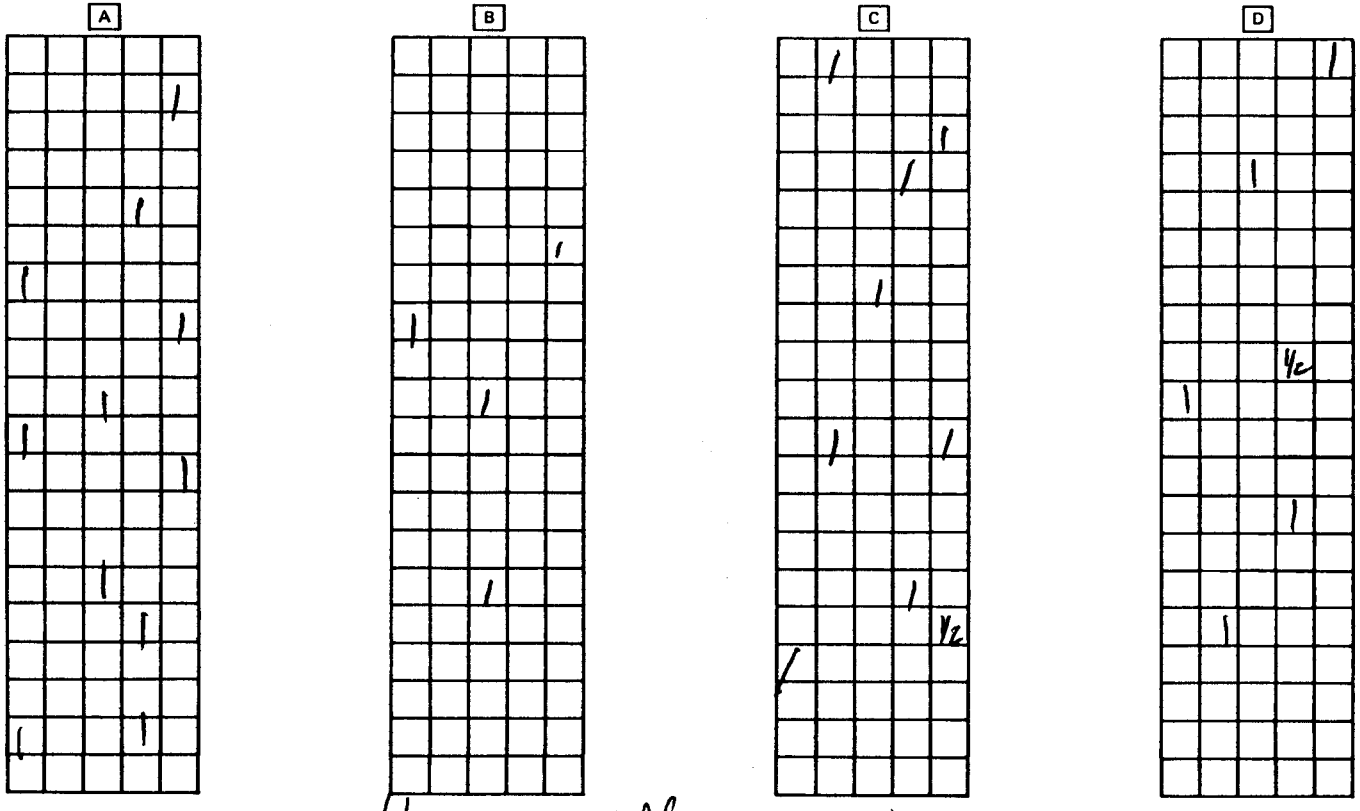
Field Area: (Check One)
- ☒ .00785
- ☐ .00754
- ☐ .00724
- ☐ .00801
- ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- ☒ 25 mm (385 sq mm)
- ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



[redacted] 4/3/93
FIELD TECH. DATE

4/3/93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6.4.1.0.2.9.0.1.1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Mean (Liters/Min)	Time (Military) On	Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	109993	09	23	~~2.5~~ 10	10	10	~~0728~~ 0755	0935	180	1000	5	100	1	4	<.005
A	Notes:	AREA Sample						West of Clean Rm 8104 Hall							
B	110093	10	23119	2.5	2.5	2.5	0728	0920	112	280	3.5	100	1	2.5	~~.030~~ .018
B	Notes:	AREA Sample INSIDE CONTAINMENT													
C	110193	11								→	1	100	1	1	—
C	Notes:	Blank													
D	110293	12								→	1	100	1	1	—
D	Notes:	Blank													

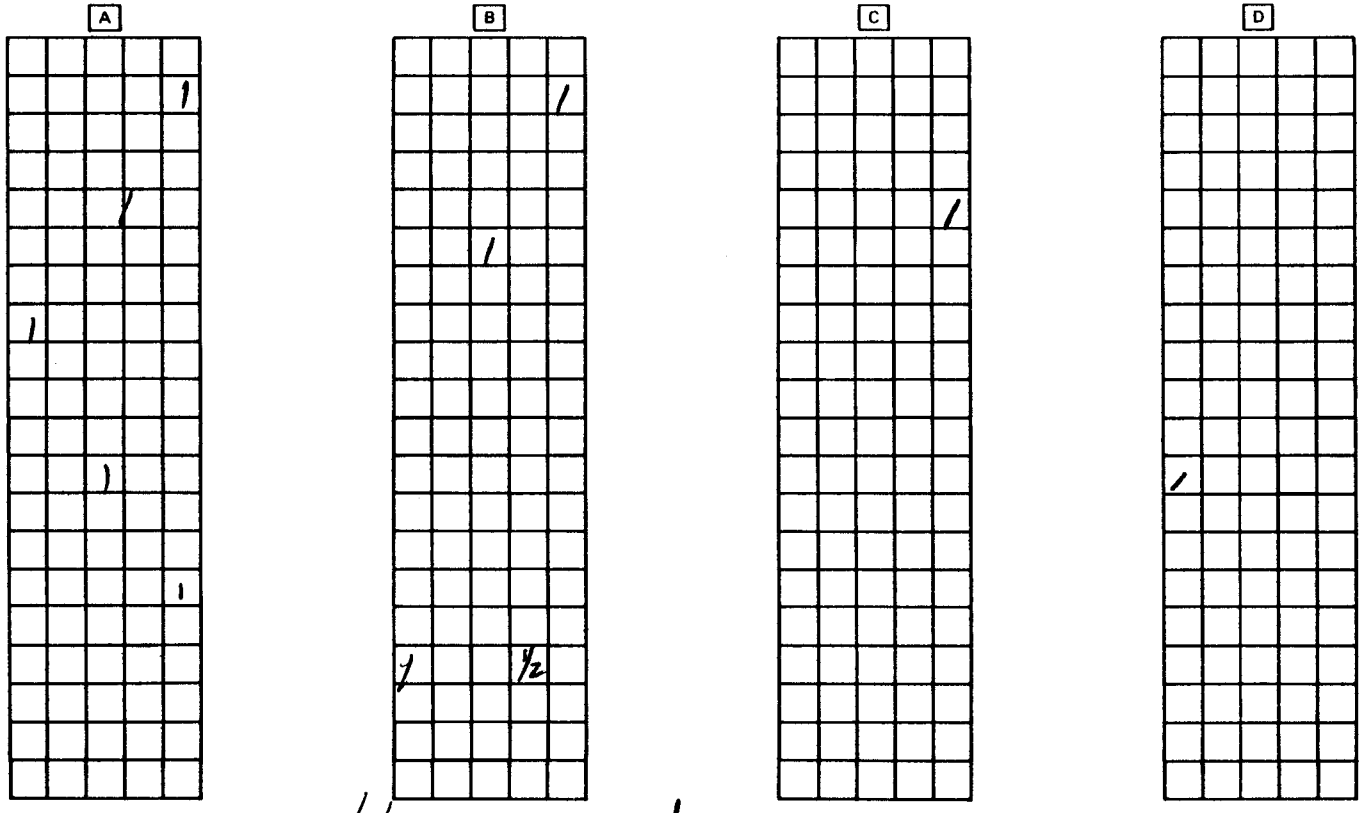
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



[signature] 4/3/93
FIELD TECH. DATE

[signature] 4-3-93
ANALYST DATE

Tracor Technology Resources | **Air Sample Sheet**

Project # 6,9,1,0,2,9,0,1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	110393	13	91-2	10	10	10	1120	1300	100	1000	8	100	1	7	<.005
A	Notes: Area Sample West of Decon Rm 8104 Hall														
B	110493	14	91-3	2.5	2.5	2.5	1100	1730	390	975	3	100	1	2	<.005
B	Notes: Area Sample Outside Decon														
C	110593	15	91-4	2.5	2.5	2.5	1100	1747	407	1018	4	100	1	3	<.005
C	Notes: Area Sample Critical Area 8001														
D	110693	16	91-5	2.5	2.5	2.5	1100	1730	390	975	6.5	100	1	5.5	<.005
D	Notes: Area Sample North of Decon														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

				1
1				
	1			1
			1/2	
				1
1				
		1		
			1/2	

B

				1
			1	
1				

C

				1
	1			
	1			
			1	

D

		1		
			1	
	1			
				.5
		1		
	1			1

FIELD TECH. 4/3/93 DATE

ANALYST 4/3/93 DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6,4,1,0,0,2,9,0,1,1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	110793	17	916	2.5	2.5	2.5	1100	1730	390	975	7	100	1	6	<.005
A	Notes: Area Sample West Side of Room														
B	~~110993~~														
B	Notes:														
C	~~110993~~														
C	Notes:														
D															
D	Notes:														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

		1		
			1	
1				1/2
	1			
1/2				
		1/2		1
			1/2	

B

C

D

FIELD TECH. — DATE 4-3-93

ANALYST — DATE 4/3/93

Tracor Technology Resources | **Air Sample Sheet**

Project # 6.4.10.0219.011.1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	110893	18	23	10	10.0	10.0	0115	0431	196	1960	3	100	1	2	≤.003
A	Notes:											Final Air			
B	110993	19	10	10	10.0	10.0	0115	0431	196	1960	2.5	100	1	1.5	≤.003
B	Notes:											Final Air			
C	111093	20	15	10	10.0	10.0	0115	0431	196	1960	3.5	100	1	2.5	≤.003
C	Notes:											Final Air			
D	111193	21	8	10	10.0	10.0	0115	0431	196	1960	4	100	1	3	≤.003
D	Notes:											Final Air			

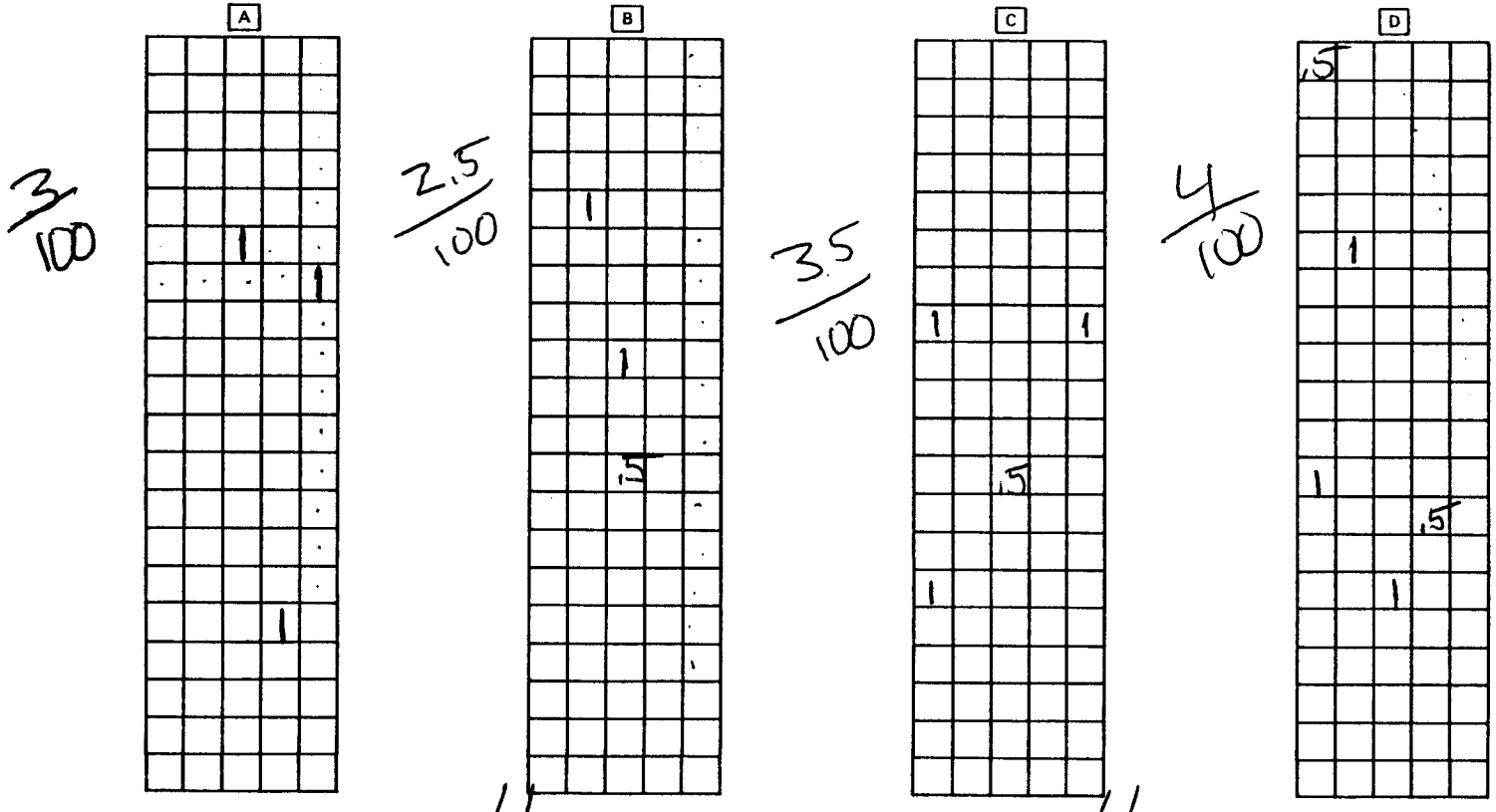
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



FIELD TECH. DATE 4/4/93

ANALYST DATE 4/4/93

Tracor Technology Resources — **Air Sample Sheet**

Project # 7.4.1.0.0.2.9.0.1.1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	143293	1	6	15.0	15.0	15.0	2050	2200	70	1050	6.5	100	.5	6	≤.005
A	Notes:														
B	143393	2	4	15.0	15.0	15.0	2050	2200	70	1050	7	100	.5	6.5	≤.005
B	Notes:														
C	143493	3									0	100			
C	Notes: B/ZNK														
D	143593	4									1	100			
D	Notes: B/ZNK														

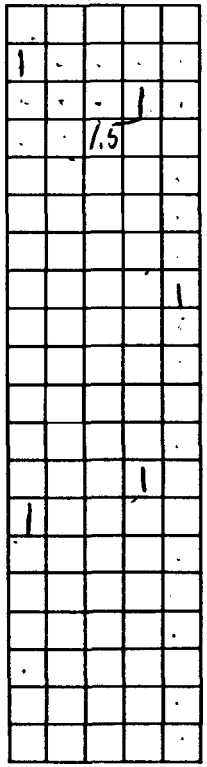
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

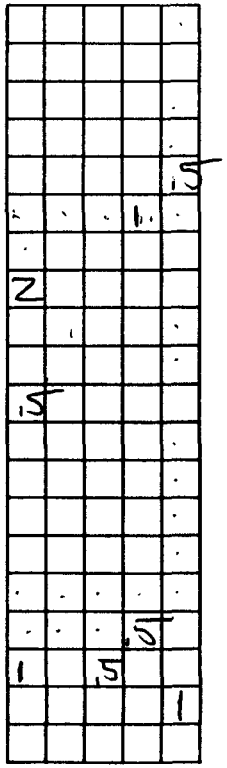
Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

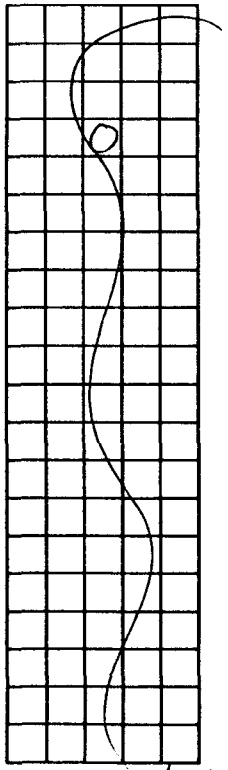
A: 6.5/100



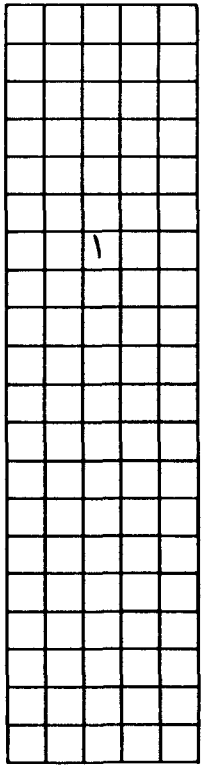
B: 7/100



C: 0/100



D: 1/100



FIELD TECH. — DATE 4/15/93

ANALYST — DATE 4/15/93

Tracor Technology Resources — **Air Sample Sheet**

Project # 7410.02901

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	143693	5	Q-7	2.5	2.5	2.5	0628	1258	390	975	7	100	1	6	≤.005
A	Notes: Top of Decon Clean Room Exit														
B	143793	6	R-7	2.5	2.5	2.5	0628	1258	390	975	4.5	100	1	3.5	≤.005
B	Notes: North of Decon 20 feet														
C	143893	7	Z-11	2.5	2.5	2.5	0628	1258	390	975	15.5	100	1	14.5	.007 *
C	Notes: East of Decon														
D	143993	8	6-50	2.5	2.5	2.5	0632	1258	390	975	2.5	100	1	1.5	≤.005
D	Notes: Stickwell # 3 Trap Exhust Bottom 8+9 floor														

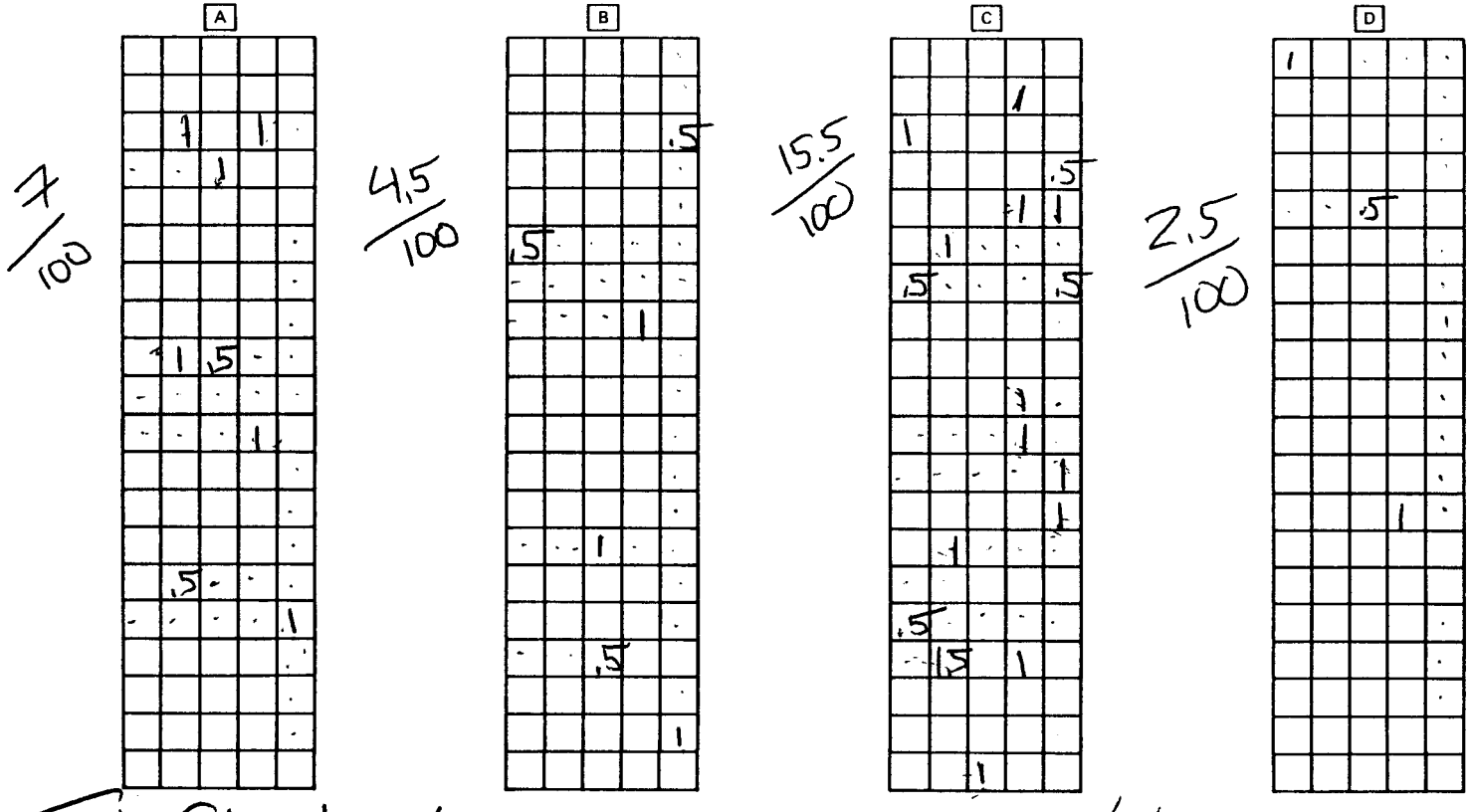
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



John Galanski 4/7/93
FIELD TECH. DATE

ANALYST DATE 4/7/93

Tracor Technology Resources — **Air Sample Sheet**

Project # 7 4 1 0 0 2 9 0 1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	144093	9	2311U	2.5	2.5	2.5	0632	1258	390	975	3	100	1	2	≤.005
A	Notes: Inside Office Space 80'B Central Area														
B	144193	10	7	2.5	2.5	2.5	1200	1520	200	500	6	100	1	7	<.010
B	Notes: Inside Containment														
C	144293	11	—	—	—	—	—	—	—	—	1	100			
C	Notes: Blank														
D	144393	12	—	—	—	—	—	—	—	—	1	100			
D	Notes: Blank														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

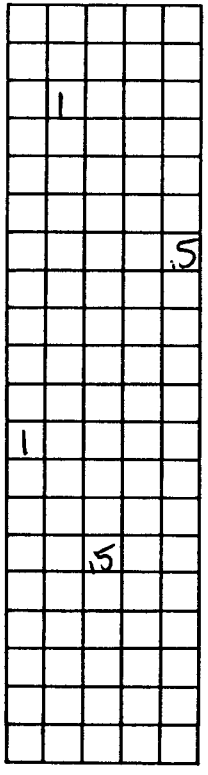
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

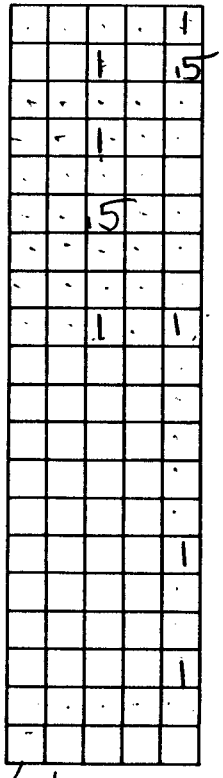
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

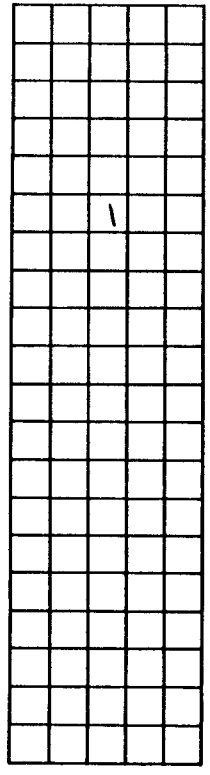
A: 3/100



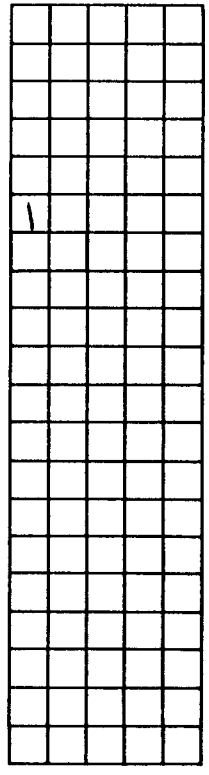
B: 6/100



C: 1/100



D: 1/100



FIELD TECH. DATE 4/17/93

ANALYST DATE 4/17/93

Tracor Technology Resources — **Air Sample Sheet**

Project # 7,4,1,0,0,2,9,0,1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	144493	13	Q7	2.5	2.5	2.5	1258	1930	392	980	8.5	100	~~24~~ 5	~~19~~ 7.5	<.005
A	Notes: Top of Decon Clean Room Exit														
B	144593	14	D9	2.5	2.5	2.5	1258	1930	392	980	3.5	100	1	2.5	<.005
B	Notes: North of Decon 20 feet														
C	144693	15	Z-11	2.5	2.5	2.5	1258	1930	392	980	9	100	1	8	<.005
C	Notes: East of Decon														
D	144793	16	G-50	2.5	2.5	2.5	1258	1935	397	992.5	3	100	1	2	<.005
D	Notes: Stairwell #3 Trap Exaust Between 8th & 9th floor														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

			1	
1				
1				
			1	
1				
			1	
	1			1
				.5

B

1				
			1	
	.5			
				1

C

				1
1				
		1		
	1			
1			1	
				1
		1		
			1	

D

				1
		1		
		1		

FIELD TECH. 4/17/93 DATE

ANALYST 4/21/93 DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 7,4,1,0,0,2,9,0,1,

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	144693	17	2311U	2.5	2.5	2.5	1255	1930	392	980	1	100	ϕ	0	<.005
A	Notes: Inside office Space 8013 Central Baseline														
B															
B	Notes:														
C															
C	Notes:														
D															
D	Notes:														

Field Area: (Check One)
- [x] .00785
- [ ] .00754
- [ ] .00724
- [ ] .00801
- [ ] .00817

Filter Size
- [x] 25 mm (385 sq mm)
- [ ] 37 mm (855 sq mm)

Calculations:

$$\text{Mean Flow} = \frac{\text{Pre} + \text{Post}}{2}$$

Total Time = Off-On

Volume = Total Time x Mean Flow

$$\text{Net Count} = \left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right) - \text{Blank Count}$$

$$\text{Fibers Per cc} = \frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$$

A

			1	

B

C

D

FIELD TECH. — DATE 4/17/93

ANALYST — DATE 4/17/93

Tracor Technology Resources — **Air Sample Sheet**

Project # 7,4,1,0,0,2,9,0,1,

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	144983	18	2	10.0	10.0	10.0	0755	0955	120	1200	1.5	100	.5	1	<.004
A	Notes: Final Air														
B	145093	19	3	10.0	10.0	10.0	0755	0955	120	1200	5	100	.5	4.5	<.004
B	Notes: Final Air														
C	145183	20	7	10.0	10.0	10.0	0800	1000	120	1200	3	100	.5	2.5	<.004
C	Notes: Final Air														
D	145293	21	1	10.0	10.0	10.0	0800	1000	120	1200	4	100	.5	3.5	<.004
D	Notes: Final Air														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

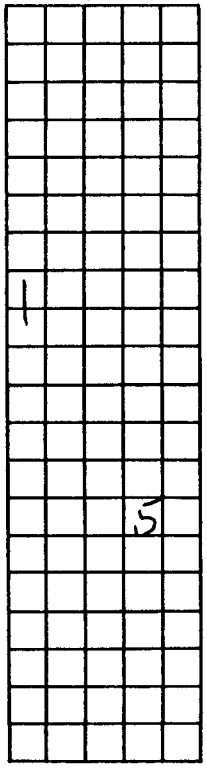
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

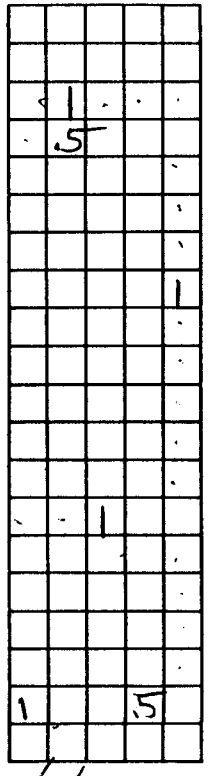
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

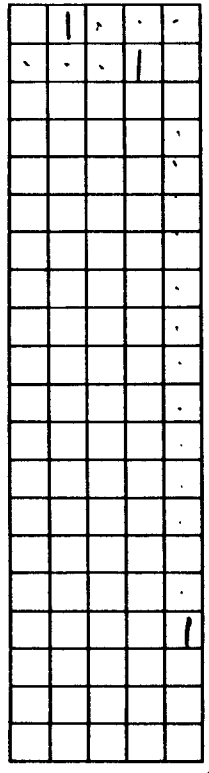
A: $\frac{1.5}{100}$



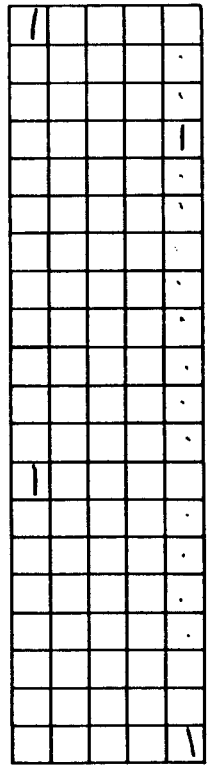
B: $\frac{5}{100}$



C: $\frac{3}{100}$



D: $\frac{4}{100}$



FIELD TECH. DATE 4/18/93 ANALYST DATE 4/18/93

Tracor Technology Resources — **Air Sample Sheet**

Project # 7,4,1 10,0,2 19,0 1 1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	145393	22									1	100			
A	Notes: BLANK														
B	145493	23									0	100			
B	Notes: BLANK														
C															
C	Notes:														
D															
D	Notes:														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

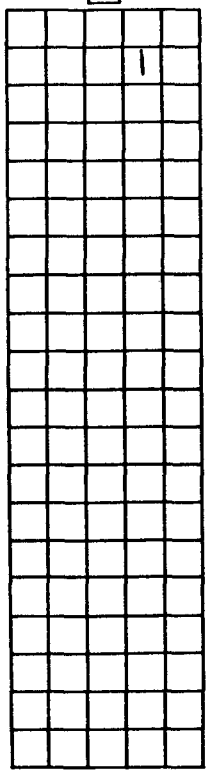
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A



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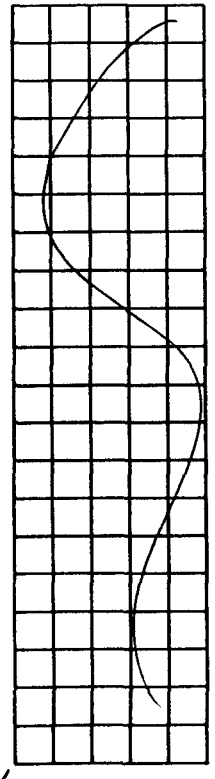
B



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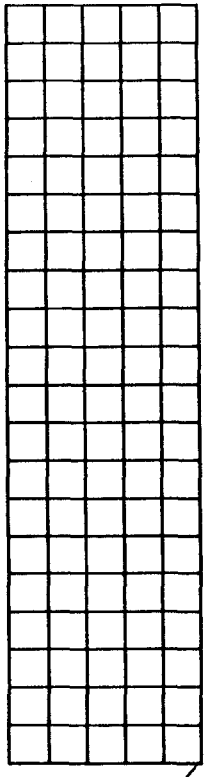
C



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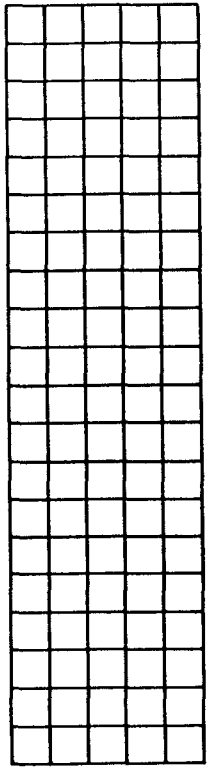


FIELD TECH. — DATE 4/15/93

ANALYST — DATE 4/15/93

94-9[illegible]
Reviewed/Mailed
SEP 1 1994 T.S./WPXE

TRACOR

Tracor Technology Resources, Inc.
1601 Research Boulevard
Rockville, MD 20850-3173
301 251-4911

DC010522
CAHOFILE: 940509

Project No.: 6486-012A
Serial No.: JG-94-041
ACT No.: P05554577

May 9, 1994

Ms. Normajean Eleazer
GSA, NCR, WPX, Room 2036
7th and D Streets, SW
Washington, DC 20407

Subject: PROGRESS REPORT XI - NEW EXECUTIVE OFFICE BUILDING

Dear Ms. Eleazer:

This is a progress report on the asbestos abatement project that occurred in the New Executive Office Building on the 4th and 7th floors on 3/11-13, 3/18-20, 4/8-10, 4/23-25, 4/30 and 5/1, 1994.

Personnel from Tracor Technology Resources, Inc. (TTR) monitored Retro Environmental, a licensed asbestos abatement contractor, removing approximately eight hundred and ten (810) square inches of asbestos containing deck insulation, utilizing full containment procedures.

The Industrial Hygiene Consultant's responsibilities include conducting inspections of the worksite, assessing work practices, and collecting air samples. A total of seventy-nine (79) air samples were collected. This project consisted of five (5) start up, fifteen (15) daily, three (3) CIH and five (5) final inspection checklist reports.

The TTR Industrial Hygienist conducted daily air monitoring to determine work area fiber concentrations, and fiber levels outside the work area. In addition, the Industrial Hygienist conducted final inspections and clearance air testing. All final clearance air samples were below the required EPA level of 0.01 fibers per cubic centimeter (0.01 f/cc).

Air sample collection measurement and analysis followed the NIOSH 7400 Method A Rules. Air sampling pumps were calibrated both before and after collecting each sample set. Area samples were taken at ≥2.5 liters per minute, and all clearance samples were taken at 10.0 liters per minute.

On April 9, 1994, outside samples #2 & 3 were elevated due to removal of ceiling tile. The area was fine cleaned and final air samples collected were analyzed to be ≤0.01 fibers per cubic centimeter (0.01 f/cc).

Please find enclosed air sampling data, daily and final checklists, and all daily log notes.

If you should have any questions or need additional information, please call. We can be reached at (301) 251-4921.

Sincerely,

TRACOR TECHNOLOGY RESOURCES, INC.

Prepared by:

John Golombieski III
Industrial Hygienist

Technical Review:

Joseph D. Eichenlaub
Manager, Environmental and
Industrial Hygiene Services

JG:srp

Enclosures

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 4 Floor Computer Room Date: 4/9-10/94

Removal Contractor: RETCO Time Started: 1845

Monitoring Contractor: TTL Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier		✓
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	UNDER	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

When arrived on site several breaches in the containment were found but taken care of immediately

Report Prepared By: [illegible] Date: 4/9-15/94

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 6486-012

Location: 4th Floor Carpet Room Date: 4/7-10/94

Removal Contractor: Retro Time Inspected: 2225

Monitoring Contractor: TTR Time Completed: _____

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	✓	
	d. Ventilation Equipment.	✓	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	✓	
	g. Ductwork.	✓	
	h. Registers	✓	
	i. Lights.		

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	13	14	15	16	
Location:	N	S	E	W	
Volume (Liters):	1200	1200	1200	1200	
Flow rate: (Liters/Minute)	10.0	10.0	10.0	10.0	
Fibers/Filter:	7.5	2	1.5	3	
Fibers/Cubic Cm:	<.004	<.004	<.004	<.004	

ANALYST ANALYZING SAMPLES: Golan Sieski DATE: 4/6/94

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: _____ Date: _____

REPORT REVIEWED BY: _____ DATE: _____

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

05/06/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
6486012	101894	1	04/24/94	INS	VOIDED
6486012	101994	2	04/24/94	OUT	< 0.005
6486012	102094	3	04/24/94	OUT	< 0.005
6486012	102194	4	04/24/94	OUT	< 0.005
6486012	102294	5	04/24/94	OUT	< 0.005
6486012	102394	6	04/24/94	OUT	BLANK= 0.00
6486012	102494	7	04/24/94	OUT	BLANK= 1.00
6486012	102594	8	04/24/94	FIN	< 0.004
6486012	102694	9	04/24/94	FIN	< 0.004
6486012	102794	10	04/24/94	FIN	< 0.004
6486012	102894	11	04/24/94	FIN	< 0.004
6486012	102994	12	04/24/94	FIN	< 0.004

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL E. EDWARDS
LABORATORY MANAGER

Tracor Technology Resources — **Air Sample Sheet**

Project # 6486.012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	101894	01	15	2.5	—	—	0526	—	—	—				—	Fr. [illegible]
A	Notes: Inside 7th floor E Wa														
B	101994	02	10	2.5	2.5	2.5	0531	1226	415	1038	1	100	.5	.5	<0.001
B	Notes: Office 7026 at critical barrier														
C	102094	03	31	2.5	2.5	2.5	0534	1225	411	1028	3	100	.5	2.5	0.001
C	Notes: at AFD exhaust														
D	102194	04	16	2.5	2.5	2.5	0540	1216	396	990	7	100	.5	6.5	0.003
D	Notes: 7th floor elevator lobby														

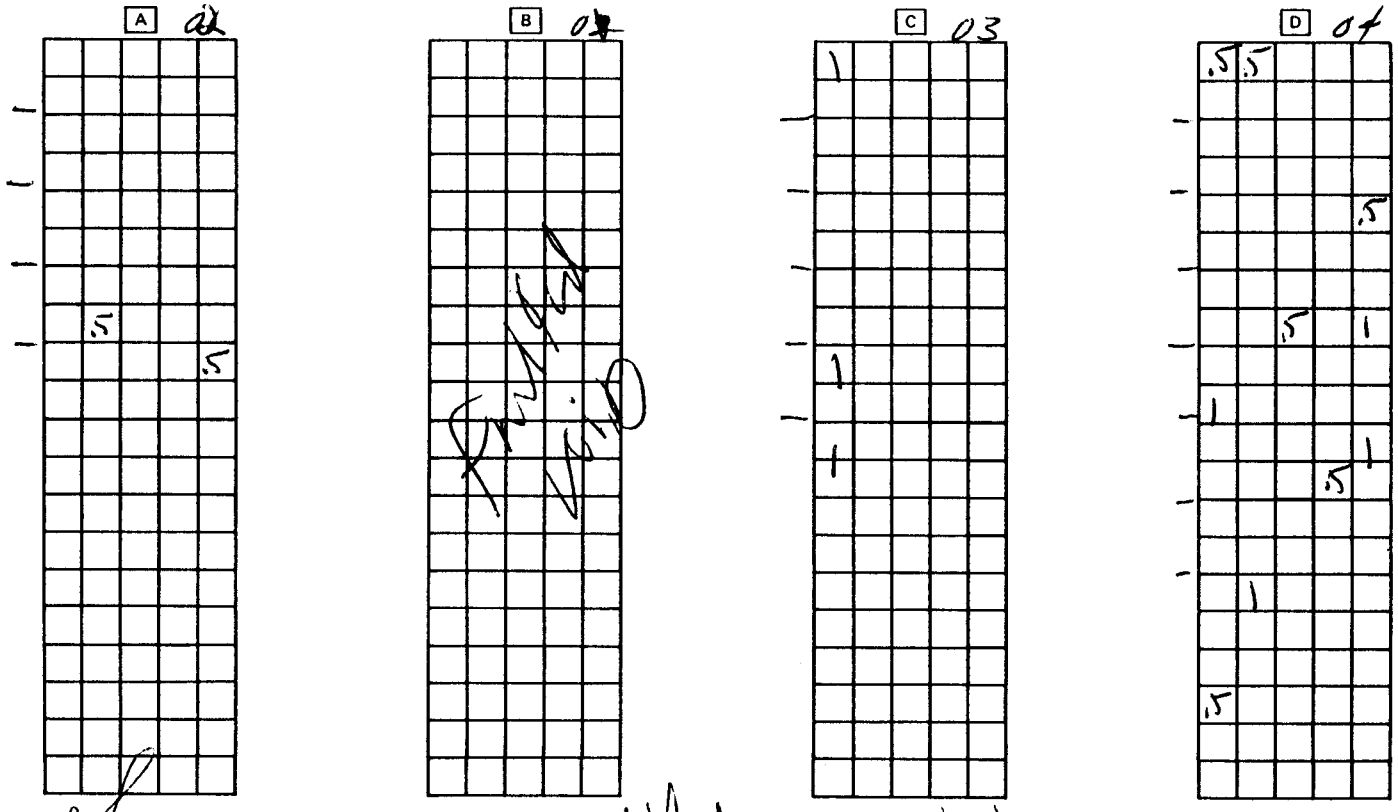
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



[illegible] 4.23.94
FIELD TECH. DATE

[illegible] 4/27/94
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6486-012

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	102294	05	93	2.5	2.5	2.5	0731	1343	372	930	6.5	100	.5	6	0.003
A	Notes: At decon														
B	102394	06	—	—	—	—	—	—	—	—	0	100	0	—	—
B	Notes: Blank														
C	102494	07	—	—	—	—	—	—	—	—	1	100	1	—	—
C	Notes: Blank														
D															
D	Notes:														

Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

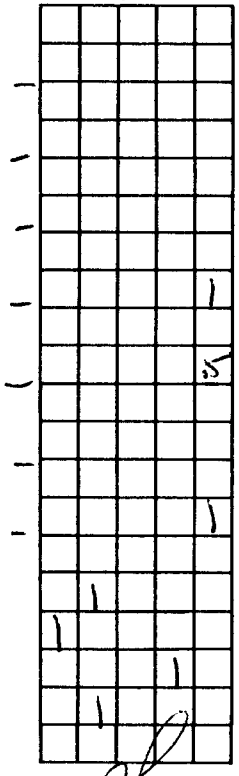
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A 05



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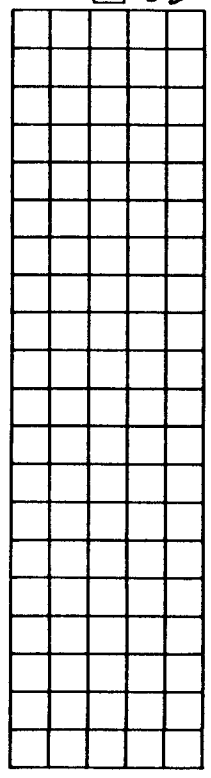

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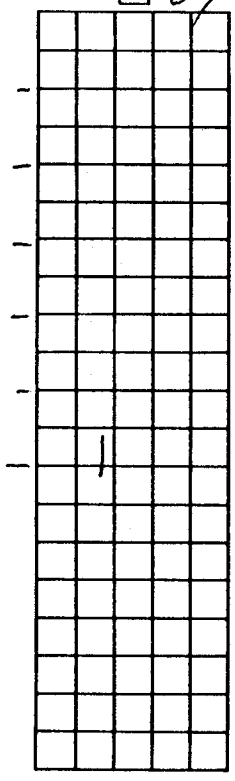

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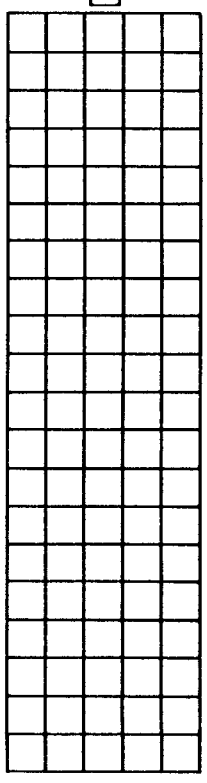


B Stella 7 23 94
FIELD TECH. DATE

ANALYST DATE

Tracer Technology Resources — **Air Sample Sheet**

Project # 6486.019

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	102594	08	436	10	10	10	1245	0245	120	1200	0	100	0	0	0.004
A	Notes: Final: inside WA														
B	102694	09	1209	10	10	10	1247	0247	120	1200	2.5	100	0	2.5	0.004
B	Notes: Final: inside WA														
C	102794	10	37	10	10	10	1249	0249	120	1200	2	100	0	2	0.004
C	Notes: Final: inside WA														
D	102894	11	58	10	10	10	1251	0251	120	1200	1	100	0	1	0.004
D	Notes: Final: inside WA														

Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

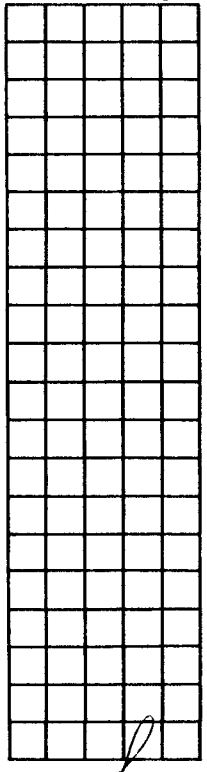
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A 08



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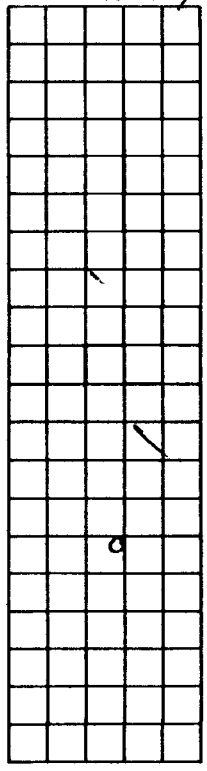

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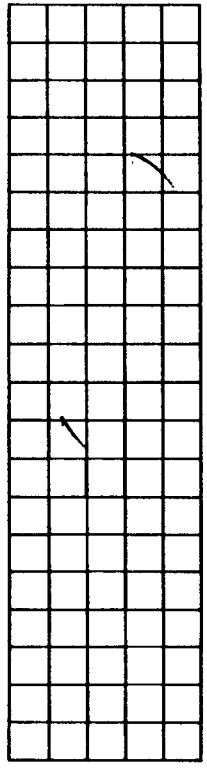
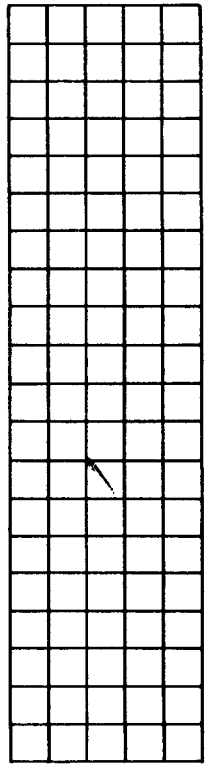


D 11



B Nelle 4.24.94
FIELD TECH. DATE

B Nelle 4.24.94
ANALYST DATE

Tracer Technology Resources — **Air Sample Sheet**

Project # 6486.012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	102994	12	5361	10	10	10	1253	0253	120	1200	2	100	0	2	0.004
A	Notes: Final · inside Wa														
B															
B	Notes:														
C															
C	Notes:														
D															
D	Notes:														

Field Area: (Check One)
- ☒ .00785
- ☐ .00754
- ☐ .00724
- ☐ .00801
- ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- ☒ 25 mm (385 sq mm)
- ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A 12

B

C

D

B Wells 4.24.94
FIELD TECH. DATE

B Wells 4.24.94
ANALYST DATE

Page # 1

LOG SHEET

Date: 4.22. 4.23.94

Project Number: 6486-012

Industrial Hygienist: B Hells

Abatement Contractor/Supervisor: Retro Enviro / B. Gorecki

Time	Remarks
1900	IR on site, Retro on site. Containment will be on the eastside of 7th floor
2000	Retro prepping area
2100	
2200	
2300	
2400	
0100	
0200	
0300	
0400	
0500	IR inspected ACM and gave Retro permission to start work
0540	Electricians going in to take out lites IR has placed area sample pumps
0550	Pipefitters on site
0700	B Hemler on site to relieve B Hells

Page # 1

LOG SHEET

Date: 4/23/94

Project Number: 6486-012

Industrial Hygienist: Barry Hemler

Abatement Contractor/Supervisor: Retro / BK

Time	Remarks
0700	On site review status
0715-0725	Barrier inspection, are good shape one exhaust tube split, fixed it neg pressure -0.048.
0730	Retro finish taking carpet tile out. Start up heavy pump. Tailoring out equipment now, sprinkler workers getting ready to start
740	Retro workers out. Sprinkler crew taking in equip. Power been elec. existing barrier all fine
810-8:20	Safety meeting: Lock procedures, sign-in, standing on firm. hearing, street clothes. 2 workers hard hats, one in goggles, which one is trimming, others setting have of beard
8:30-8:45	Workers entering barrier
9:00	All work under way neg pressure -0.040
845	Inspection mech room/comm room only for running of one hook. Water/floor poly flap at door just like out stairwells. Will turn on pump when work begins
955 1010	Inspect one corner down all else fine. neg pressure -0.040
1115	neg pressure -0.048 all fine work continues
1120	Start taking light out.
1200	continue removing lights
1300	All fine
1445	Pulled last sample got ready to analyze
1430	Samples all good <0.01
1435-1445	inspection - all fine 2 corners loose fixed them neg pressure -0.040
1450	Elec bringing out dirty conduit cant to build in.

Page # 2

LOG SHEET

Date: 4/23/94

Project Number: 6486-012

Industrial Hygienist: B Hemler

Abatement Contractor/Supervisor: Retro/Bob

Time	Remarks
1530	Electrical work complete tailing equipment out completed
	with fine
1700	Sprinkler work continues with fine, neg pressure -0.046"
1715	Retro workers arrive to continue fire replacement
1730	Retro begins to take CT into barrier with fine, sprinkler
	work nears completion
1800	CT replacement continues with fine
1900	End of shift
1846	B. Wells on site to relieve B. Hemler
	Pipefitters about to start test
	Neg air up to >.004 in. Enviro had some
	AFDs shut down. They will start them
	back up.
1900	Retro starting cleanup
2000	Pressure test on pipes completed OK. Negair >.028
2100	Cleanup continues
2200	
2300	
2400	

Page # 1

LOG SHEET

Date: 4.24.94

Project Number: 6486-012

Industrial Hygienist: B Hello

Abatement Contractor/Supervisor: Retro Env / B. Gorecki

Time	Remarks
0000	Visual inspt of area completed &c.
	Retro is encapsulating
1225	Finished encapsulating
1240	IIR set finals
0250	IIR picked up finals
0317	All finals were not less than 0.01 f/cc
	and IIR gave Retro permission to remove
	the NA and return the area to use

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB Project: 6486-012

Location: 7th floor Date: 4.23.94

Removal Contractor: Retro Enviro Time Inspected: 0530

Monitoring Contractor: Tracor Time Work Started: 0540

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	✓	
	f. Negative pressure > .02"	> .028	
2. Signage	a. Caution Signs at vestibule entry.	na	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wettad Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: B Wells Date: 4-23-94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 7th floor Date: 4.22.94 - 4.23.94

Removal Contractor: Retro Enviro Time Started: 1900

Monitoring Contractor: Tracor Time Stopped: 0700

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	na	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	>.028	
2. Signage	a. Caution Signs at vestibule entry.	na	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Matarial Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp HEPA ✓ Face PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Stells Date: 4.22.94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 7th Floor Date: 4/23/94

Removal Contractor: Retro Time Started: 0700

Monitoring Contractor: Tracor Time Stopped: 1900

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier		yes
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Matarial Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Barrier came loose at room corners was repaired when found

Report Prepared By: [signature] Date: 4/23/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-~~019~~ 012

Location: 7th floor Date: 4.24.94

Removal Contractor: Retro Env Time Started: 2400

Monitoring Contractor: Tracor Time Stopped: 0330

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	na	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	na	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Matarial Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ½ face PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Sells Date: 4.24.94

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 6486-012

Location: 7th floor Date: 4.24.94

Removal Contractor: Retro Env Time Inspected: 0000

Monitoring Contractor: Tracor Time Completed: 0010

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	✓	
	d. Ventilation Equipment.	✓	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	✓	
	g. Ductwork.	✓	
	h. Registers	✓	
	i. Lights.	✓	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	08 ~~01~~ BW	09 ~~02~~ BW	10 ~~03~~ BW	11 ~~04~~ BW	12
Location:	inside Wa	inside Wa	inside Wa	inside Wa	inside Wa
Volume (Liters):	1200	1200	1200	1200	1200
Flow rate: (Liters/Minute)	10	10	10	10	10
Fibers/Filter:	0	2.5	2	1	2
Fibers/Cubic Cm:	0.004	0.004	0.004	0.004	0.004

ANALYST ANALYZING SAMPLES: B Wells DATE: 4.24.94

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Wells Date: 4.24.94

REPORT REVIEWED BY: _____ DATE: _____

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

05/03/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
6486012	98794	1	04/30/94	OUT	< 0.004
6486012	98894	2	04/30/94	OUT	< 0.007
6486012	98994	3	04/30/94	OUT	< 0.005
6486012	99094	4	04/30/94	INS	0.050
6486012	99194	5	04/30/94	OUT	< 0.004
6486012	99294	6	04/30/94	BLA	BLANK= 0.00
6486012	99394	7	04/30/94	BLA	BLANK= 0.00
6486012	99494	8	04/30/94	INS	< 0.004
6486012	99594	9	04/30/94	OUT	< 0.004
6486012	99694	10	04/30/94	OUT	< 0.004
6486012	99794	11	04/30/94	OUT	< 0.004
6486012	99894	12	04/30/94	OUT	< 0.004
6486012	99994	13	04/30/94	BLA	BLANK= 0.00
6486012	100094	14	04/30/94	BLA	BLANK= 0.00
6486012	100194	15	04/30/94	FIN	< 0.004
6486012	100294	16	04/30/94	FIN	< 0.004
6486012	100394	17	04/30/94	FIN	< 0.004

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL L. EDWARDS
LABORATORY MANAGER

Tracor Technology Resources — **Air Sample Sheet**

Project # 6486-012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	98794	01	16	2.5	2.5	2.5	0543	1259	436	1090	2	100	0	2	0.001
A	Notes: In office 7214 down Stair #2														
B	98894	02	31	2.5	2.5	2.5	0755	1253	298	745	3.5	100	0	3.5	0.002
B	Notes: At decon														
C	98994	03	93	2.5	2.5	2.5	0544	1258	434	1085	2	100	0	2	0.001
C	Notes: In hall at barrier by 7210 - stair #2														
D	99094	04	10	2.5	2.5	2.5	0527	1250	443	1108	113.5	100	0	113.5	0.05
D	Notes: Inside WA														

Field Area: (Check One)
- ☒ .00785
- ☐ .00754
- ☐ .00724
- ☐ .00801
- ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- ☒ 25 mm (385 sq mm)
- ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A 01

1				
1				

B 02

		.5		
		1		
	.5			
				.5
		1		

C 03

			1	
		1		

D 04

4	—	1.5	1	1	.5
6.5	1	3	—	1	1.5
6	1.5	2	-	1	1.5
5	—	1	.5	2	1.5
6	1.5	1.5	1	1	1
4	1.5	1	1	.5	—
5.5	.5	1	1	1.5	1.5
4	—	1	1	—	2
5	1.5	1.5	1	.5	.5
5.5	1.5	1	1	1.5	.5
7.5	1	2	1.5	1	2
6.5	1.5	1.5	1	1.5	1
6	1	1.5	1.5	1	1
4	1	.5	—	1	1.5
7	1.5	1	1.5	2	1
7.5	1	1	1.5	2	2
5.5	1.5	1.5	.5	1	1
6	1	1	1.5	1	1.5
6.5	2	2	1	1	.5
5.5	—	1	1	2	1.5

B Wells 4.30.94
FIELD TECH. DATE

B Lond 4/30/94
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6486.012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	99194	05	15	2.5	2.5	2.5	0540	1302	442	1105	2	100	0	2	0.001
A	Notes: at AFD exhaust stairwell #1														
B	99294	06	—	—	—	—	—	—	—	—	0	100	—	—	—
B	Notes: Blank														
C	99394	07	—	—	—	—	—	—	—	—	0	100	—	—	—
C	Notes: Blank														
D	99494	08	89	2.5	2.5	2.5	1252	2010	446	1115	7.5	100	0	7.5	<0.01
D	Notes: Inside work area														

Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

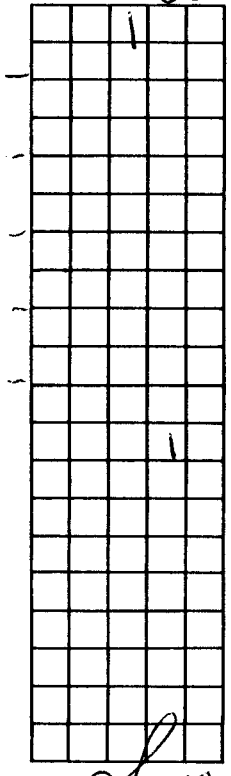
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A 05



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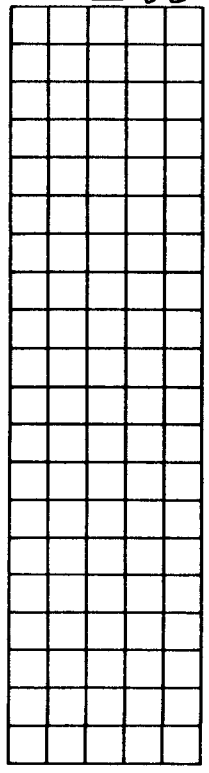

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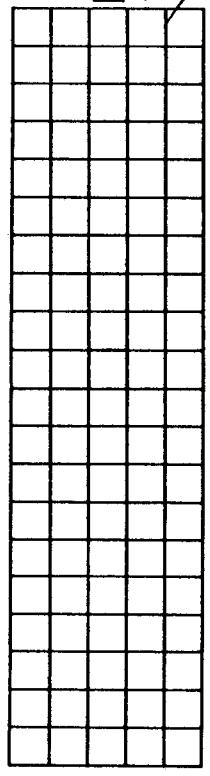

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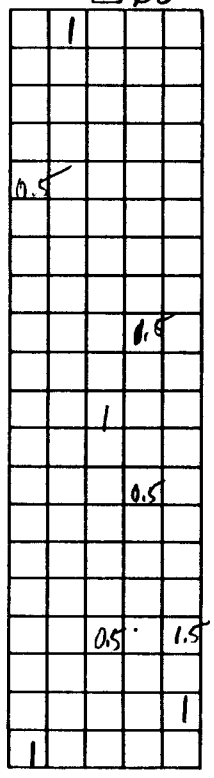


B Stalls 4.30.94
FIELD TECH. DATE

B Henderson 4/30/94
ANALYST DATE

SED

Tracor Technology Resources — **Air Sample Sheet**

Project # 6486 012

1601 Research Boulevard
Rockville, Maryland 20850

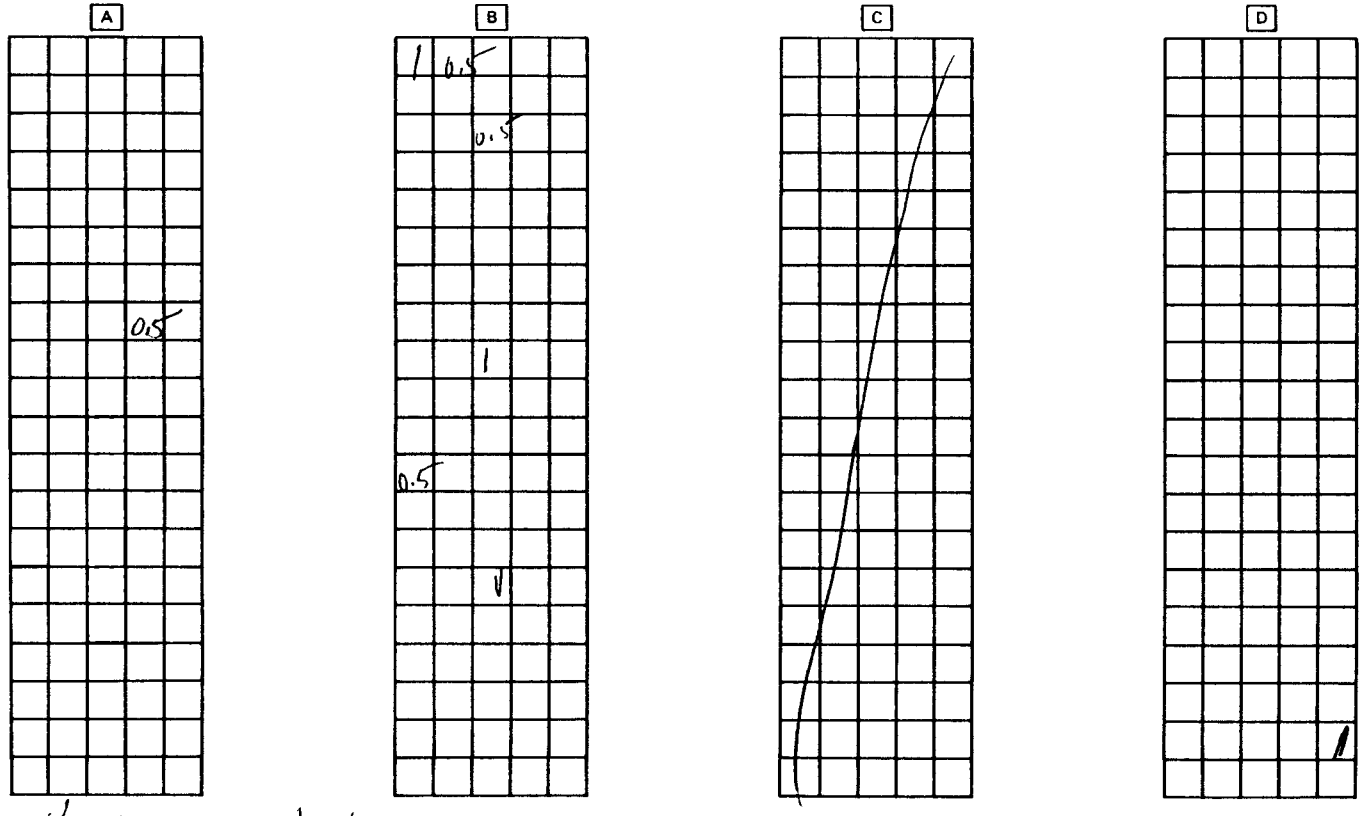
	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	99594	09	34	2.5	2.5	2.5	1259	2023	444	1110	0.5	100	0	0.5	<0.01
A	Notes: area – office 7214														
B	99644	10	2	2.5	2.5	2.5	1253	2015	442	1105	4.5	100	0	4.5	<0.01
B	Notes: area – outside decon														
C	99794	11	41	2.5	2.5	2.5	1258	2024	446	1115	0	100	0	0	<0.01
C	Notes: area – outside Rm 7210														
D	99894	12	83	2.5	2.5	2.5	1302	2027	445	1112.5	1	100	0	1	<0.01
D	Notes: area – exhaust stairway #1														

Field Area: (Check One) ☐ .00785 ☐ .00801 ☐ .00754 ☐ .00817 ☐ .00724

Calculations: Mean Flow = $\frac{\text{Pre + Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count Fibers Per cc = $\frac{\text{(Net Count/100) x Filter Area}}{\text{Field Area x Volume x 1000}}$



[signature] 4/30/94
FIELD TECH. DATE

DUNN [signature]
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6486-012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	99994	13										100	0		—
A	Notes: BLANK														
B	100094	14										100	0		—
B	Notes: BLANK														
C	100194	15	9591	10	10	10	0145	0345	120	1200	4	100	0	4	<0.01
C	Notes: FINAL: WA														
D	100294	16	5631	10	10	10	0145	0345	120	1200	2	100	0	2	<0.01
D	Notes: FINAL: WA														

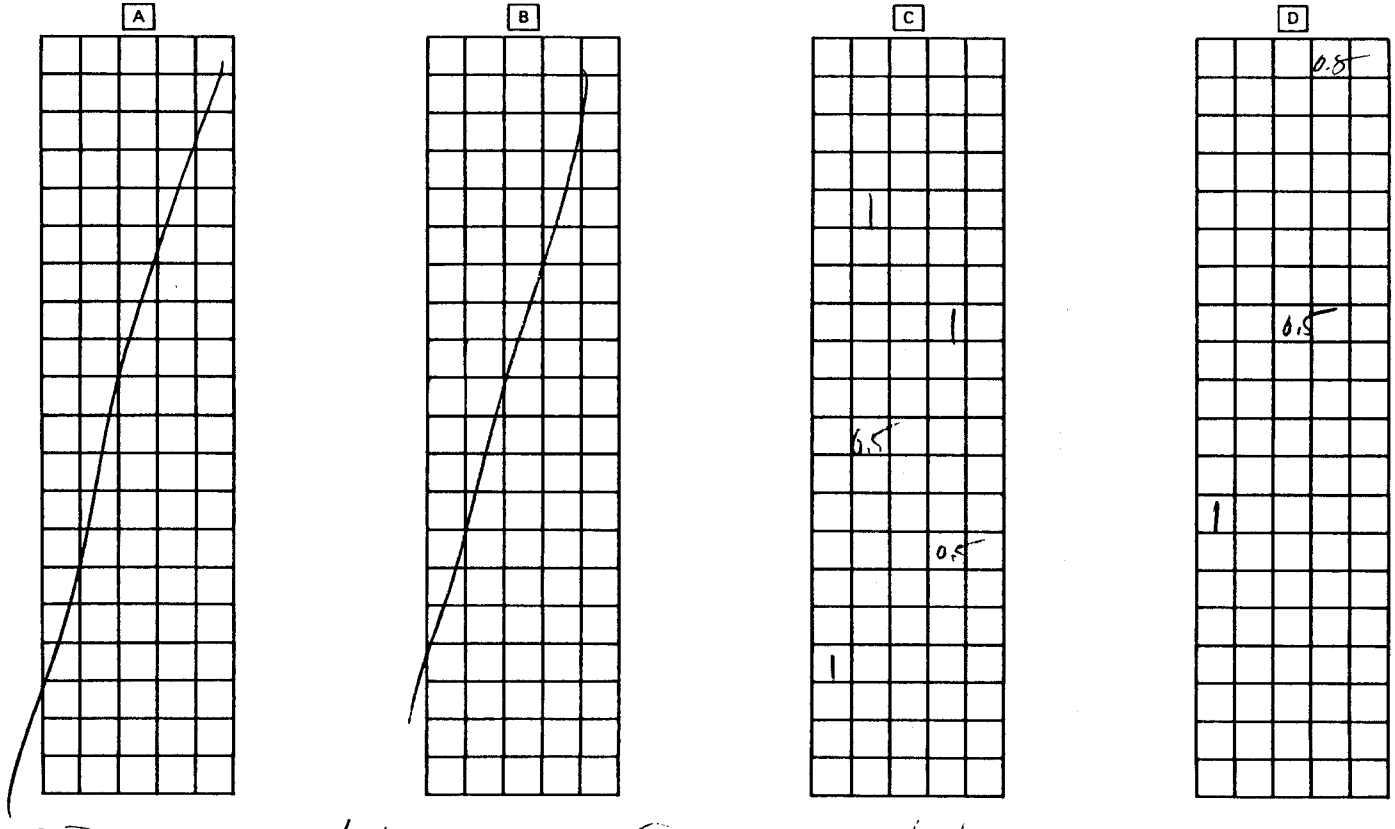
Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



S. DUNN 4/30/90
FIELD TECH. DATE

S. DUNN 4/30/90
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6,4,8,6 - Ø,1,2

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Count Data: Fibers Per cc
A	1ØØ394	17	7941	1Ø	1Ø	1Ø	Ø145	Ø345	12Ø	12ØØ	Ø	1ØØ	Ø	Ø	<ØØ1
A	Notes: FINAL : WA														
B															
B	Notes:														
C															
C	Notes:														
D															
D	Notes:														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

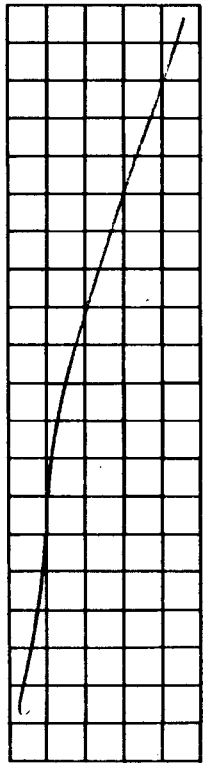
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

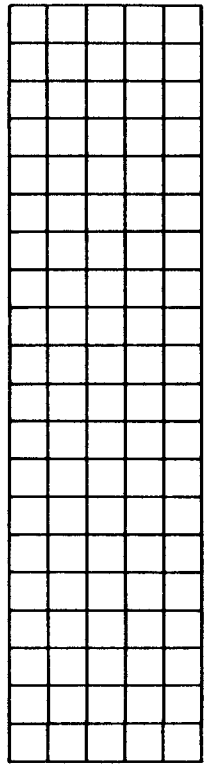
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A



B



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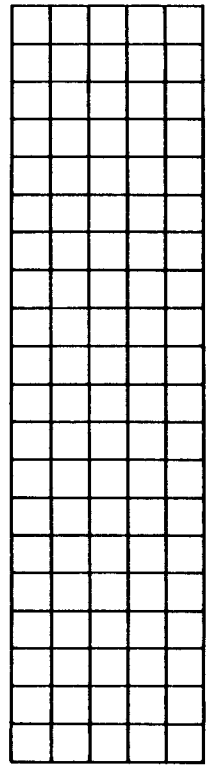
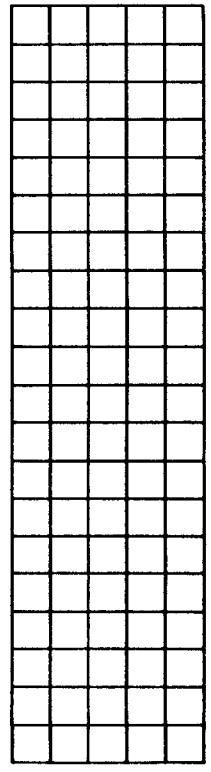


D



DUNN 5/2/[illegible]
FIELD TECH. DATE

[illegible] 5/[illegible]
ANALYST DATE

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB Project: 6486-012

Location: 7th floor west Date: 4-30-94

Removal Contractor: Retro Enviro Time Inspected: 0520

Monitoring Contractor: Tracor Time Work Started: 0530

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	✓	
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	no	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp HEPA ~~1/2 face~~ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: B Hills Date: 4.30.94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 7th floor west Date: 4-30-94

Removal Contractor: Retro Enviro Time Started: 1900-4.29.94

Monitoring Contractor: Tracor Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	na	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	na	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA To face PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Prepping of the area started on 4-29-94

Report Prepared By: B Wells Date: 4-30-94

CIH Inspection

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6446 012

Location: 7th Floor Date: 4/30/94

Removal Contractor: ReTro Time Started: —

Monitoring Contractor: Trator Time Stopped: 3:30

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	y	
	b. Decontamination Curtains	y	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	y	
	e. "Negative air machine" in use	y	
	f. Negative pressure > .03" 0.02	0.016	— will be adjusted right away this is due to lighting fixtures being replaced at this moment
2. Signage	a. Caution Signs at vestibule entry.	y	
	b. OSHA SIGN (ASBESTOS)	y	
	c. Dumpster, ducts, drums, and bags labelled		
3. Work Practices	a. Hammers, saws, etc. NOT in use.	y	
	b. Removed Material Promptly Bagged.		
	c. Debris Stored in removal area.	y	

Bamy will follow up to make sure reading stays at >.02 ur

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	y	
	e. Material Kept Wetted Until Bagged.		
4. Worker Protection	a. Disposable Clothing Used One Time.	y	
	b. Proper NIOSH respirators.	Disp HEPA y PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	y	
5. Showers	a. Functioning?	y	
	b. Soap and Towels?	y	
	c. Used Each Departure?	y	
6. Work Habits In Work Area	a. No Smoking	y	
	b. No Eating/Drinking	y	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 4-30-94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 1486 012

Location: 7th Floor Date: 4/30/94

Removal Contractor: Retro Time Started: 0700

Monitoring Contractor: Tracor Time Stopped: 1900

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier		✓
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"		✓
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	N/A	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Rip in barrier, repaired when found

Neg pressure drop to -0.016 when kill all lights in hallway for than 1/2 hour before up to 0.020 again.

Report Prepared By: _____ Date: _____

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEW EXEC OFFICE BLDG Project: 6486-012

Location: 7th FLOOR SW Date: 04/30/94

Removal Contractor: RETRO Time Started: 1900 4/30/94

Monitoring Contractor: TRACOR Time Stopped: 0430 5/1/94

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Matarial Promptly Bagged.	✓	
	c. Debris Stored in removal area.	N/A	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: Scott Dunn Date: 3 MAY 1994

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: New Executive Office Bldg Project: 6486-012

Location: 7th FLOOR (SW) Date: 5/01/94

Removal Contractor: RETRO Time Inspected: 0100

Monitoring Contractor: TRACOR Time Completed: 0130

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	N/A	
	d. Ventilation Equipment.	N/A	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	N/A	
	g. Ductwork.	N/A	
	h. Registers	N/A	
	i. Lights.	N/A	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	9591	5631	7941		
Location:	INSIDE	WORK	AREA		
Volume (Liters):	1200	1200	1200		
Flow rate: (Liters/Minute)	10	10	10		
Fibers/Filter:					
Fibers/Cubic Cm:					

ANALYST ANALYZING SAMPLES: SCOTT DUNN DATE: 5/01/94

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: SCOTT DUNN Date: 5/01/94

REPORT REVIEWED BY: — DATE:

Page # 1

LOG SHEET

Date: 4.29, 30.94

Project Number: 6486.002

Industrial Hygienist: B Wells

Abatement Contractor/Supervisor: Retro Envirs / B. Gorecki

Time	Remarks
1900	IR on site. Work site is the west area of the 7th floor. Retro is moving furniture and preparing the area for containment
2000	Area prepping continues
2100	
2200	
2300	
2400	Electricians are moving and the new light fixture in staging area
0100	Prepping continues
0200	
0300	
0400	Pipefitters moving material in
0500	Prepping continues
0520	IR inspects and approves the area. Neg air is ~~[illegible]~~ < .032 in
0530	Workers are moving into area. IR sets area air samples

Page # 1

LOG SHEET

Date: 4/30/94

Project Number: 6486-012

Industrial Hygienist: B. Hemler

Abatement Contractor/Supervisor: ReTro/Bob

Time	Remarks
0700	onsite workers removing ceiling tile from barrier, (-0.028" pressure)
	plumbers prepping pipes in lobby, electricians working on lights
0725	ceiling tile debris being cleaned from floor outside barrier
	all ceiling tile has been removed from barrier
0755-0805	Inspect barrier all fine (-0.028")
830	Safety meeting, wires, tools, safety glasses for shooting ceiling,
	program down and signing sheet (sign in/out)
900	All trades in barrier all fine (wrapt spoiler)
930	Talk workers about wearing hooks, to be talked at next weeks' meeting
	Ret. start to clean lights (-0.028" neg pressure)
0955-1005	Inspect barrier, barrier not been breached to access
	lights [redacted] Retro respirator, not generally good workers not
	wearing hooks.
1100	Work continues all fine
1130	Retro on lunch all fine (-0.028" neg pressure)
1245	Start switching pumps taking out lights
1300	Work continues all fine begin sample analysis - all samples good
1410-1415	Barrier Inspection all fine taking out black air duct
1415	all lights out prealiz and clean work continues
1525	CIH site visit all fine but neg pressure -0.016 taking lights
	out at Hallway
1530	neg pressure back up to -0.020
1530-50	pressure jumping from -0.016 to 0.020 adjusted microtraps and
	scaffold lights
1555	-0.032" then -0.028
1600-1610	Barrier inspection - found two holes and clean pack -0.024"
	and holding

Page # 2

LOG SHEET

Date: 4/30/94

Project Number: 64810-012

Industrial Hygienist: B Wendel / SCOTT DUNN

Abatement Contractor/Supervisor: Retro / Bob

Time	Remarks
1630	Elec workers gone work completed. Sprinkler crew on break work fine
1730	Sprinkler work continues work fine (-0.028" neg pressure)
1815	Sprinkler work continues work fine (-0.024" neg pressure)
1900	End of shift. NEG PRESSURE AT -0.036" WG. SPRINKLERS HAVE WATER TEST IN PLACE. COAKLEY IS PLACING SOME OF THE CEILING TILES WHILE THE TEST IS RUNNING.
2000	PRESSURE TEST CONTINUES RUNNING + COAKLEY STILL INSIDE PLACING TILES. AIR SAMPLES PULLED AT 2030
2100	ALL AIR SAMPLES ANALYZED — <0.01 f/cc. GRUNLEY + SVRDRUP CONDUCTING WATER TEST/SPRINKLER INSPECTION.
2200	RETRO 2ND SHIFT CREW ARRIVES. WATER TEST PASSES. COAKLEY CONTINUES W/CEILING WORK
2300	COAKLEY CONTINUES INSTALLING TILES AND RETRO CLEANS BEHIND.
0000	GRUNLEY PERFORMS INSPECTION OF CEILING TILE. (Neg air @ -0.024")
0100-0130	FINAL VISUAL INSPECTION PERFORMED. WORKERS CLEANED AREAS AS ADDRESSED BY HYGIENIST.
0145	Final Air Samples set up. WILL BE COLLECTED AT 0345
0345	Final Air Samples collected
0410	Air Samples analyzed. All <0.01 f/cc.
0430	OFF JOB site

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

04/12/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
6486012	70194	1	04/09/94	INS	OVERLOADED
6486012	70294	2	04/09/94	OUT	0.016
6486012	70394	3	04/09/94	OUT	0.010
6486012	70494	4	04/09/94	OUT	< 0.005
6486012	70594	5	04/09/94	OUT	< 0.005
6486012	70694	6	04/09/94	INS	OVERLOADED
6486012	70794	7	04/09/94	OUT	0.005
6486012	70894	8	04/09/94	OUT	< 0.005
6486012	70994	9	04/09/94	OUT	< 0.005
6486012	71094	10	04/09/94	OUT	< 0.005
6486012	71194	11	04/09/94	OUT	BLANK= 0.00
6486012	71294	12	04/09/94	OUT	BLANK= 0.00
6486012	71394	13	04/10/94	FIN	< 0.004
6486012	71494	14	04/10/94	FIN	< 0.004
6486012	71594	15	04/10/94	FIN	< 0.004
6486012	71694	16	04/10/94	FIN	< 0.004
6486012	71794	17	04/10/94	FIN	0.009
6486012	71894	18	04/10/94	FIN	< 0.006

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY

MICHAEL L. EDWARDS
LABORATORY MANAGER

Tracor Technology Resources | **Air Sample Sheet**

Project # 6486-012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	70194	01	23953	2.5	2.5	2.5	0600	1303	423	1058	-	-	—	—	OL
A	Notes: Inside Work Area														
B	70294	02	23949	2.5	2.5	2.5	0602	1304	424	1060	34	100	-	34	0.02
B	Notes: At Deion														
C	70394	03	23952	2.5	2.5	2.5	0604	1304	424	1060	22.5	100	-	22.5	0.01
C	Notes: Freight Elevator Lobby														
D	70494	04	23119	2.5	2.5	2.5	0610	1305	425	1063	2.5	100	-	2.5	<0.005
D	Notes: Front Portion of Computer Room														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

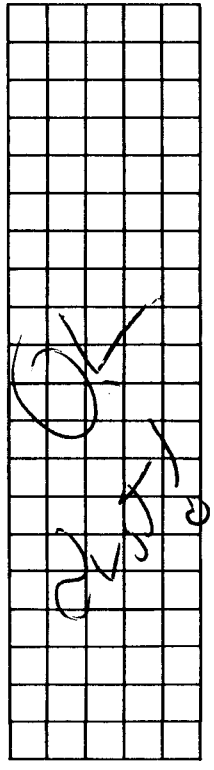
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A



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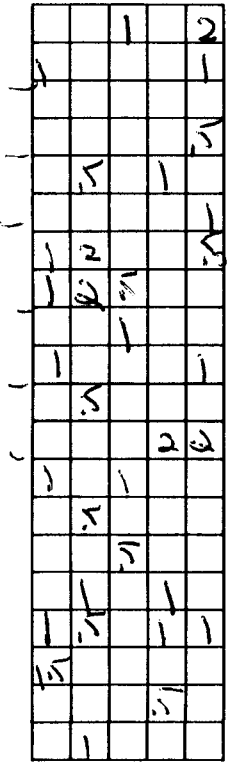

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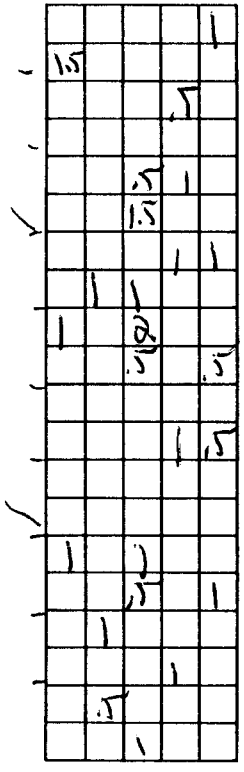

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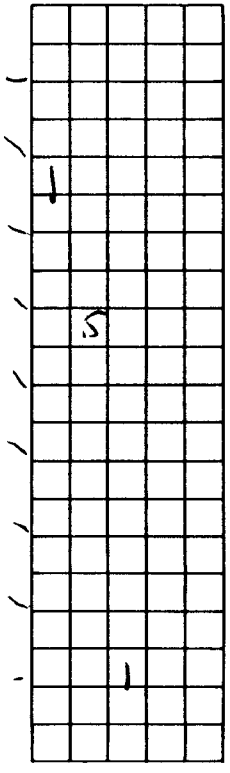


Scott Dunn 4/9/94
FIELD TECH. DATE

Hemlee
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6446 012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	70594	05	13884	2.5	2.5	2.5	0610	1305	425	1063	5.5	100	~~0.5~~	5.5	0.003
A	Notes: Back Portion of Computer Room														
B	70694	06	5112	2.5	2.5	2.5			384	960	OVERLOADED				
B	Notes: Inside work area														
C	70794	07	34	2.5	2.5	2.5			394	985	10	100	0	10	.005
C	Notes: At Decon														
D	70894	08	2	2.5	2.5	2.5			394	985	6½	100	0	6.5	<.005
D	Notes: Freight Elevator lobby														

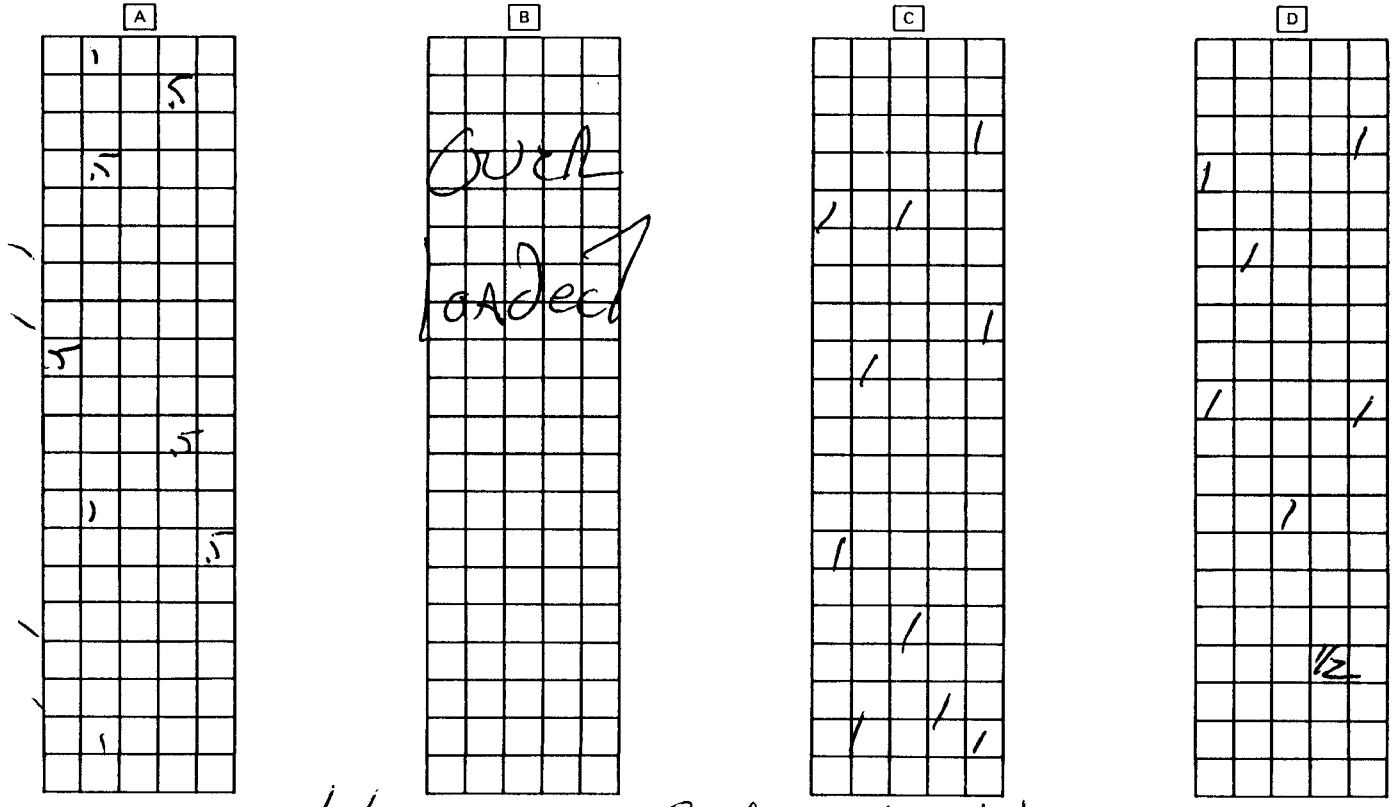
Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



S. Dunn 4/4/94
FIELD TECH. DATE

Gordon Siesti 4/4/94
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 4480-017

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	70994	09	12	2.5	2.5	2.5			396	990	4 1/2	100	0	4.5	<.005
A	Notes: Front of computer room														
B	71094	10	83	2.5	2.5	2.5			396	990	4 1/2	100	0	4.5	<.005
B	Notes: back of computer room														
C	71194	11	—	—	—	—	Blank				0	100	0	0	—
C	Notes:														
D	71294	12	—	—	—	—	Blank				0	100	0	0	—
D	Notes:														

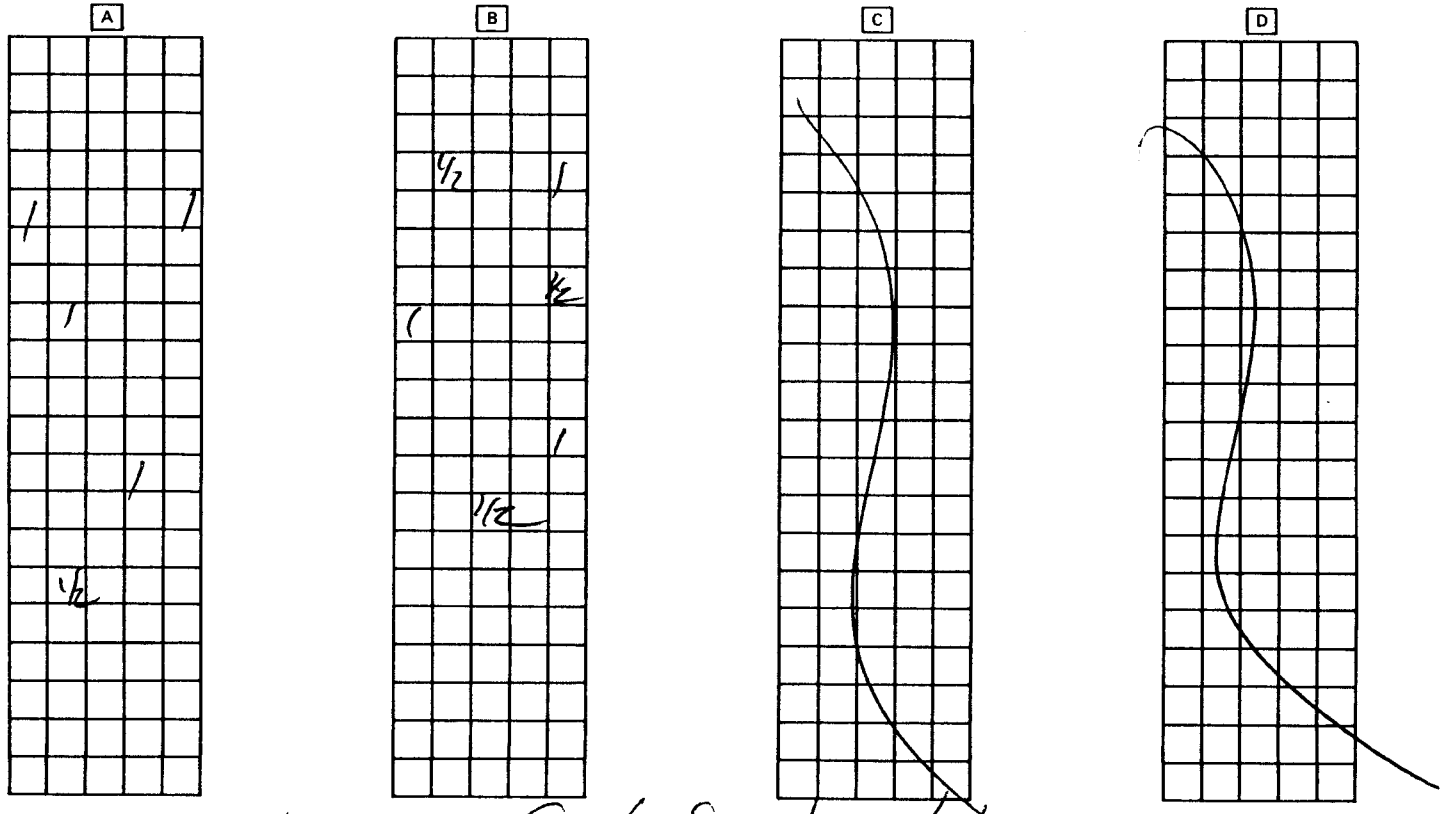
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Henley 4/4/94
FIELD TECH. DATE

Carlson Sieski 4/4/94
ANALYST DATE

Tracer Technology Resources | **Air Sample Sheet**

Project # 6,4,8,6,0,1,2,0,1

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	71394	13	91-1	10	10	10	2300	0100	120	1200	7.5	100	0	7.5	≤.004
A	Notes:			North	End		Inside				Final	Air			
B	71494	14	91-2	10	10	10	2300	0100	120	1200	2	100	0	2	≤.004
B	Notes:			South	End		Inside				Final	Air			
C	71594	15	90-3	10	10	10	2300	0100	120	1200	1.5	100	0	1.5	≤.004
C	Notes:			East	End		Inside				Final	Air			
D	71694	16	90-2	10	10	10	2300	0100	120	1200	3	100	0	3	≤.004
D	Notes:			West	End		Inside				Final	Air			

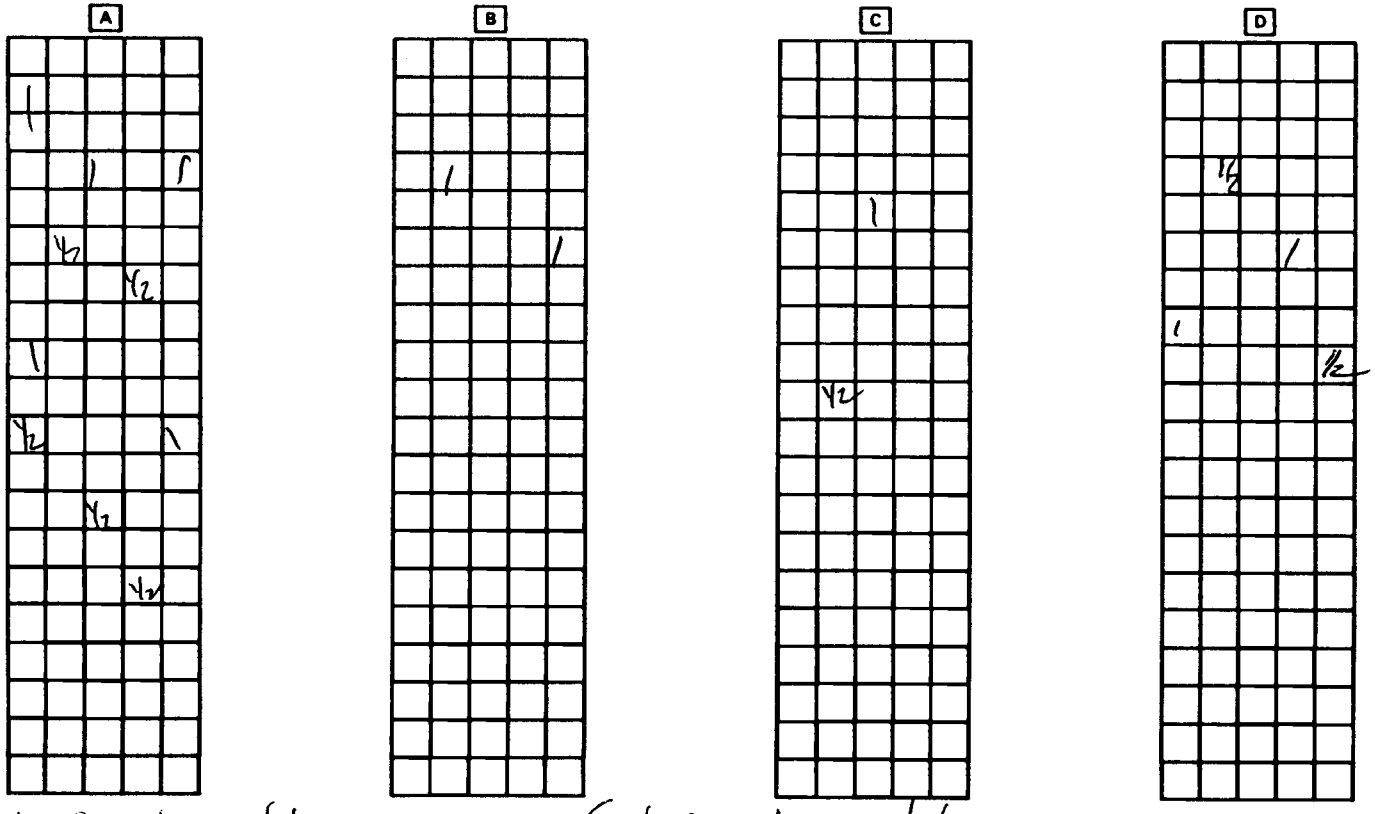
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Gordon Siest 4/9/94
FIELD TECH. DATE

Gordon Siest 4/10/94
ANALYST DATE

Tracer Technology Resources | **Air Sample Sheet**

Project # 6.4.8.6.0.1.2

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	71794	17	R-1	10	10	10	2245	2345	60	600	10.5	100	0	10.5	.009
A	Notes: Outside Final after Cleanup South of Door Entrance/Final														
B	71994	18	R-1	10	10	10	2345	2445	60	600	6	100	0	6	.006
B	Notes: Freight Elevator Lobby After Cleanup Outside Final														
C															
C	Notes:														
D															
D	Notes:														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

	1	1/2		1
1/2			1/2	
	1/2			
		1/2		
				1
	1			
		1/2		1/2
		1/2		1/2
	1			
		1		

B

1		1		
	1			
			1	
1/2				1
		1/2		

C

D

Colombiesski 4/9/94
FIELD TECH. DATE

Colombiesski 4/10/94
ANALYST DATE

Page # 1

LOG SHEET

Date: 04/08-09/94

Project Number: 6486-010

Industrial Hygienist: Scott Dunn

Abatement Contractor/Supervisor: Retro / Bob Gunecke

Time	Remarks
1900	Arrive at New EOC. Retro will not be here until
	about 2000. Access apparently will not be permitted
	until 2100.
2000	Retro arrives.
2030	All contractors go to 4th floor for prep work
2030 - 0530	Setup of containment on East Side of Computer Room
0530	Containment has only 4 microtraps - only about 4 holes
	are supposed to be made. Most of the work is for
	the electricians.
0600	Retro enters the work area. Work begins.
0630-0645	TTR enters work area to observe work practices +
	to see if Retro is only taking 1/3 of tiles at
	a time. So far workers comply. One of the workers
	cleaning the grid had his mask off his face
	talking to his co-worker

Page # 1

LOG SHEET

Date: 4/9/94

Project Number: 6486-012

Industrial Hygienist: Barry Hemler

Abatement Contractor/Supervisor: Retro / Bob

Time	Remarks
0700	on site
0705	Finish site survey - all fine
0745	Removing ceiling tile from containment
0800	Ceiling tile out of containment, cleaning debris from cont entrance from tile (non ACM)
0900	Work continues with fine
1000	All fine
1030	Begin sending in water CT
1100	Work continues with fine
1130	CIH Site Visit
1200	Work continues and fine
1300	Pulled 1st set of pumps, set up second
1400	Sending more CT, lights cleaned stored inside for night
1500	Begin removing lights from barrier
1600	All fine
1700	Continue removing lights from barrier
1745	All lights out
1800	Cleanup continues
1900	End of shift

Page # 1

LOG SHEET

Date: 4/9/94 / 4/10/94

Project Number: 6486-012

Industrial Hygienist: Golomsieski

Abatement Contractor/Supervisor: Retro / Ronald

Time	Remarks
1845	I Arrived on site to relieve Barry Hemler.
1900	I did a site check + there were holes + breaches in the containment in approximately 6 places. This is uncalled for. Work is beginning to become sloppy. I reviewed paper work + air samples #'s 2 + 3 were > .01 outside of the decon + in freight elevator.
1915	Retro on site. All other contractors are off site + work is completed. I spoke with Ronald about the breaches in the containment. (He is fixing them) I told him to wet wipe the area outside of the containment ~~[illegible]~~ Suite & the decon from the Glass Room leading to the West and of the computer Room + East all the way to the freight elevator + I will Run a final when he is completed.
2030	Crew is still fine cleaning + wet wiping outside area
2130	Crew is cleaning + bagging out
2225	Went in for inspection was passed + Encapsulation begins.
2245	Set up outside fan in hallway after

Page # 2

LOG SHEET

Date: 4/9/94 / 4/10/94

Project Number: 6486-012

Industrial Hygienist: Golomsiski

Abatement Contractor/Supervisor: Retro / Ronald

Time	Remarks
2245 exit	wet wiping + bags vacuuming was completed
2300	set up fans within the containment
2400	All fans still Running
0100	All fans pulled + being prepped
0200	off site everything passed!

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: New Exec. Office Bldg Project: SPRINKLERS

Location: 4th Floor Computer Room Date: ~~[illegible]~~ 4/8-9/94

Removal Contractor: RETRO Time Inspected: 0530

Monitoring Contractor: TRACOR Time Work Started: 0600

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	4	
	f. Negative pressure > .02"	N/A	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Matarial Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: Scott Dunn Date: 4/9/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: New Exec Ofc Bldg Project: Sprinkler

Location: 4th Floor Computer Room Date: 4/8-9/94

Removal Contractor: RETRO Time Started: 1900 4/8

Monitoring Contractor: TRACOR Time Stopped: 0700 4/9

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	4	
	f. Negative pressure > .03"	N/A	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Matarial Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: Scott Dunn Date: ~~[illegible]~~ 4/9/04

CIH Inspection

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 648-012

Location: 4th Floor Computer Room Date: 4/9/94

Removal Contractor: Refs Time Started: 11:10

Monitoring Contractor: Tracor Time Stopped: 11:30 AM

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓ ~~[illegible]~~	
	f. Negative pressure > .03"	Waived by GSA	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Matarial Promptly Bagged.	—	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [illegible] Date: 4/9/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 4th Floor Computer Room Date: 4/9/94

Removal Contractor: Retro Time Started: 0700

Monitoring Contractor: Tracor Time Stopped: 1900

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	Waived by GSA	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Matarial Promptly Bagged.		
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 4/9/94

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

03/22/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
6486012	68494	1	03/19/94	INS	0.033
6486012	68594	2	03/19/94	OUT	0.00[illegible]
6486012	68694	3	03/19/94	OUT	< 0.005
6486012	68794	4	03/19/94	OUT	VOIDED
6486012	68894	5	03/19/94	OUT	0.007
6486012	68994	6	03/19/94	OUT	< 0.005
6486012	69094	7	03/19/94	INS	0.00[illegible]
6486012	69194	8	03/19/94	OUT	0.005
6486012	69294	9	03/19/94	OUT	< 0.004
6486012	69394	10	03/19/94	OUT	< 0.00[illegible]
6486012	69494	11	03/19/94	OUT	< 0.00[illegible]
6486012	69594	12	03/19/94	OUT	BLANK= 0.0[illegible]
6486012	69694	13	03/19/94	OUT	BLANK= 0.0[illegible]
6486012	69794	14	03/20/94	FIN	< 0.004
6486012	69894	15	03/20/94	FIN	< 0.00[illegible]
6486012	69994	16	03/20/94	FIN	< 0.00[illegible]
6486012	70094	17	03/20/94	FIN	< 0.004

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL L. EDWARDS
LABORATORY MANAGER

Tracor Technology Resources | **Air Sample Sheet**

Project # 6486-012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	68494	01	500709	2.5			0425	1129	424	1060	71.5	100	0	71.5	
A	Notes: INSIDE CONTAINMENT														
B	68594	02	92-15	2.5			0428	1131	423	1057.5	17	100	0	17	.008
B	Notes: OUTSIDE DECON														
C	68694	03	23193	2.5			0429	1132	423	1057.5	3.5	100	0	3.5	
C	Notes: ELEVATOR LOBBY														
D	68794	04	23192	2.5			0433	1137	—	—	—	—	—	—	—
D	Notes: STAIRWELL #1 → 10th Floor										VOID				

Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

1	.5	1	1	1
0	1.5	.5	0	1
.5	3	.5	1	1
0	0	1	0	0
0	1	.5	1	.5
0	1	0	1	2
.5	1	1	0	1
0	1	.5	.5	1
0	1	0	1	1
0	.5	2	1	0
1	1	1	0	.5
1	0	0	1	0
.5	.5	2	1	0
1	0	1	0	0
1	0	0	1	0
0	3	.5	2	1
1	0	2	0	1
1	1	0	1	0
1	0	1	1	0
.5	.5	1	0	1

B

1	1	1		
				1
	1			
		1		
	1		1	
	.5	1		
			1	
	1			
	1			
			1	
	1	.5		
				1
1				

C

			1	
	1			
			1	
.5				

D

DUNN 3/19/94
FIELD TECH. DATE

[illegible] 3-19-94
ANALYST DATE

Tracor Technology Resources | **Air Sample Sheet**

Project # 6,4,8,6,-,0,1,2

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc	
A	68894	05	92-16	2.5	2.5	2.5	0435	1137	422	1055	15	100	0	15		BH
A	Notes: CRITICAL BARRIER NEXT TO RM. 4205															
B	68994	06	92-31	2.5	2.5	2.5	0436	1137	421	1052.5	1	100	0	1		BH
B	Notes: AT ROOM 4202															
C	69094	07	9234	2.5	2.5	2.5	1310	2054	464	1160	14	100	0	14	.006	JG
C	Notes: Inside barrier - 4th floor															
D	69194	08	9233	2.5	2.5	2.5	1312	2043	451	1128	12	100	0	12	.005	JG
D	Notes: Outside door															

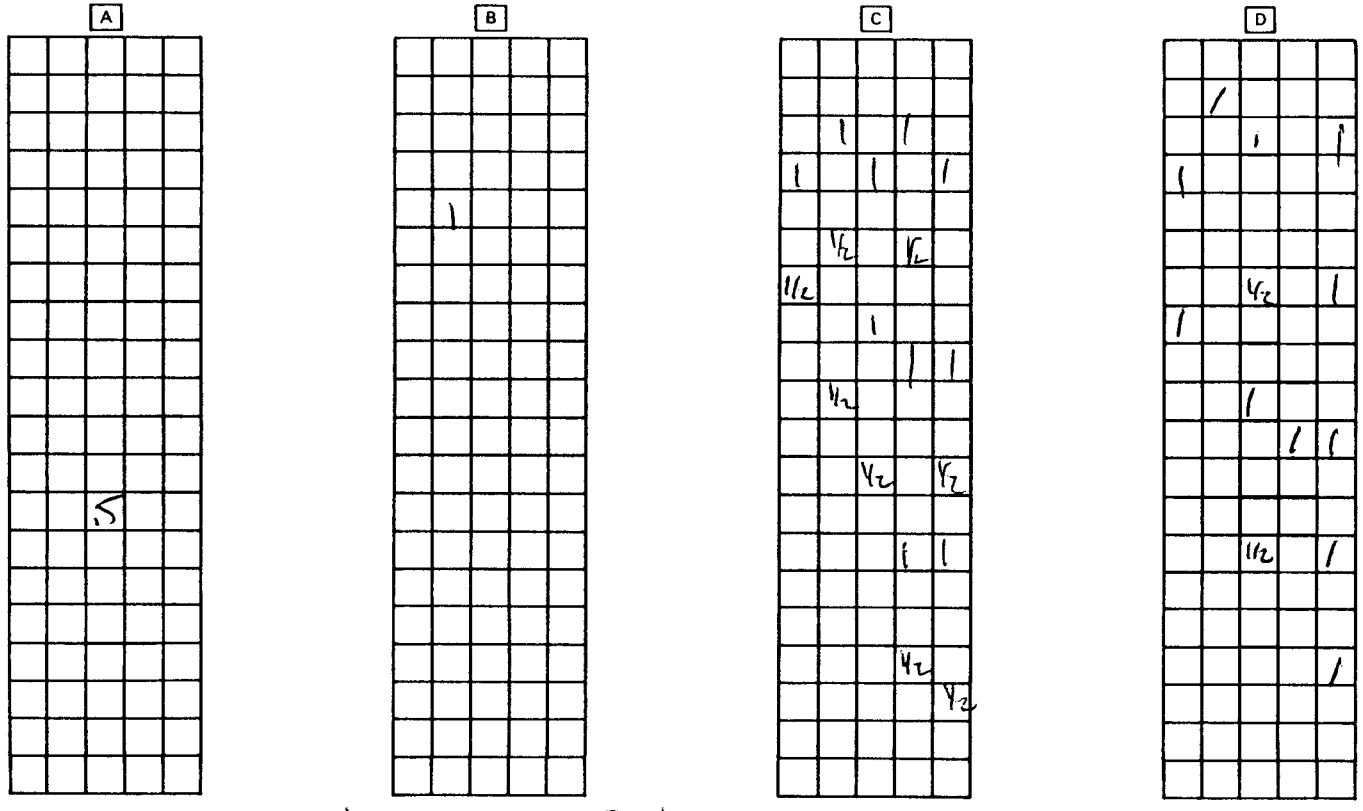
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



DUNN 3/14/94
FIELD TECH. DATE

Coolombiaski 3-14-94
ANALYST DATE

Tracor Technology Resources — Air Sample Sheet

Project # 64,86,01 2

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data Total Count	Count Data Fields Counted	Count Data Blank Count	Count Data Net Count	Fibers Per cc
69294 A	6486012	A9	2311	2.5	2.5	2.5	1312	2042	450	1125	4.5	100	0	4.5	<.004
A	Notes: 4th Floor lobby														
69394 B	"	A10	2224	2.5	2.5	2.5	1316	2046	450	1125	1.5	100	0	1.5	<.004
B	Notes: Stairway 1 - exhaust														
69494 C	"	A11	5112	2.5	2.5	2.5	1316	2046	450	1125	.5	100	0	.5	<.004
C	Notes: Stairway 2 - exhaust														
D															
D	Notes:														

Field Area: (Check One) ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Calculations: Mean Flow = $\frac{Pre + Post}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Net Count = $\left(\frac{Total\ Count}{Fields\ Counted} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(Net\ Count/100) \times Filter\ Area}{Field\ Area \times Volume \times 1000}$

A

1				1/2
		1/2		
	1		1	
1/2				

B

		1/2		
				1

C

				.5

D

[signature] Fowler 3-14-94
FIELD TECH. DATE

[signature] 3-14-94
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6486012011

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	69594	12	—	—	—	—	—	—	—	→	0	100	0	0	—
A	Notes:		Blank												
B	69694	13	—	—	—	—	—	—	—	→	0	100	0	0	—
B	Notes:		Blank												
C															
C	Notes:														
D															
D	Notes:														

Field Area: (Check One)
- ☒ .00785
- ☐ .00754
- ☐ .00724
- ☐ .00801
- ☐ .00817

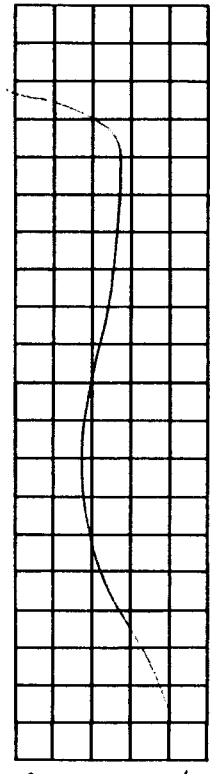
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- ☒ 25 mm (385 sq mm)
- ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A



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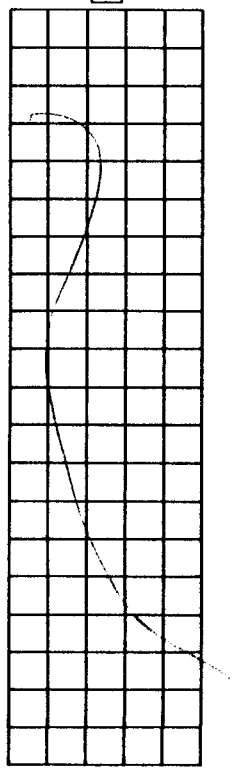

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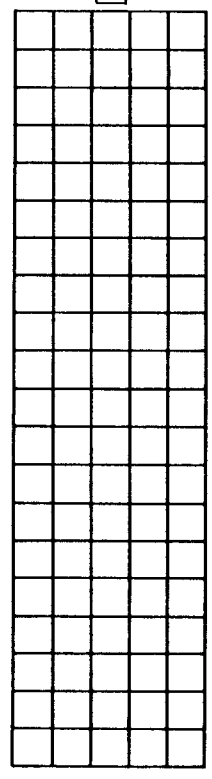

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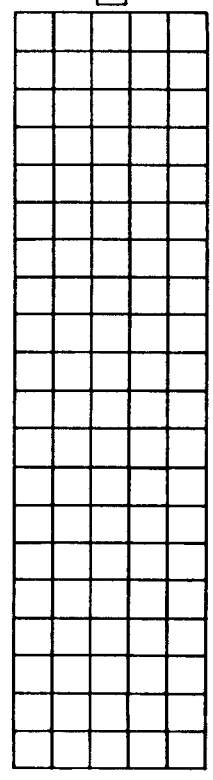


Columbiski 3-M-94
FIELD TECH. DATE

Columbiski 3-M-94
ANALYST DATE

Tracer Technology Resources — **Air Sample Sheet**

Project # 6486 01 2 01

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	69794	14	L-1	10	10	10	0015	0215	120	1200	2 1/2	100	0	2.5	<.004
A	Notes: North End Containment Final Air														
B	69894	15	L-2	10	10	10	0015	0215	120	1200	2 1/2	100	0	2.5	<.004
B	Notes: South End Containment Final Air														
C	69994	16	T-3	10	10	10	0015	0215	120	1200	1	100	0	1	<.004
C	Notes: East End Containment Final Air														
D	70094	17	T-4	10	10	10	0015	0215	120	1200	5	100	0	5	<.004
D	Notes: West End Containment Final Air														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

		1		
			1	
1/2				

B

	1			
			1/2	
				1

C

		1		

D

1				
		1		
			1	
				1/2
				1/2
			1	

Colombieski 3-20-94
FIELD TECH. DATE

Colombiesk 3-20-94
ANALYST DATE

Page # 1

LOG SHEET

Date: 03/18/94 - 03/19/94

Project Number: 6486-012

Industrial Hygienist: SCOTT DUNN

Abatement Contractor/Supervisor: RETRO / RONALD

Time	Remarks
1900	TRACOR and RETRO escorted to 4th Floor. Retro begins by moving equipment to 4th Floor. Move furniture out.
2000	Workers begin setting up
2100-0400	Workers set up containment on 4th Floor
	Initial inspection performed. Negative pressure @ -0.028"
0400-0420	Inspection for work to begin meets criteria. Twenty microtraps have been set up.
0440	Workers enter work area and begin taking out tiles (SCT)
0545	Workers inside putting up critical barrier. Negative pressure at -0.032". Pipe fitters and electricians on site. Pipe-fitters cutting pipe in elevator lobby
0650	Pipe-fitters carrying pipe into containment. Electricians inside taking down + installing new light fixtures.

Page # 1

LOG SHEET

Date: 3/10/94

Project Number: 648[illegible]-012

Industrial Hygienist: Barry Hemler / Golomshiesli

Abatement Contractor/Supervisor: Retro - Sunny / Ronald

Time	Remarks
0715	on site plumbing and electrical work continues
0800	work continues well fine
0900	Sprinkler workers go on break all fine
1000	Sprinkler workers return to work electrical work continues
1100	electricians on break all fine begin removing lights from barrier
1130	Removed pumps work continues
1200	Lunch
1300	return to work set up second set of pumps
1400	Elec & plumbing work continues
1500	Work continues all fine
1600	All fine
1630	electricians leave out lights hung
1700	Filling system with water to test it, bring out equipment
1715	Pressure test begin
1800	Test continues begin, taking ceiling tile in.
1900	Replacing ceiling and cleaning barrier all fine
1900	On-site water test on + Caulking almost done with tiles
2030	Water test passed Retro on-site Ceiling tile guys almost done
2200	Everything okay Retro final cleaning Tile crew passed Inspection at 2200 has finials should be on around 0000 hrs
2330	I entered for inspection
2400	Encapsulation is completed
2415	Final area set up + running

Page #_____

LOG SHEET

Date: 3-/14-2-/94

Project Number: 6486-012

Industrial Hygienist: Golomsieski

Abatement Contractor/Supervisor: Retro / Ronald

Time	Remarks
0200	Final airs running pull at 0215
0215	Pulled final airs will prep + read samples.
0300	Samples passed IIR off site.

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: 4th FLOOR Project: SPRINKLER

Location: NEW EXEC Office Bldg Date: 03/19/94

Removal Contractor: RETRO Time Inspected: 0400

Monitoring Contractor: TRACOR Time Work Started: 0440

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	✓	
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: Scott Dunn Date: 3/19/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: New Exec Office Bldg Project: SPRINKLER

Location: 4th FLOOR Date: 03/19/94

Removal Contractor: RETRO Time Started: 1900 3/18/94

Monitoring Contractor: TRACOR Time Stopped: 0700 3/19/94

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > ~~.03"~~ >0.02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: SCOTT DUNN Date: 03/19/94

CIH Inspection

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NERB Project: Sprinkler

Location: 4th Floor Date: 3/19/94

Removal Contractor: Retro Time Started: _____

Monitoring Contractor: Tanner Time Stopped: 5:00 PM

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	Y	
	b. Decontamination Curtains	Y	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	Y	
	e. "Negative air machine" in use	Y	
	f. Negative pressure > .03"	0.16!	follow-up
2. Signage	a. Caution Signs at vestibule entry.	Y	
	b. OSHA SIGN (ASBESTOS)	Y	
	c. Dumpster, ducts, drums, and bags labelled	Y	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	Y	
	b. Removed Material Promptly Bagged.	Y	
	c. Debris Stored in removal area.		

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	Y	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	Y	
	b. Proper NIOSH respirators.	Disp ___ HEPA Y PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	Y	
5. Showers	a. Functioning?	Y	
	b. Soap and Towels?	Y	
	c. Used Each Departure?	Y	
6. Work Habits In Work Area	a. No Smoking	Y	
	b. No Eating/Drinking	Y	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 3/19/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: SPRINKLER

Location: 4th Floor Date: 3/19/94

Removal Contractor: Retro Time Started: 0700

Monitoring Contractor: Tracor Time Stopped: 1900

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	✓	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"		✓
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Pressure binary

Report Prepared By: [signature] Date: 3/14/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: UEOB Project: 6486-012

Location: 4th Floor Date: 3/19-20/94

Removal Contractor: Retro Time Started: 1900

Monitoring Contractor: TMR Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP "C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking		

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: Galom Suesla Date: 3/19-20/94

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 6486-012

Location: 4th Floor Date: 3/19-20/94

Removal Contractor: RETRO Time Inspected: 2330

Monitoring Contractor: TTN Time Completed: _____

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	✓	
	d. Ventilation Equipment.	✓	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	✓	
	g. Ductwork.	✓	
	h. Registers	✓	
	i. Lights.	✓	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	14	15	16	17	
Location:	N	S	E	W	
Volume (Liters):	1200	1200	1200	1200	
Flow rate: (Liters/Minute)	10.0	10.0	10.0	10.0	
Fibers/Filter:	2½	2½	1	5	
Fibers/Cubic Cm:	<.004	<.004	<.004	<.004	

ANALYST ANALYZING SAMPLES: Colon Suesti DATE: 3-20-94

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: _____ Date: _____

REPORT REVIEWED BY: _____ DATE: _____

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

05/06/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
648601201	57594	1	03/12/94	OUT	< 0.005
648601201	57694	2	03/12/94	OUT	< 0.005
648601201	57794	3	03/12/94	OUT	< 0.005
648601201	57894	4	03/12/94	INS	0.057
648601201	57994	5	03/12/94	INS	< 0.007
648601201	58094	6	03/12/94	OUT	BLANK= 0.0[illegible]
648601201	58194	7	03/12/94	OUT	BLANK= 0.0[illegible]
648601201	58294	8	03/12/94	OUT	0.00[illegible]
648601201	58394	9	03/12/94	OUT	< 0.00[illegible]
648601201	58494	10	03/12/94	OUT	< 0.00[illegible]
648601201	58594	11	03/12/94	OUT	< 0.005
648601201	58694	12	03/12/94	FIN	< 0.00[illegible]
648601201	58794	13	03/12/94	FIN	< 0.00[illegible]
648601201	58894	14	03/12/94	FIN	< 0.00[illegible]
648601201	58994	15	03/12/94	FIN	< 0.00[illegible]

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL L. EDWARDS
LABORATORY MANAGER

Tracor Technology Resources — **Air Sample Sheet**

Project # 6486.012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	57594	01	12	2.5	2.5	2.5	0213	0928	435	1087.5	3	100	0	3	<0.005
A	Notes: On office 4203 door														
B	57694	02	41	2.5	2.5	2.5	0218	0923	425	1062.5	5	100	0	5	<0.005
B	Notes: On office 4212 door														
C	57794	03	34	2.5	2.5	2.5	0215	0937	432	1080	1	100	0	1	<0.005
C	Notes: At AFD exhaust														
D	57894	04	2	2.5	2.5	2.5	0208	0924	436	1090	100.5	80	0	105.6	0.06
D	Notes: In clean room														

Field Area: (Check One) ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

			2	
			1	
	1			
			1	
			1	

B

			1	
1				
				.5
	.5			1
1				

C

1				

D

	1	1		1	
6.5		1		1	1.5
	2	2			
11		3	3	1	
	.5		2	1	1
8		1		3	
	4	3	1	2	.5
16.5	1		1	1	3
	1	3	2	1	3
15	2	2	—	—	1
	3	1	4	2	4
21	—	4	—	2	1
	.5	—	—	5	1
16.5	—	1	-	-	3
	1	3	1	—	2
13	—	-	-	2	3

88.5

FIELD TECH. DATE

ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6486 · 012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	57994	05	83	2.5	2.5	2.5	0205	0700	290	737.5	.5	100	0	.5	[illegible]
A	Notes: Inside WA														
B	58094	06	—	—	—	—	—	—	—	—	0	100	—	—	—
B	Notes: Blank														
C	58194	07	—	—	—	—	—	—	—	—	0	100	—	—	—
C	Notes: Blank														
D	58294	08	8583	2.5	2.5	2.5	1045	1745	420	1050	12	100	0	12	0.006
D	Notes: Working - on site decon room 1/pm 4/12														

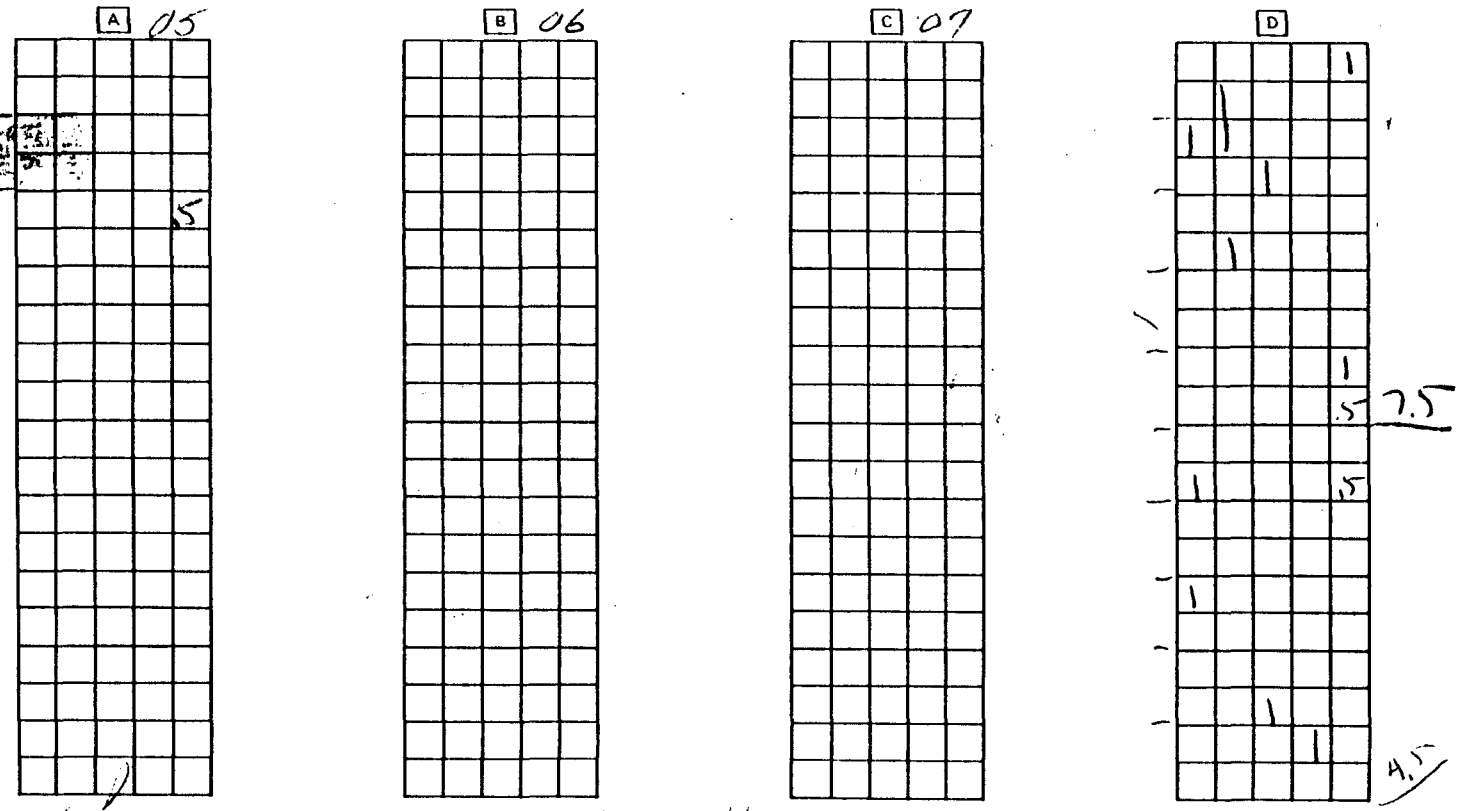
Field Area: (Check One)
- ☒ .00785
- ☐ .00754
- ☐ .00724
- ☐ .00801
- ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- ☒ 25 mm (385 sq mm)
- ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



3-11-94
FIELD TECH. DATE

3-14-94
ANALYST DATE

Tracor Technology Resources — Air Sample Sheet

1601 Research Boulevard
Rockville, Maryland 20850

Project # 4856.012

		Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
58574	A	4856012	09	12	2.5	2.5	2.5	1415	2039	384	960	2	100	0	2	<0.005
	A	Notes: outside decon 4th Floor – working														
58494	B	"	10	34	2.5	2.5	2.5	1415	2039	384	960	3	100	0	3	<0.005
	B	Notes: outside working sign 4210														
58594	C	"	11	41	2.5	2.5	2.5	1415	2039	384	960	4	100	0	4	<0.005
	C	Notes: outside working back of containment sign														
	D															
	D	Notes:														

Field Area: (Check One) ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

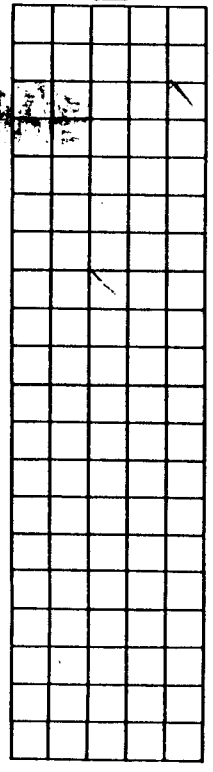
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A



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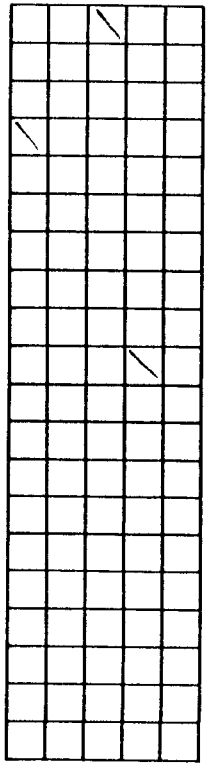

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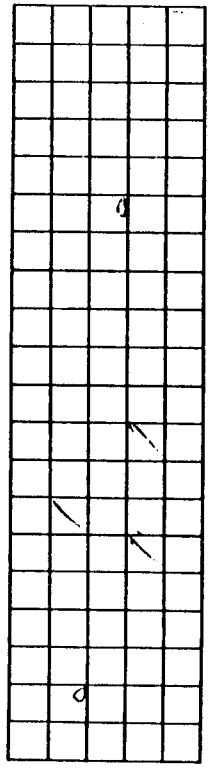

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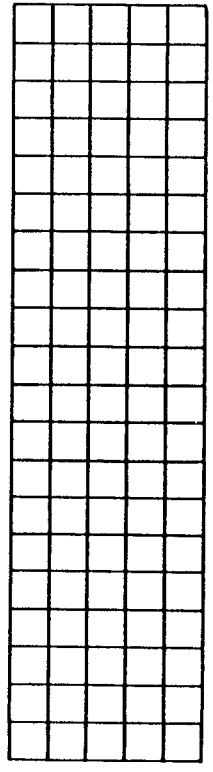


FIELD TECH. DATE

ANALYST DATE

Tracor Technology Resources

1601 Research Boulevard
Rockville, Maryland 20850

Air Sample Sheet

Project # 6486-012

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Flow Calibration Mean (Liters/Min)	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	58694	12	49	10	10	10	2100	2300	120	1200	1.5	100	0	1.5	<0.004
A	Notes: Final - 4th floor														
B	58794	13	5631	10	10	10	2102	2302	120	1200	2.5	100	0	2.5	<0.004
B	Notes: Final - 4th floor														
C	58894	14	463	10	10	10	2104	2304	120	1200	2	100	0	2	<0.004
C	Notes: Final - 4th floor														
D	58994	15	28	10	10	10	2106	2306	120	1200	7	100	0	7	<0.004
D	Notes: Final - 4th floor														

Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

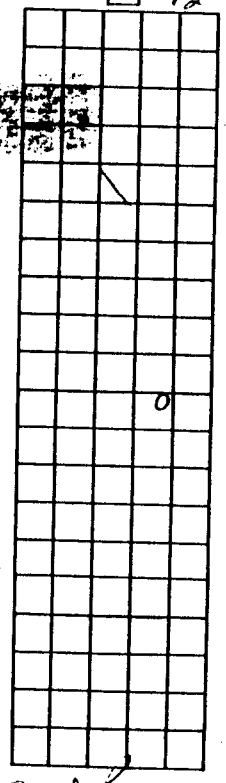
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

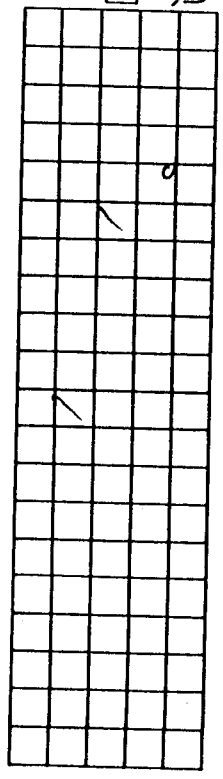
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A 12



B 13



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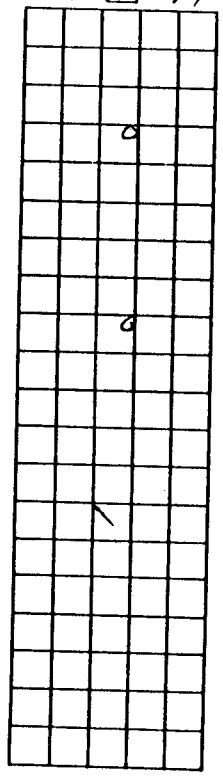

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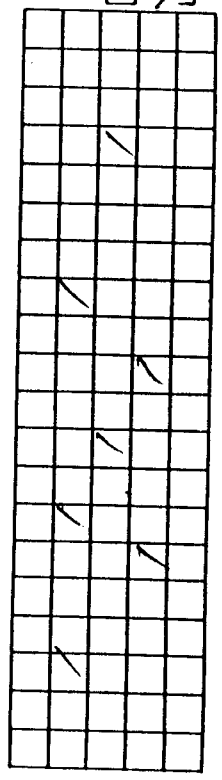

B Hall 3-12-94
FIELD TECH. DATE

B Hall 3-12-94
ANALYST DATE

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB Project: 6486-012

Location: 4th floor Date: 3-11-94

Removal Contractor: Retro Services Time Inspected: 0145

Monitoring Contractor: Tracor Time Work Started: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	✓	
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	na	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection			
	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp HEPA To face PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: B Fells Date: 3-11-94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 4th floor Date: 3·11·94

Removal Contractor: Retro Environ Time Started: 1900

Monitoring Contractor: Tracor Time Stopped: 0700

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	na	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	na	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA Half face PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Stalls Date: 3-11-94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: Sprinkler 648602

Location: 4th floor - lobby

Date: 3/12/94

Removal Contractor: Retro

Time Started: 0700

Monitoring Contractor: TRACOR

Time Stopped: 1900

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	na	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	na	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Catagory	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: R Kemler Date: 3-12-94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: 6486.012

Location: 4th floor

Date: 3.12.94

Removal Contractor: Petro

Time Started: 1900

Monitoring Contractor: Tracor

Time Stopped: 2030

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	na	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	na	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA 1/2 face PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
"Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Stalls Date: 8-12-94

EXHIBIT C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 6486-012

Location: 4th floor Date: 3-12-94

Removal Contractor: Retro Time Inspected: 2025

Monitoring Contractor: Tracor Time Completed: 2100

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	✓	
	d. Ventilation Equipment.	✓	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	✓	
	g. Ductwork.	✓	
	h. Registers	✓	
	i. Lights.	✓	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	12	13	14	15	
Location:	inside WA	inside WA	inside WA	inside WA	
Volume (Liters):	1200	1200	1200	1200	
Flow rate: (Liters/Minute)	10	10	10	10	
Fibers/Filter:	1.5	2.5	2	7	
Fibers/Cubic Cm:	<0.004	<0.004	<0.004	<0.004	

ANALYST ANALYZING SAMPLES: B Wells DATE: 3-12-94

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Wells Date: 3-12-94

REPORT REVIEWED BY: _____ DATE: _____

Page # 1

LOG SHEET

Date: 3.11.94

Project Number: C482-0121

Industrial Hygienist: B. Wells

Abatement Contractor/Supervisor: Retro Environ / B. Gorecki

Time	Remarks
1900	all hands meeting at the front desk to pick up entry tags
2000	Retro doing the 4th floor elevator lobby
2100	Retro prepping ACA
2200	
2300	
2400	
0100	
0145	IR inspected the ACA and gave Retro permission to start. Neg air at -0.064 in
0400	Pipefitters on site. Retro starting.
0500	Work continuing
0600	"
0700	"
0715	B. Hemmler on site to relieve B. Wells

Page #_____

LOG SHEET

Date: 3/12/94

Project Number: 6486-012

Industrial Hygienist: Barry Hemler

Abatement Contractor/Supervisor: Retro

Time	Remarks
0700	At lobby
0720	on work site bob showed me pumps - work continues
0800	work continues - all fine
0920	work continues - collect first set of samples
1000	collect 5 bulk samples of laundry chute plaster
1100	work continues, high inside decon count (0.05) pay better
	attention to decon use and procedures, new decon sample
1200	~~work continues~~ all fine plumber exit for lunch break
1300	Workers return to work all fine
1400	work continues set up second set of samples
1500	work continues
1600	Work continues
1730	setting up to do pressure test
1800	Testing continues of sprinkler system (pressure test)
1900	B Stell on site to relieve B Hemler

Page # 2

LOG SHEET

Date: 3.12.94

Project Number: 6486.002

Industrial Hygienist: B Stalls

Abatement Contractor/Supervisor: Retro / B Gorecki

Time	Remarks
1900	B Stalls relieving B Kimler
2000	Water pressure test being run
2025	IIR inspects and ok's ACM for encapsulation
	Retro encapsulates
2100	IIR sets final airs
2300	IIR analyzed the final air sample and
	found all samples less than 0.01 f/cc the
	recommended level for clean air by EPA
2325	IIR gave Retro permission to return the
	area to use
2400	IIR off site

GRUNLEY-WALSH

TRANSFORMER AND SWITCHGEAR REPLACEMENT
NEW EXECUTIVE OFFICE BUILDING

GSA, WHPO, Washington, D.C.
GS-11P98MQD0108 <> P-11-02-MA-0001
G-WJV Job #02-077

SUBMITTAL DATA

PCB TRANSFORMER REMOVAL AND DISPOSAL

Contractor Qualifications (01), Plan of Action (02), Method of Removal (03), Safety Procedures (04) and Contingency/Emg. Response Plan (05)

Specification Section 00900
Submittal No.'s 00900-01, 02, 03, 04 & 05

Subcontractor: **USA Lights/Environmental Preservation Associates, Inc. (EPA, Inc.)**
Contact/Phone: **Glen Smith 301-699-6244**

Please note the following Grunley-Walsh review comments:

1. Current/updated Certificates of Insurance for all parties to be forwarded shortly
2. The transformer Rigging Plan will be submitted separately
3. Copies of all Manifests/Certificates of disposal will be forwarded to GSA as specified
4. PCB Wipe tests to be performed prior to and after removal. Results to be forwarded separately

Submittal No.: **00900-01, 02, 03, 04 and 05**
Specification Section **00900**
Contractor: GRUNLEY-WALSH JOINT VENTURE
TRANSFORMER AND SWITCHGEAR REPLACEMENT @ NEOB GS-11P98MQD0108
We hereby state that we have reviewed, inspected and checked
the information submitted and vouch for accuracy and compliance
with the Contract Documents and surrounding conditions, subject to the Owners approval.

Reviewed by: Peter J. Kalicko, PM
Date: 10/25/02

USA Lights™

Environmental Preservation Associates, Inc.

October 7, 2001

Grunley/Walsh
5010 Nicholson Lane Suite 1
Rockville, Maryland 20852

Fax: 301-881-8083
Phone: 301-881-8081

Contact: Mr. Bassem Soueidan

Project Name:, New Executive Office Building, Washington, DC

TRANSFORMER REMOVAL AND DISPOSAL/INCINERATION SCOPE OF WORK

All nine (9) transformers will be removed and staged. This removal will be done by others.

USA Lights will provide flat bed trucks as required in the project phasing schedule, from SJ Transportation for the transportation and disposal of the transformers. This will take place as directed by the Customer.

All transformers will be taken to G&S Motor works for draining and proper disposal. All work will be done in accordance to all Federal, State and Local regulations. Generator will receive all copies of manifest and certificates of incineration and disposal.

MINORITY OWNED AND OPERATED
3408 52nd Avenue * Hyattsville, Maryland 20781
(301) 699-6244 or (410) 547-8655 Fax: (301) 699-6249

USALights™

Environmental Preservation Associates, Inc.

October 7, 2002

Grunley/Walsh
5010 Nicholson Lane Suite 1
Rockville, Maryland 20852

Fax: 301-881-8083
Phone: 301-881-8081

Contact: Mr. Bassem Soueidan

Project Name:, New Executive Office Building, Washington, DC

TRANSFORMER REMOVAL AND DISPOSAL/INCINERATION PLAN OF ACTION

G&S Motor Equipment, Inc. will be the company that will be providing the removal of the PCB Oil at their facility in New Jersey.

Activity Hazard Analysis - The hazard that we are working with are PCB oil's with nine transformers having levels between 50 to 499 ppm. All work will be done in off hours. Transformers will be removed and staged by others, USA Lights will provide flat bed trucks for the removal of the transformers at the direction of Grunley/Walsh and as required by the project phasing schedule.

MINORITY OWNED AND OPERATED
3408 52nd Avenue * Hyattsville, Maryland 20781
(301) 699-6244 or (410) 547-8655 Fax: (301) 699-6249

Applicable Safety and Health Regulations and Standards are to be met - USA Lights and G&S Motor Equipment have provided PCB transformer oil removal and disposal for over ten (10) years. During this time we have had no violations, at the facility, during transportation or at the generator site. This is accomplished by assuring that all area's are properly protected prior to starting the project and that all employees are wearing the proper protective equipment at all times during the project duration. All work will be done in accordance to all Federal, State and Local laws governing this project.

Protection of the Public and Others - All work will be done after hours with all work area's protected with proper control measures, which have been stated in the Activity Hazard Analysis section.

Specialized training and experience of employees - The following is our Biographics of Key Personnel:

Glen W. Smith, PE, CEI - Compliance Officer - USA Lights

Education -	University of Maryland B.S. - Environmental Engineering 1983
Certificates -	Haztrain, Inc. 40 hour Hazwopper 1992 16 hour Confined Space 1994 8 hour Pollution Prevention 1994 8 hour Construction Safety 1995 Certified Environmental Inspector 1995 24 hour Haz Waste Management 1995
Experience -	President USA Lights 1989 to 2002 Reinforced Earth Company - Vice President Engineering

Gaby G. Newmark - President - G&S Motor

Education -	University of Budapest, Budapest, Hungary B.S. - M.E. 1950
	Institute of Lenin, Moscow & Lenningrad M.A. - International Affairs & Economics 1954
Experience -	Philadelphia Transformer - President Transcanadian Trading Company - Manager Sales/Marketing

Amita Saha - Laboratory Manager

Education -	Burdwan University, Calcutta, India B.S. - Chemistry 1986
	New Mexico Highlands University, New Mexico M.S. - Chemistry 1990
Experience -	Northeast Labs, Inc. - Chief Analytical Chemist

Charles J. Ilsley, Jr. - Chemist / Environmental Engineer

Education -	Rutgers University, New Brunswick, New Jersey M.S.C. - Chemistry/Microbiology - 1978 B.S. - Chemistry - 1975
Experience -	Benjamin Moore & Company - Environmental Health and Safety SCA Chemical Services - Asst. Laboratory Manager

George A. Newmark - Project Manager

Education -	University of Hartford, Hartford Connecticut B.S. - Environmental Science 1997
Experience -	G&S Motor - Project Manger

Joe Leuzzi - Safety Officer

Education -	Rutgers University, New Brunswick, New Jersey B.S. - Environmental Science
Experience -	G&S Motor - Safety Officer

Gary Schwartz - CHI, CSP

Education -	New York University, New York, New York M.S. - Environmental Health 1980 Rutgers University, New Brunswick, New Jersey B.S. - Environmental Chemistry 1978
Certificates -	CHI, Comprehensive Positive CSP, Management Aspects
Experience -	20 Years in Safety/Occupational Health PHASE Associates Johnson & Johnson Nabisco Clayton Environmental

Tony Rosmaninho, Carlos Sempertequi, and Willie Lopez - Field Crew

Certificates -	40 hour Hazwopper Hazwaste Spill Response and Cleanup

Type of Protective Clothing - All employees working in the removal of PCB oil from transformers will be wearing, chemical tyvek suites, with foot covering, gloves and proper respiratory protection. All PPE will be disposed of in accordance to all local, state and federal laws.

Material Safety Data Sheets - No material will be stored on site all material will be put into vacuum trucks for transportation and final incineration/disposal this will take place at G&S Motor's facility in New Jersey. All waste will be transported via vacuum trucks to Safety Kleen in Deerpark, Texas for final incineration along with all PPE equipment.

Emergency Procedures for Handling Spills - A complete PCB spill kit will be on site during the loading of the transformers on to trucks provided by USA Lights. All transformers will be taken to G&S Motor's facility in New Jersey full. At the facility all transformers will be pumped into tankers and all oil disposed of at Safety Kleen. All transportation will be done by SJ Transportation. All employees take great caution in assuring proper connections of all pumping equipment prior to the release of any PCB material into tankers. G&S has a Spill Prevention Control and Countermeasure Plan (SPCC) and a Contingency Plan for Unplanned Release of Hazardous Waste and/or Hazardous Substances which is filed annually with all requisite local and regulatory agencies. The contacts for a spill are as follows:

- Tanker Spill 1-800-OIL-TANK
- General Spill - Clean Venture 1-800-368-8838

Interfacing with Trades and Subcontractors - This does not apply to our phase of the project, with exception to the final disposal of the full transformers. USA Lights will coordinate with the company rigging the transformers to assure that we have the proper truck on site for the final disposal of the transformers.

Identification of any required Analysis - All analysis on the PCB oil was provided by the customer. USA Lights will provide all required manifest paperwork for the transportation and all incineration/disposal certificates required by law.

Methods of Certification for Compliance - The above Plan of Action and the Work Plan along with the experience of the personnel on this project will assure complete compliance on this project. All required manifest and certificates of incineration and disposal will be provided to the customer. All companies working on this project are experienced in the removal and disposal of PCB contaminated material and have all required, licences and certificates of insurance.

USA *Lights*™

Environmental Preservation Associates, Inc.

REGULATORY INFORMATION SUMMARY

1. EPA INSTALLATION ID # **MDR-000002147**

2. US DEPARTMENT OF TRANSPORTATION MOTOR CARRIER ID NUMBER - **USDOT607724**

3. HAZMAT CARRIER # **HWH0551**

4. HAZMAT VEHICLE ID # **00A1209**

5. NON-HAZMAT HAULERS PERMIT # **0265**

6. MDE LETTERS

7. VIRGINIA HAZARDOUS WASTE TRANSPORTER # **MDR0000021475**

8. PENNSYLVANIA HAZARDOUS WASTE TRANSPORTER # **PA-AH-0596**

9. DELAWARE HAZARDOUS WASTE TRANSPORTER # **DE-HW-496**

S▾J TRANSPORTATION COMPANY
WOODSTOWN, NEW JERSEY

STATE WASTE PERMIT NUMBERS

Alabama - NJD 071 629 976A
Arizona - Fed. EPA No.
Arkansas - H-35 (PC-732)
California - 0655
Colorado - HMP-10018
Connecticut - CT-HW-107
Delaware - DE-HW-057
DE-SW-057
District of Columbia - Fed EPA No.
Florida - Fed. EPA No.
Georgia - (PCB's) - Numbers change yearly
Idaho - Fed. EPA No.
Illinois - 1052
Iowa - Fed EPA No.
Kansas - Fed. EPA No.
Kentucky - Fed. EPA No.
Louisiana - T943
Maine - Numbers change yearly
Maryland - HWH142
Maryland -(Medical)-SMH-015
Massachusetts - 189
Michigan - Solid-Fed. EPA No.
Liquid-Numbers change
Minnesota - 45053
Mississippi - Fed. EPA No.
Missouri - H-1469
Montana - Fed. EPA No.
Nebraska - Fed EPA No.
Nevada - NVT-PCB-013
New Hampshire - THN-0005
New Jersey - S03217
New Jersey (Solid)-DEP16092
New Mexico - Fed. EPA No.
New York - JA-044
N. Carolina - Fed. EPA No.
N. Dakota - Fed. EPA No.
Ohio - 162-HW
Oklahoma - 3112
Oregon - PUC-91NJ0620
Pennsylvania-AH0015
(Med)-Pennsylvania- PA-HC-0031
Rhode Island - RI-377
S. Carolina - Fed. EPA No.
S. Dakota - Fed. EPA No.
Tennessee - NJD 07-162-9976
Texas - 40349
Utah - Fed. EPA No.
Vermont-Numbers change yr.
Virginia - NJD0716299762
Washington - Fed. EPA No.
W. Virginia - Fed. EPA No.
Wisconsin - 11150
Wisconsin-(Solid)-12509
Wyoming - Fed. EPA No.
Ontario - MOEA 840169
Quebec - QC-6ML-035

2000 Fact Booklet

G&S Technologies is a division of G&S Motor Equipment Co., Inc., and has serviced the needs of the utility and industri industries for the past three decades, in the disposal of obsolete and scrap transformers (Non-Detectable, Non-PCB, PCI Contaminated and PCB) and other oil filled electrical equipment (including light ballasts, capacitors, regulators, oil circuit breake motors, etc.), as well as, the resale and/or rebuilding of surplus electrical equipment, G&S Technologies is the largest dispos facility of such equipment on the East Coast and maintains the only "scrap metal recovery oven" on the East Coast capable handling your drained PCB-contaminated equipment. Our facility is located in a heavily industrialized area in Kearny, New Jerse and is more than 2 miles from the nearest residential community. The facility is zoned as Light Industrial B and covers an area i excess of 3.5 acres. We are known as the "Transformer Disposal People" and can service ***all*** of your transformer and electric equipment needs (in addition to disposal) including:

- providing new and used transformers
- rebuilding used transformers
- replacing scrap and/or obsolete transformers

G&S Technologies cares about our environment and has developed a specialized technology in the disassembly and disposal o transformers (Non-Detectable, Non-PCB and PCB-Contaminated) and other oil filled electrical equipment which is not only environmentally acceptable, but also most economical. G&S Technologies offers the marketplace a Turnkey Arrangement including sampling, testing, pumping, transportation and disposal by incineration; a Rebuilding/Disposal Arrangement; Field Services; Remedial Services; and PCB Laboratory Services.

1. ***Turnkey Arrangement*** - G&S Technologies' professionals can perform ***all*** (or any combination) of the necessary tasks to remove and dispose of your obsolete or scrap transformers and other oil filled electrical equipment, including:

   a. ***Sampling and Testing*** - Skilled technicians will arrange for removal of oil samples from your transformers and other electrical equipment utilizing careful methods to avoid spills. All units are inspected to obviate small leaks. A spill plan and spill control equipment are always available at job sites. "State of the Art" gas chromatography testing technology by our NY & NJ state certified laboratory is utilized employing USEPA methods 608 and SW846-8082. Sample analysis results can be reported to you in a quickly as five (5) business days. Extremely urgent samples can be reported to you within hours.

   b. ***Segregation*** - Once test results are received, transformers are segregated into the following three categories based on PCB concentration:

Blue "X"	$\leq$ 49 PPM PCBs
Yellow "X"	50-499 PPM PCBs
Red "X"	$\geq$ 500 PPM PCBs

   c. ***Pumping, Repumping and Oil Disposal*** - All transformers over 49 PPM PCB are pumped empty of all free flowing oil directly into vacuum trucks for immediate disposal. In accordance with Generator's discretion, drained transformers are subsequently repumped to assure that the units are empty of all free flowing oil ***prior*** to its removal and transportation.

All G&S professionals are equipped on site at all times with spill control equipment. All oil transporters and oil disposal vendors utilized by G&S Technologies are experienced in the handling of mineral oil dielectric fluid (MODEF) (non-hazardous and/or hazardous) and maintain all requisite federal, state and local permits.

d. ***Transportation*** - G&S Technologies utilizes waste transporters (non-hazardous and/or hazardous) who are fu insured for pollution liability and/or general and automobile liability coverage's and carry MCS-90 endorsemen All vehicles utilized maintain all requisite federal, state and local permits for transporting hazardous and/or no hazardous waste. Drivers and personnel are trained in the handling of oil filled electrical equipment and in a pertinent regulations related to the transportation of such items. All transporting vehicles carry requisite sp prevention and control equipment and over-the-road spill prevention statements. G&S personnel will supervi: the loading and transporting of drained electrical equipment to the selected disposal facility.

The major portion of transportation of drained electrical equipment previously containing less than 500 PPM PC for G&S Technologies in the tri-state region is handled by J. Supor Trucking & Rigging Company, Harrison, N.. Supor trucking has been in operations for three decades and own 52 tractors, 106 trailers and 12 cranes (15-50 tons). The major portion of transportation for our Midwest customers is provided by J&J Transportation, Nev Portville, Pennsylvania. J&J has been in business for over 26 years and has 6 tractors and 12 trailers.

The major portion of transportation for our Southern and Canadian customers is provided by Schneide Specialized Carriers, Greenbay, WI, or Swift Transportation, Phoenix, Arizona.

G&S Technologies maintains a fleet of smaller vehicles used primarily for the transportation of tools anc equipment to job sites.

The major portion of transportation of PCB electrical equipment for G&S Technologies is handled by Tristate Motor Co., Joplin, Missouri and S-J Transportation Co., Woodstown, New Jersey.

All units weighing over 200 tons must be transported for disposal by barge via waterway. G&S Technologies utilizes the services of Weeks Marine, Union, NJ. Weeks Marine has been in operation since 1919 and owns barge cranes ranging between 100 and 750 tons.

e. ***Kearny facility (Scrap Metal Recovery Oven)***
As stated above, G & S owns and operates the only "scrap metal recovery oven" on the East Coast that meets all of the requirements of 40 CFR Part 761.72. Drained electrical equipment previously containing less than 500 PPM PCBs is brought to our Kearny facility, for disassembly and disposal. The cores of the transformers are placed in our scrap metal recovery oven subjecting it to a fire cleansing for purposes of removing incidental combustibles such as paper and wood (see discussion below - Incineration). The shells are thoroughly cleansed, which includes either placing absorbent speedy dry material on the inside shell or by incineration (depending on the PCB-concentration of the unit). Steel shells from PCB-contaminated units are by either placed in our scrap metal recovery oven or decontaminated to below 10 micrograms per 100 square centimeters. The cleansed shells of the transformers are bailed and sent to a steel mill; the copper and aluminum are similarly bailed and sent to a metal smelting facility; the residual dielectric fluid is collected and sent either to a USEPA approved chemical detoxification facility, blending facility or used as fuel at an "industrial furnace" (depending on the PCB level and generator discretion) and the used absorbent material is sent to a TSCA approved chemical landfill (see discussion below - Disposal of Debris). At the conclusion of this process, a Certificate of Disposal is issued to the Generator (see discussion below - Certificate of Disposal).

(i) ***Incineration (Scrap Metal Recovery Oven)*** - G&S Technologies operates an in-house "State of the Art" dual chamber "scrap metal recovery oven" (see attached permit) at our Kearny facility which is in full compliance with the requirements of 40 CFR Part 761.72 of the newly promulgated "Mega Rule" for the disposal of PCB's and is capable of burning all of your drained PCB-contaminated as well as, your non-PCB electrical equipment. Designed and constructed by Al-Jon United, Inc. of Topeka, Kansas, our furnace is gas operated with an afterburner operating temperature of over 2200°F, for the treatment of

your drained PCB-contaminated equipment. In addition, to further protect our environment, c incinerator is equipped with a special high temperature baghouse filtration system, manufactured by Te Air Incorporated of Shawnee Mission, Kansas, and a Continuous Emission Monitoring Syste manufactured by Nova Analytical Systems of Niagara Falls, N.Y. The CEMS continuously monitc carbon monoxide, carbon dioxide and oxygen from stack gases as well as critical temperatures ai pressures throughout the system. On August 21, 1998, we filed the requisite "notification of PC Activity" with the USEPA, notifying the USEPA of our scrap metal recovery oven. (See list attachments for a copy of our PCB notification). A copy of our New Jersey Air Pollution Control Perm and Table of Permitted Maximum Allowable Emission Rates are attached hereto. In addition, a lett from the NJDEP regarding the Non-applicability of Title V of the Clean Air Act to our operations attached hereto.

In the summer of 1997, Stack Testing was completed for our incinerator and on December 16, 1997, w received notification from the NJDEP that Stack Testing was successfully completed, in compliance wit the emission standards of our permit which meet the emission requirements of 40 CFR Part 761.72. (Se list of attachments for a copy of the NJDEP letter indicating our successful completion of complianc Stack Testing).

In 1997, we received an Air Pollution Control Permit from the NJDEP to modify and operate our olc incinerator (BNSR Log number 01-97-1759), as a back-up incinerator unit (up to 1100 operating hours). Extensive modifications have been made to the unit during the summer of 1997. In Spring of 1998, Stack Testing was completed for our back-up incinerator and on December 22, 1998, we received notification from the NJDEP that Stack Testing was successfully completed in compliance with the emission standards of our permit. (See list of attachments for a copy of the NJDEP letter indicating our successful completion of compliance Stack Testing). We are currently working with the NJDEP to modify our permit to allow us to burn up to 3000 operating hours per year.

(iii) ***Certificate of Disposal*** -

(i) ***Non-PCB and PCB Contaminated*** - Within 30 days of the disposal of your drained equipment at our facility, a Certificate of Disposal (or Certificate of Recycle) will be issued to the Generator recording all pertinent data, authenticated by document number, G&S corporate seal and signature of a G&S officer (see copy attached).

(iv) ***Disposal of Debris***

a. ***Liquid*** - Although most electrical equipment arriving at our Kearny facility is drained of all free flowing liquids, residual dielectric fluid (less than one inch) will emerge from the time of pumping until commencement of disassembly procedures. After a unit is opened, the core is lifted and any residual dielectric fluid is "vacuumed" into USDOT approved 55 gallon drums, which is subsequently handled in accordance with its original PCB concentration.

(i) ***≤49 PPM PCB*** - Dielectric fluid containing less than 50 PPM PCB is pumped from the USDOT approved 55 gallon drum into one of two above ground storage tanks. When the tank is full, a confirmatory sample is taken from the tank and tested for PCB's in our certified GC laboratory. The Non-PCB oil is vacuum pumped into a vacuum truck and it is transported for disposal. We utilize the following four vendors for the disposal of Non-PCB mineral oil: a) C.R. Warner, Inc., Yankee Point Terminal, PA. Warner is New Jersey's first licensed recycling facility which as been in business since 1938. Warner maintains a fleet of 25 oil trucks and maintains all requisite federal & state permits. The

oil is blended with other fuel stock for industrial incineration. b) Laidlaw Environmer Services (Tucker), Inc. (See discussion (ii) below), and c) Combined Heat & Power, I ("CHPI") in Rockville, Virginia. CHPI, is a cogeneration/independent power pl which operates an industrial boiler which is licensed by the Commonwealth of Virgi and permitted under T.S.C.A. to burn non-PCB fuel for energy recovery. Non-PC mineral oil is marketed through Ingenco, the operation and management company f CHPI. Non-PCB mineral oil is transported to CHPI by DSI Transport, Inc. , located Richmond, Virginia. d) Clean Water of New York, Inc. - Clean Water of New York, Ir is an environmental treatment facility providing a wide spectrum of land and mari based environmental services. Clean Water is permitted by the NYDEC to accept ar treat non-PCB mineral oil, which is sold as off -spec oil to commercial burners. No PCB mineral oil is transported to Clean Water by Depalma Oil Co., which is licensed b both New York and New Jersey to haul non-PCB mineral oil.

(ii) ***between 50-499 PPM PCB*** - Dielectric fluid containing between 50-499 PPM PCB i pumped from the USDOT approved 55 gallon drums which is stored in our berme "temporary" TSCA storage area inside our warehouse. Each drum is properly labele with PCB labels and accumulation start date in accordance with TSCA requirements When we accumulate 9 drums (approximately 450 gallons), the drums are vacuun pumped to a vacuum truck and transported for disposal. The transporter of this oil is S-. Transportation Co., Woodstown, New Jersey. S-J has been in the hazardous wast haulers business for 27 years and has a dedicated PCB-Contaminated tanker for our use The disposal facility for the oil is Laidlaw Environmental Services (Tucker), Inc formerly P.P.M., Inc. Laidlaw, which is now owned by Safety Kleen, has been in operation for 30 years, and maintains all requisite federal, state and local permits. The PCB's in the oil are destroyed by chemical detoxification by use of metallic sodium. All oil transported for disposal is manifested naming G&S as Generator.

b. ***Solids*** - Solid Debris (primarily oil absorbents and papers) from the clean-out of non-PCB transformer shells (which is over 90% of our inventory) is stored in a 20 yard roll-off container located at our Kearny facility. The container is transported to Waste Management's Grows landfill located in Morrisville, Pennsylvania. All other debris generated from the disposal process of PCB-contaminated transformers and all floor sweeping is treated as PCB-contaminated debris and disposed of as such. Our TSCA regulated debris (primarily oil absorbents, ash, paper, wood, floor sweeping and PPE) is stored indoors in a 20 yard roll-off container located at our Kearny facility. The container is transported to a TSCA approved chemical landfill for disposal approximately every 2 weeks. The transporter utilized by G&S is Horwith Trucking Co., Northampton, Pa. The chemical landfill utilized by G&S is owned and operated by CWM Chemical Services, Inc., Model City, N.Y. CWM Chemical Services, Inc. is a wholly-owned subsidiary of Chemical Waste Management, Inc. Chemical Waste Management, has been in operation for 20 years and maintains all requisite federal, state and local permits. All TSCA debris transported for disposal is manifested naming G&S as Generator. In addition to CWM Chemical Services, Inc., Model City facility, we also utilize Laidlaw Environmental Service's PCB landfill in Clive, Utah. Copper bearing incinerator ash is placed in gaylord boxes and forwarded to Noranda Horne facility, Rowyn-Noranda, Quebec Canada, which is a copper smelting facility. The copper ash is 100% recycled into copper anodes.

2. ***Lead Shielded Cable*** - (Non-PCB only) In addition to drained electrical equipment, we can process your Non-PCB lead shielded cable (PILC cable) at our lead cable stripping operation. We can also arrange for the testing of your PILC cable to determine the PCB concentration in accordance with approved EPA protocols. Reels of Non-PCB cable can be forwarded to our facility on a bill of lading for processing. The Non-PCB cable is placed in our specialized Non-PCB cable stripping

9. *Vendors Utilized by G&S to Dispose of Regulated By-Products*

Vendor	Regulated By-product	Disposal Option	Location
Laidlaw Environmental Services (Tucker), Inc.	Non-PCB MODEF, PCB Contaminated MODEF-PCB MODEF (Under 10,712 PPM PCB) /PCB MODEF (over 10,712 PPM PCB)	Chemical Treatment/ Incineration	Tucker, GA/ Aptus or Rollins
CWM Chemical Services, Inc.	PCB-Contaminated Solid Debris	Chemical Landfill	Model City, NY
Laidlaw Environmental Services (Lone and Grassy Mountain), Inc.	PCB Contaminated Solid Debris/PCB Solid Debris, PCB Transformers And Other electrical equip.	Chemical Landfill	Clive, Utah
Waste Management of Pennsylvania, Inc.	Non-PCB Debris	Sanitary Landfill-Grows Landfill	Morrisville, PA
Combined Heat & Power, Inc. (Ingenco)	Non-PCB MODEF	Industrial Boiler	Rockville, Virginia
Clean Harbors of Braintree Inc./ Laidlaw Environmental Services (Tucker), Inc.	PCB Lean Water	Carbon Filtration/ Incineration	Braintree, MA/ Aptus or Rollins
C.R. Warner	Non-PCB Modef	Blending For Industrial Incineration	Yankee Point terminal, Philadelphia, PA
Environmental Enterprises,Inc.	Baghouse Dust (Cadmium & Lead/ Lead Debris)	Macro Encapsulation and Landfill	Cincinnati, Ohio Detroit, Michigan

10. ***Employee Competence & Safety*** - G&S maintains a Safety Manual (with over 30 topics) and Standard Operating Procedures for the dismantling of transformers. All G&S personnel are thoroughly instructed and trained in the areas of safety, hazardous waste management and compliance. Employee training includes hazardous waste management, stormwater pollution prevention, U.S. D.O.T. Hazardous Material Safety, Hazard Communication, forklift safety operation, ladder safety, welding safety, lockout tagout, forklift inspection, fire extinguisher training, permit required confined space entry, personal protective equipment, respirator protection, Basic First Aid, Lead awareness & compliance, Electrical Safe Practices, Asbestos awareness, safe handling of compressed gas cylinders, safe rigging practices (chains, cranes, slings and hoists), crane safety fall prevention and hearing protection. We have engaged the services of Phase Associates, Livingston, N.J. to implement and maintain all aspects of our health and safety programs.

11. ***Statement of Capacity*** - G&S Technologies' capacity is estimated at 10 T/L (flatbeds/day); this translates to 100,000 transformers of various sizes/year. All transformers received in Kearny are disposed of within 30 days.

12. ***Environmental Compliance*** - In 1991,1996 and in 2000, we received surprise inspections from the Metro Bureau Enforcement of the NJDEP and we are proud to report that **NO VIOLATIONS** were cited at our facility at all inspections. (Copy of verification letters attached).

13. ***References*** - Listed below are names of representative utilities and environmental companies that we have annual contracts with, or on their approved vendor list:

Allegheny Power Systems
Atlantic Electric
Baltimore Gas & Electric
Boston Edison
Carolina Power & Light
Centerior Energy
Central Hudson Gas & Electric
Central Illinois Public Service
Cincinnati Gas & Electric
Clean Harbors
Commonwealth Edison
Commonwealth Electric
Consolidated Edison Co. of N.Y.
Consumer Energy
Delmarva Power
Duke Power
Eastern Utilities
Florida Power & Light
General Electric
General Public Utilities
Georgia Power
Long Island Lighting Company
Memphis Light & Gas
New England Electric
New York State Gas & Electric
New York City Transit Authority
Northeast Utilities
Northern Indiana Public Service
Ontario Hydro

Our laboratory has five gas chromatograph instruments with electron capture detectors for USEPA methods 608 and S 846-8082 to detect the lowest limits of PCBs in your samples. Samples analysis can be reported to you in as quickly as fi (5) business days. Extremely urgent samples can be reported to you in a matter of hours. See attached a copy of our Ne York State and New Jersey State Certifications.

8. ***Spill Control Plan*** - G&S has a Spill Prevention Control and Countermeasure Plan (SPCC) and a Contingency Plan f Unplanned Release of Hazardous Waste and/or Hazardous Substances which is filed annually with all requisite local an regulatory agencies.

machine, which enables us to separate the lead shield from the copper. The lead is manually removed from the cable an bailed and forwarded to a lead smelter. The copper is placed in our furnace for fire cleansing, bailed and forwarded t copper smelter. The oily paper is bailed and sent to a recycler for its copper content. All employees working with le shielded cable are properly trained and under our respiratory, lead medical monitoring Program (See attached flow chart disposal processing of PILC cable).

3. ***Rebuilding/Disposal Arrangement (Non-PCB only)*** - Expensive transformer replacement costs and restrictive budgeta constraints are predominant concerns among many utilities. As an alternative to the automatic disposal of all of yo "scrap" transformers, we offer a rebuilding service for your defective (but possibly repairable) Non-PCB transforme under our rebuilding/disposal arrangement.

   Once your Non-PCB transformers are segregated (see discussion above - Segregation), our skilled technicians can condu electrical TTR, Megger tests on core and coil and Dielectric Strength tests on the insulating oil in your Non-PC transformers and a determination can then be made whether to a) dispose of your unit or b) perform (i) minor repair, (i reconditioning, or (iii) rewinding. The units which are deemed irreparable will be transported to our Kearny facility fc disposal (see discussion above - Disposal). The repairable units will be earmarked for repair or remanufacture and will b transported directly to the rebuilding facility. Typical shop repair time will average 4 weeks and emergency shop repai time will average 1 week.

   Under our rebuilding/disposal arrangement, separate, unrelated facilities, which maintain expertise in their individua respective fields, will handle the disposal or the rebuilding of your transformers. Totally separate and unrelated facilitie obviates any suspicion (which is rampant in the industry) of rebuilders illegally utilizing "salvageable" parts from PCE equipment which, as you know ***must*** be properly disposed of under TSCA. The combination of both companies expertise will enable us to provide the marketplace with the highest quality repair and remanufacture or disposal services in the industry, in compliance with all federal, state and local regulations, at the most competitive prices.

4. ***Surplus/Evaluation Arrangement*** – Under this arrangement, you may ship to us untested undrained surplus transformers that are NOT DEEMED SCRAP for evaluation by us for potential rebuilding, resale or for use of spare parts or scrap. Once the units arrive at our facility, we will perform a GC Test by our certified laboratory to determine PCB level of the unit. Only units testing < 50 PPM PCB will be further evaluated for surplus value which may be resold, repaired, used for parts or scrapped in our incinerator, at our discretion. Units testing 50 ≥ 500 PPM PCB will be removed from service, drained of all free flowing liquids and the liquids will be "commercially stored" by us and disposed of at Safety Kleen (see Disposal of Debris) naming G&S as Generator. We are currently permitted to commercially storage up to 500 gallons of PCB waste at any one time. Once drained, the drained PCB-contaminated units will be disposed of in our scrap metal recovery oven (See incineration above). Units testing 499 PPM PCB and over will be removed from service, and disposed of by us at a licensed TSCA facility, naming us as Generator.

5. ***Gas Pipeline*** – In January 1999 our N.J. State permit was amended to allow us to process in our scrap metal recovery oven "untested" drained natural gas pipeline with a diameter of less than 4 inches and oil drained gas pipeline which tests to be less than 500 PPM PCB's (See attached N.J. D.E.P. Permit amendment dated 1/28/99).

6. ***Field Services Department*** - With the development of our specialized technology, G&S's Field Service Engineers are available for disposal of your scrap and/or obsolete transformers in all sizes. The largest unit, to date, that we have disposed of was 805,000 KVA (over 1,000,000 lbs. dry weight). Transformers can be dismantled at our facility in Kearny, NJ (described above) ***or*** at your site by one of our three specially trained field crews.

7. ***Laboratory Services*** - G&S Technologies can provide you with NY & NJ State Certified Laboratory services to test oil and water samples to determine PCB concentrations. G&S utilizes its in-house laboratory, Transformers Lab Services, Inc.

George A. Newmark - Sales & Marketing -

Education - University of Hartford
Hartford, Connecticut
B.S. - Environmental Science 1997

Joe Leuzzi- Safety Officer

Education- Rutgers University
New Brunswick, New Jersey
B.S.- Environmental Science

Gary Schwartz- CIH, CSP

Education- New York University
New York, NY
M.S.-Environmental Health, 1980

Fairleigh Dickenson University
Madison, NJ
MBA-Finance Marketing, 1988

Rutgers University
New Brunswick, NJ
B.S.- Env. Chemistry, 1978

Professional Experience: 20 Years in Safety/Occupational Health

- PHASE Associates-Livingston, NJ
- Johnson & Johnson-New Brunswick, NJ
- Nabisco -East Hanover, NJ
- Clayton Env. Consultants-Nori,MI

Certificates: CIH, Comprehensive Positive
CSP. Management Aspects

Zoltan S. Lefkovits - Secretary, Treasurer

Education - University of Debrecen - Debrecen, Hungary
B.S. - E.E. 1953

Professional Experience - Philadelphia Transformer,
Philadelphia, Pa. - Manager of Operations

EDSEL Division, Ford Motor Company,
Detroit, MI.
Distribution Systems
Engineer

Jay S. Spector - General Counsel

Education - Benjamin N. Cardozo School of Law, New York, NY
Juris Doctor - 1983

New York University School of Law, New York, NY
Candidate for L.L.M. - Taxation

Queens College - City University of New York, Queens, NY
B.A. Accounting - 1980, Magna Cum Laude

Professional Experience - LeBoeuf, Lamb, Leiby & MacRae, New York, NY
Associate

Touche Ross & Company, New York, NY
Tax Consultant

Professional Admissions - N.Y. State Bar - 1984
Federal Courts - Eastern and Southern
Districts of N.Y.

Jeffrey A. Lefkovits - Vice President Marketing

Education - Bernard Baruch College, City University of New York
New York, N.Y. - M.B.A. - 1991

Sy Syms School of Business, New York, N.Y.
B.A. - Business Administration 1989

Isaac Shmuts - Project Engineer

Education - Pratt Institute, Brooklyn, N.Y.
B.S. - Computer Science

Professional Experience - New York Daily News - New York, N.Y.
Project Coordinator

Tribune Company Syndicate, Inc. - New York, N.Y.
Manager Computer Operations

General Automation, Inc. - New York, N.Y.
Technical Support

Columbia Presbyterian Medical Center
New York, N.Y.
Systems Analyst

Brookdale Hospital - Brooklyn, N.Y.
Computer Programmer

Amita Saha - Laboratory Manager

Education - Burdwan University, Calcutta, India
B.S. - Chemistry 1986

New Mexico Highlands University, New Mexico
M.S. - Chemistry 1990

Professional Experience - Northeast Labs Inc. - Berlin, Ct.
Chief Analytical Chemist

Charles J. Ilsley, Jr. - Chemist / Environmental Engineer

Education - Rutgers University, New Brunswick, New Jersey
M.S.C. - Chemistry/Microbiology - 1978
B.S. Chemistry - 1975

Professional Experience - Benjamin Moore & Company, Newark NJ
Manager of Regulator Affairs
Environmental/Safety/Health

SCA Chemical Services/Chemical Waste
Management, Newark, NJ
Assistant Laboratory Manager

Orange & Rockland Utilities
Peco Energy
Pennsylvania Power & Light
PSI Energy
Public Service Electric & Gas
Public Service of New Hampshire
South Carolina Electric & Electric
Southern Indiana Electric & Gas
Tampa Electric
Tennessee Valley Authority
Texas Utilities
U.S. Department of Defense
USPCI/Laidlaw Environmental
Virginia Power

14. ***Insurance Coverage's*** - G&S maintains the following insurance coverages:

General Liability	$5,000,000/$5,000,000
Automobile	$1,000,000 Combined single limit
Workers' Compensation	Statutory
Pollution Liability	$3,000,000/$3,000,000

15. ***Biographies of Key Personnel***

Gaby G. Newmark - President

Education - University of Budapest, Budapest Hungary
B.S. - M.E. 1950

Institute of Lenin, Moscow & Lenningrad
M.A. - International Affairs & Economics 1954

Professional Experience - Philadelphia Transformer, Philadelphia, Pa
President

Transcanadian Trading Co., Montreal, Canada
Manager - Sales & Marketing

Index of Attachments

1. 12/22/95 NJDEP letter forwarding final conditions for Incinerator Permit #106086 and Table of Permitted Maximum Allowable Emission Rates.
2. Hudson Regional Health Commission - Certificate of Registration 0700650 (Metal Reclamation Furnace)
3. Letter from NJDEP regarding Non-Applicability of Operating Permit Program (Title V)
4. NJPDES General Permit No. NJ0088315 (Storm water Discharge Permit)
5. Flow Chart for Carcass Disposal
6. Flow Chart for PILC Cable Disposal
7. Sample Certificate of Disposal
8. Sample Certificates of Insurance
9. Letter from NJDEP - Most recent facility hazardous waste inspections (8/9/96 and 8/21/91)
10. Recommendation letter from Northeast Utilities
11. New York State Certification for PCB Laboratory
12. New Jersey State Certification for PCB Laboratory
13. Letter from Industrial Safety Services, Inc. Regarding Employee Health Exposures
14. December 16, 1997 letter from NJDEP-Notification of Satisfactory Compliance Stack Testing (scrap metal recovery oven).
15. December 22, 1998 letter from NJDEP-Notification of Satisfactory compliance stack testing (Back-up furnace).
16. August 21, 1998 "Notification of PCB Activity" filed with the USEPA.
17. January 28, 1999 amendment to certificate #106086 (Metal reclamation furnace) permitting the burning of natural gas pipeline in our scrap metal recovery oven.

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection
Bureau of Air Quality Engineering
Air Quality Permitting Program
New Jersey Department of Environmental Protection
CN 027
Trenton, NJ 08625

Robert C. Shinn, J
Commission

December 22, 1995

Mr. Jay Spector
General Counsel
G & S Technologies Division
G & S Motor Equipment Company
1800 Harrison Avenue
Kearny, NJ 07032

RE: Air Pollution Control (APC) Permit to Construct and Certificate to Operate Number 106086
Stack Designation: Reclaimer Furnace Stack

Dear Mr. Spector:

This concerns the referenced APC Permit and Certificate, which was initially approved on April 23, 1992. The APC Permit covers two Furnaces which process both drained transformer cores and wire cable. The Furnaces are controlled by an afterburner and a baghouse.

Attached are the final Conditions of Approval for the referenced APC Permit. These Conditions incorporate all of the modifications made to the initial set of Conditions, issued on April 23, 1992. The modifications include, but are not limited to, the specific inclusion of wire cable as a substance which may be processed and changes to the allowable mass emission rates. These changes were made to ensure consistency between the allowable mass emission rates and allowable mass emission concentrations.

If you have any questions, please call me at (609) 984-3019.

Sincerely,

Joel Leon

Joel Leon
Supervising Environmental Engineer
Bureau of Air Quality Engineering

c: I. Atay
MRO

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TABLE I

MAXIMUM ALLOWABLE EMISSION RATES

Contaminants*	Maximum Emissions	Averaging Time**	Notes
Total Suspended Particulates, lb/hr	1	ASCM	
gr/dscf at 12% carbon dioxide (CO_2)	0.[illegible]	ASCM	excluding the contribution of CO_2 from the auxiliary fuel, as tested by New Jersey test method for incinerators, including both wet and dry catches***
gr/dscf at 7% oxygen	0.03	ASCM	dry catch only
Sulfur Dioxide, lb/hr	2.08	ASCM	
Carbon Monoxide, lb/hr	0.95	ASCM	
ppmv at 7% oxygen, dry basis	50	ASCM	
ppmv at 7% oxygen, dry basis	500	Any ten minute period	
ppmv if the oxygen content exceeds 14%	25	ASCM	
Total hydrocarbons (as equivalent methane), lb/hr	0.25	ASCM	
ppmv, dry basis at 7% oxygen	25	ASCM	
ppmv if the oxygen content exceeds 14%	12.5	ASCM	
Hydrochloric Acid, lb/hr	1.23	ASCM	
Hydrogen Chloride, ppmv dry basis, corrected to 7% oxygen	50	ASCM	
Polychlorinated biphenyls, lb/hr	5.0E-5****	ASCM	

* - lb/hr - pounds per hour

gr/dscf - grains per dry standard cubic foot

ppmv - parts per million by volume

** - ASCM - Any sixty (60) consecutive minutes

*** - The contribution of carbon dioxide by auxiliary fuel shall be calculated based on the amount of auxiliary fuel combusted.

**** - 5.0E-05 is 0.00005

HUDSON REGIONAL HEALTH COMMISSION
P.O. BOX 1423
SECAUCUS, N.J. 07096-1423
201-223-1133 201-223-1177

January 1, 1996 - December 31, 2000

CERTIFICATE OF REGISTRATION FOR SOURCES OF AIR EMISSIONS

SECTION 1

GENERAL: SITE REGISTRATION # 0700650

ISSUED TO: SAME
ADDRESS: SAME
CITY:
STATE: ZIP

FOR PREMISES: G & S MOTOR EQUIPMENT I
ADDRESS: 1800 HARRISON AV
CITY: KEARNY
STATE: NJ ZIP 07032

SECTION 2

REFUSE/SALVAGE INCINERATION UNITS:
NUMBER OF UNITS: 2
REGISTERED BURNING TIMES: FROM _____ AM/PM TO _____ AM/PM
AUTHORIZED REPRESENTATIVE TO BE CONTACTED DURING OFF HOURS EMERGENCY:
NAME G. NEWMARK TEL. # 998-9244
PERMIT GRANTED DATE 1/1/96 DENIED

SECTION 3

FUEL BURNING UNITS

CATEGORY I - 500,000 TO 999,999 BTU
NUMBER OF UNITS:

CATEGORY II - 1,000,000 BTU & GREATER
NUMBER OF UNITS: 1

TOTAL UNITS: 1

THE FOLLOWING EMISSIONS OUTPUT HAS BEEN CALCULATED FOR THE FUEL BURNING SOURCES ON THIS CERTIFICATE:

SOURCE POTENTIAL POLLUTANTS		ESTIMATED ANNUAL POLLUTANTS	
BTU/HR.		LBS. SO_2/YR.	3
LBS. SO_2/HR.		LBS. NO_2/YR.	552
LBS. NO_2/YR.			69

For service or Emergency Contact: G. NEWMARK Tel. # 998-9244

SECTION 4

AIR CONTAMINATION SOURCES:

SOURCE TYPE: MANUFACTURING _____ DRY CLEANING _____
PROCESS _____ RETAIL GASOLINE _____
STORAGE/TRANSFER _____ OTHER _____

TOTAL 'A' SOURCES _____ TOTAL 'OTHER' SOURCES _____

TOTAL SOURCES _____

AUTHORIZED REPRESENTATIVE TO BE CONTACTED DURING OFF HOURS EMERGENCY:

NAME: _____ TEL. #: _____

SECTION 5

VALIDATION:

ISSUE DATE: 01/01/96

LICENSING OFFICIAL

Robert Ferraiuolo
COUNTERSIGNED

'DISPLAY COPY'

This Certificate must be maintained readily available on the operating premises.

State of New Jersey
Department of Environmental Protection
Office of Environmental Regulation
401 East State Street
2nd Floor
Trenton, New Jersey 08625-0027

Christine Todd Whitman
Governor

Robert C. Shinn, Jr
Commissioner

October 11, 1995

Mr. Gaby Newmark, President
G&S Motor Equipment Company Inc.
1800 Harrison Avenue
Kearny, New Jersey 07032

Re: G&S Motor Equipment Company Inc.
APC Plant ID# 10198

Dear Mr. Newmark:

This letter is in response to your request for a negative declaration from the Operating Permit Program requirements codified at N.J A.C. 7:27-22 for the Technologies Division of G&S Motor Equipment Company Inc..

Based on the information submitted to the Department, it has been determined that according to the criteria listed in N.J.A.C. 7:27-22.2, this facility is not subject to the Operating Permit Program requirements.

If circumstances or conditions concerning operation of the facility as they relate to equipment that emits air pollutants are different than stated, or change in the future you may need to re-analyze the applicability criteria to see if an operating permit will be required.

If you have any questions concerning the above information, please contact Dev Ganguly at (609) 292-1695.

Sincerely,

James Marinucci
Bureau of Operating Permits

c: Dev Ganguly
John Walsh
Carol Elsinger

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Bureau of Nonpoint Pollution Control
Division of Water Quality
New Jersey Department of Environmental Protection
PO Box 029
Trenton, New Jersey 08625-0029
(609) 633-7021, 292-0407

RENEWAL OF AUTHORIZATION TO DISCHARGE STORMWATER TO SURFACE WATER

Facility Name: G&S MOTOR EQUIPMENT CO INC

SWG: A-000181
NJPDES #: NJ0120065

Facility Address:
1800 HARRISON AVENUE

KEARNY

Permittee Under This Authorization
G&S MOTOR EQUIPMENT CO INC
1800 HARRISON AVENUE

KEARNY, NJ 07032

SIC Code: 5093

Type of Industrial Activity: SCRAP & WASTE MATERIALS

	Owner:	Operating Entity:
Name:	G&S MOTOR EQUIPMENT CO INC.	G&S MOTOR EQUIPMENT CO INC
Legal Address:	1800 HARRISON AVENUE KEARNY. NJ 07032	1800 HARRISON AVENUE KEARNY, NJ 07032

ISSUANCE DATE: 5/5/1997
EFFECTIVE DATE OF RENEWAL: 5/5/1997
EXPIRATION DATE: 1/31/2002

ORIGINAL AUTHORIZATION DATE: 4/13/95

Your authorization under NJPDES General Permit No. NJ0088315 has been renewed by the N.J. Department of Environmental Protection.

Date: 5/5/1997

Barry Chalofsky, P.P., Chief
Bureau of Nonpoint Pollution Control
N.J. Department of Environmental Protection

G&S MOTOR EQUIPMENT CO., INC.
FLOW CHART FOR CARCASS DISPOSAL
DRAINED NON-PCB & PCB CONTAMINATED CARCASS

(1) Transportation- J.Supor Trucking & Rigging Co.-EPA ID#NJD04635
- Schneider Specialized Carriers
- J&J Transportation- EPA ID# PAW100000025

(2) Disposal Facility - G&S Motor Equipment Co., Inc.
Kearny, New Jersey
EPA ID# NJD011370525

(3) Scrap for Metals Reclamation

--- disassembly & incineration at Kearny facility

Case	Coil	Residual Oil		PCB-Contaminated Debris	Non-PCB Debris	Incinerator Ash
		Non-PCB Oil	PCB-Contaminated Oil			(Recycled)
Steel Smelter	Copper & Aluminum Smelters	a) Combined Power &Heat, Inc. (Ingenco), Rockville, VA. or b) C.R. Warner Yankee Point Terminal, PA or c) Laidlaw Environmental Services (Tucker), Inc. Tucker, Georgia Chemical Treatment EPA #GAD980839187	Laidlaw Env. Services (Tucker), Inc. Tucker, Georgia Chemical Treatment EPA #GAD 980839187	a) CWM Chemical Waste Mgmt. Inc. Chemical Landfill Model City, NY EPA #NYD 049836679 or b) Laidlaw Environmental Services (Lone&Grassy Mtn.) Inc. Clive, Utah EPA # UTD 991301748	Waste Mgmt. of PA, Inc. (Grows) Sanitary Landfill Morrisville, PA EPA #PAD 000429589	Noranda Horne Rowyn-Noranda, Quebec, Canada

(4) Reclaimed Metals
(PCB-free)

Sale

(Copper)
Outokumpa
American Brass
Buffalo, NY

a) (Steel) or
Raritan River
Steel
Perth Amboy, NJ

b) (Steel)
Citi Steel Corp.
Claymont, Delaware

(Aluminum)
Alcoa Aluminum
Hawsville, WV

Raw Material in Commerce

G&S MOTOR EQUIPMENT CO., INC.
FLOW CHART FOR PILC CABLE DISPOSAL

(1) Transportation - J.Supor Trucking & Rigging Co. - EPA ID# NJD046353934

- J&J Transportation - EPA ID# PAW100000025

(2) Disposal Facility - G&S Motor Equipment Co., Inc.
Kearny, New Jersey
EPA ID# NJD011370525

(3) Scrap for Metal Reclamation
Disassembly at Kearny, NJ facility

Copper Paper	Lead Debris	Lead (Metal)	Copper(Metal)	Copper Ash
↓	↓	↓	↓	↓
(Bailed/Recycled) All Ports, Inc. Fontana, CA	Microencapsulates & Landfill	Bailed	Incinerated & Bailed	(recycled)
	↓	↓	↓	↓
	Environmental Enterprises Cincinnati,Ohio Detroit,Michigan	Victory White Metals Cincinnati, Ohio	Outokumpa American Brass Buffalo, New York	Noranda Horne Rowyn-Noranda Quebec, Canada

3830

G&S TECHNOLOGIES
A DIVISION OF G&S MOTOR EQUIPMENT CO., INC

DATE: _____

EPA ID# NJD011370525

Certificate of Disposal

THIS IS TO CERTIFY THAT THE LISTED NON-PCB CAPACITOR(S) RECEIVED AT **G & S Technologies Division**, Kearny, NJ ON _____ WAS DISPOSED OF AS OF _____ IN ACCORDANCE WITH 40 CFR 761 AND ALL APPLICABLE FEDERAL STATE AND LOCAL REGULATIONS.

SEE REVERSE SIDE FOR TRANSFORMER DESIGNATION

G & S Technologies Division

GENERATOR SAMPLE

ADDRESS _____

_____

BY _____

TITLE _____

SIGNATURE _____

1800 HARRISON AVENUE • KEARNY, NEW JERSEY 07032 • (201) 998-9244 • FAX (201) 998-3349
E-mail: gstech@worldnet.att.net • Web Site: http://www.gstechnologies.com

ACORD CERTIFICATE OF LIABILITY INSURANCE

ESR CK
GSTECH1

DATE (MM/DD/YY
07/06/0

PRODUCER

UNITED ASSURANCE, INC.
16-00 Pollitt Drive
Fair Lawn NJ 07410
Phone: 201-797-6600 Fax: 201-797-4455

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURERS AFFORDING COVERAGE

INSURER A: Gulf Insurance Company
INSURER B:
INSURER C:
INSURER D:
INSURER E:

INSURED

G&S Technologies
G&S Motor Equipment
1800 Harrison Ave, PO Box 493
Kearny NJ 07032

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
	GENERAL LIABILITY					
A	[X] COMMERCIAL GENERAL LIABILITY	GA0667516	07/04/00	07/04/03	EACH OCCURRENCE	$ 5,000,000
	[ ] CLAIMS MADE [X] OCCUR				FIRE DAMAGE (Any one fire)	$ 50,000
					MED EXP (Any one person)	$ 5,000
					PERSONAL & ADV INJURY	$ 5,000,000
					GENERAL AGGREGATE	$ 5,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER				PRODUCTS - COMP/OP AGG	$ 5,000,000
	[ ] POLICY [ ] PRO-JECT [ ] LOC				Emp Ben.	1,000,000
	AUTOMOBILE LIABILITY				COMBINED SINGLE LIMIT (Ea accident)	$
	[ ] ANY AUTO					
	[ ] ALL OWNED AUTOS				BODILY INJURY (Per person)	$
	[ ] SCHEDULED AUTOS					
	[ ] HIRED AUTOS				BODILY INJURY (Per accident)	$
	[ ] NON-OWNED AUTOS					
					PROPERTY DAMAGE (Per accident)	$
	GARAGE LIABILITY				AUTO ONLY - EA ACCIDENT	$
	[ ] ANY AUTO				OTHER THAN AUTO ONLY: EA ACC	$
					AGG	$
	EXCESS LIABILITY				EACH OCCURRENCE	$
	[ ] OCCUR [ ] CLAIMS MADE				AGGREGATE	$
						$
	[ ] DEDUCTIBLE					$
	RETENTION $					$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY				WC STATU-TORY LIMITS / OTH-ER	
					E.L. EACH ACCIDENT	$
					E.L. DISEASE - EA EMPLOYEE	$
					E.L. DISEASE - POLICY LIMIT	$
	OTHER					
A	Pollution Liab.	GA0667516	07/04/00	07/04/03	Per Claim	$3,000,000
					Aggregate	$3,000,000

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS

Certificate Holder is included as an additional insured on the above policies

CERTIFICATE HOLDER

Y ADDITIONAL INSURED INSURER LETTER

DWN3M1

SAMPLE

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

Vincent Romano

© ACORD CORPORATION 1988

NEW JERSEY MANUFACTURERS INSURANCE COMPANIES

New Jersey Manufacturers Insurance Company
New Jersey Re-Insurance Company
301 Sullivan Way
West Trenton, New Jersey 08628-3496
(609) 883-1300

CERTIFICATE OF AUTOMOBILE INSURANCE

We certify that we have issued an automobile insurance policy, as described below:

Insured:
G & S TECHNOLOGIES
1800 HARRISON AVE
PO BOX 493
KEARNY NJ 07032

Policy No. C 998320-6

Effective 07/22/2000

Expiring 07/22/2001

TYPE OF COVERAGE	LIMIT
Liability	$1,000,000 each accident
Comprehensive	
Specified Causes of Loss	
Fire & Theft	
Collision	

This certificate is issued for the information of:

Project:

- Fleet of autos including hired and non-owned autos.
- It is agreed that AYP ENERGY INC, MOMONGAHELA, POWER CO,POTOMAC EDISON CO and WEST PENN POWER CO &, ALLEGHENY ENERGY SERVICE are insureds for Liability insurance as described in Section II, Paragraph A.1.b. of the **Who Is An Insured** provision of the referenced policy but, inclusion of such interest does not increase the limits of our liability.
- This certificate does not amend, extend or otherwise alter the terms and conditions of insurance coverage contained in this policy.
- This certificate imposes no liability on us beyond that stated in the provisions of the policy described above. If we cancel the policy, at least 30 days notice will be mailed to you at the address shown.

Agent

Dated at West Trenton, N.J.

A-59 (6/95)
C0044

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOLID & HAZARDOUS WASTE ENFORCEMENT
Bureau of Hazardous Waste Enforcement - Metro
2 Babcock Place, West Orange, N.J. 07052
(201) 669-3900

August 30, 1996

Mr. Jay Spector
G&S Motor Equipment
1800 Harrison Avenue
Kearny, NJ 07032

Dear Mr. Spector:

Re: G & S Motor Equipment, Kearny, New Jersey

This office conducted a RCRA compliance evaluation inspection at your facility, referenced above, on August 9, 1996. As a result of this inspection, no violations of NJAC 7:26-1.1 et. seq. were found.

Please be advised that your facility is under the continuing obligation to comply with all federal and state rules regarding the management of hazardous waste. If you have any questions, please direct them to Robert Agnew at (201) 669-3900.

Sincerely,

Jeffrey A. Sterling
Acting Section Chief

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
METRO BUREAU OF REGIONAL ENFORCEMENT
2 BABCOCK PLACE
WEST ORANGE, NEW JERSEY 07052

(201) 669-3900

November 15, 1991

Mr. Jay S. Spector
G&S Motor Equipment Company, Incorporated
1800 Harrison Avenue
Kearny, NJ 07032

Re: Letter Dated October 22, 1991

Dear Mr. Spector:

This letter is written in response to your letter to me dated October 22, 1991 concerning a site inspection that our office conducted at your facility on August 21, 1991. I have attached a copy of our inspection report which details our observations during the inspection. No violations of N.J.A.C. 7:26-1.1 et seq. were observed during the subject inspection.

Please feel free to call me at (201) 669-3900 if you have any questions about this response.

Very truly yours,

Jeffrey A. Sterling
Acting Section Chief
Metro Bureau of Water and
Hazardous Waste Enforcement
Field Operations

E41:G25

c: Peter T. Lynch
BHWE
File

Enclosure

New Jersey is an Equal Opportunity Employer

Northeast
Utilities System

107 Selden Street, Berlin, CT 06037

Northeast Utilities Service Company
P.O. Box 270
Hartford, CT 06141-0270
(203) 665-5000

May 16, 1995

Mr. Gabby Newmark
G&S Technologies
1800 Harrison Avenue
Kearny, NJ 07032

Dear Gabby:

I would like to extend my thanks and appreciation to you and your staff on behalf of the NU personnel who attended your Open House on May 11th. Your courteous hospitality was very much appreciated by all.

It is very apparent that your new facilities have met your goals of increased efficiency while maintaining a high level of environmental stewardship.

As the future unfolds, we look forward to a continuous business relationship with G&S Technologies. Again, our thanks.

Sincerely,

Terry

Terry Erk, Manager
Generation Purchases

/jtc

NEW YORK STATE DEPARTMENT OF HEALTH

ANTONIA C. NOVELLO, M.D., M.P.H. Commissioner

Expires 12:01 AM April 1, 20
ISSUED April 1, 2000
REVISED July 15, 2000

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

Lab ID No.: 11446

Director: MS. AMITA SINGH
Lab Name: TRANSFORMER LABORATORY SERVICES INC
Address : 1800 HARRISON AVENUE
KEARNY NJ 07032

is hereby APPROVED as an Environmental Laboratory for the category

ENVIRONMENTAL ANALYSES NON POTABLE WATER

All approved subcategories and/or analytes are listed below:

Polychlorinated Biphenyls (ALL)

Serial No.: 107434

Wadsworth Center

Property of the New York State Department of Health. Valid only at the address shown.
Must be conspicuously posted. Valid certificate has a red serial number.

DOH-3317 (3/97)

NEW YORK STATE DEPARTMENT OF HEALTH

ANTONIA C. NOVELLO, M.D., M.P.H. Commissioner

Expires 12:01 AM April 1, 2
ISSUED April 1, 2000
REVISED July 15, 2000

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

Lab ID No.: 11446

Director: MS. AMITA SINGH
Lab Name: TRANSFORMER LABORATORY SERVICES INC
Address : 1800 HARRISON AVENUE
KEARNY NJ 07032

is hereby APPROVED as an Environmental Laboratory for the category

ENVIRONMENTAL ANALYSES/SOLID AND HAZARDOUS WASTE

All approved subcategories and/or analytes are listed below:

Polychlorinated Biphenyls (ALL)

Serial No.: 107435

Wadsworth Center

Property of the New York State Department of Health. Valid only at the address shown.
Must be conspicuously posted. Valid certificate has a red serial number.

DOH-3317 (3/97)

STATE OF NEW JERSEY

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certifies That

TRANSFORMER LABORATORY SERVICES, INCORPORATED

(Laboratory Name)

09004

(Laboratory I.D. Number)

having duly met the requirements of the

Regulations Governing The Certification Of
Laboratories And Environmental Measurements N.J.A.C. 7:18 et.seq.

is hereby approved as a

State Certified Environmental Laboratory

To perform the analyses as indicated on the Annual Certified Parameter List which must accompany this certificate to be valid

Expiration Date: June 30, 1999

Joseph F. Aiello, Chief
Office of Quality Assurance

THIS CERTIFICATE IS TO BE CONSPICUOUSLY DISPLAYED AT THE LABORATORY WITH THE ANNUAL CERTIFIED PARAMETER LIST IN

INDUSTRIAL
SAFETY
SERVICES, INC.

LOSS PREVENTI
SAFETY SERVICE
SAFETY TRAININ
INVESTIGATIONS
SECURITY

Thursday, December 21, 1995

Jay Spector
G & S Technologies, Inc.
1800 Harrison Ave.
Kearney, NJ 07032

Dear Jay:

The following is a summary of the Industrial Hygiene Survey that was conducted on May 31, 1995 at the G & S Technologies facility located in Kearney, NJ. The purpose of the evaluation was to determine personal employee exposure to the following chemical parameters.

PCB's (Chlorodiphenyl),
Chromium Metals/Particulate,
Aluminum Metals/Particulate,
Copper Metals/Particulate

The results of the survey indicated that all personal exposures were below the Action Limits and Permissible Exposure Limits(PEL's), as established by the Occupational Safety and Health Administration(OSHA), Air contaminants 29 CFR 1910.1000 Subpart Z.

If you have any questions or further clarification is needed, please do not hesitate to call.

Sincerely,

INDUSTRIAL SAFETY SERVICES, INC.

Mick Ferry
Sr. Safety Specialist

P.O. Box 182 • Fairview Village, Pennsylvania 19409-0182 • (610) 630-9790 • FAX (610) 630-9791
P.O. Box 52 • Reading, Pennsylvania 19605 • (610) 372-3411
IndSafety@aol.com

State of New Jersey

Department of Environmental Protection

Christine Todd Whitman
Governor

Robert C. Shinn
Commissic

December 16, 1997

Mr. Jay S. Spector
G & S Technologies
1800 Harrison Avenue
P.O. Box 493
Kearny, NJ 07032

RE: Compliance Stack Emission Test Report
G & S Technologies - Kearny
APC ID No. 10198
NJ Stack No. 001
P/CT No. 106086
Log No. 01-91-2126

Dear Mr. Spector:

This Bureau has completed the review of the stack emission test report dated October 15, 1997 prepared by AirRecon for the compliance tests conducted on the above referenced source operation. The stack tests were conducted and the test report was submitted in accordance to the conditions of approval of the permit application.

Our review of the stack test results has indicated the following.

XX The test results indicated compliance with the emission standards stated in the permit application and/or permit approval conditions. We will notify the appropriate regional enforcement office of the status of this project.

A summary of the test results is being forwarded to the local regional enforcement office for final disposition. If you have any questions regarding our determination of the test results, please call me.

Sincerely,

Michael A. Klein

Michael A. Klein, Supervisor
Bureau of Technical Services

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Recycled Paper

State of New Jersey
Department of Environmental Protection

Christine Todd Whitman
Governor

Robert C. Shinn,
Commissio

December 22, 1998

Mr. Jay Spector
G & S Technologies
1800 Harrison Avenue
P.O. Box 493
Kearny, NJ 07032

RE: Compliance Stack Emission Test Report
G & S Technologies - Kearny
APC ID No. 10198
Log No. 01-97-1759

Dear Mr. Spector:

This Bureau has completed the review of the stack emission test report dated August 18, 1998 prepared by Air Recon for the compliance tests conducted on the above referenced source operation. The stack tests were conducted and the test report was submitted in accordance to the conditions of approval of the permit application.

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Sincerely,

Michael A. Klein

Michael A. Klein
Supervisor
Bureau of Technical Services

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Recycled Paper

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn
Commissio

Bureau of Air Quality Engineering
New Jersey Department of Environmental Protection
P.O. Box 27
Trenton, New Jersey 08625

January 28, 1999

Jay S. Spector
General Counsel
G&S Technologies,
G&S Motor Equipment Company, Incorporated
1800 Harrison Avenue
P.O. Box 493
Kearny, New Jersey 07032

Reference: Air Pollution Control (APC) Permit and Certificate Number 106086, Stack Designation: Reclaimer Furnace Stack

Dear Mr. Spector:

This concerns the referenced APC Permit Application, which was approved on April 23, 1992. It authorized the construction and operation of two Transformer Salvage Furnaces (TSF) used to process drained transformer cores and wire cables. The latest version of the Conditions of Approval was issued on December 22, 1995.

In an October 22, 1998 correspondence, a request was made to process drained natural gas pipelines containing polychlorinated biphenyls (PCB) in the TSF. The Department hereby allows drained natural gas pipelines to be processed in the TSF pursuant to the following Conditions:

1. The natural gas pipelines shall be drained of all free flowing liquids

2. The average PCB concentration of the condensate on the pipe's surface shall not exceed 500 parts per million by weight or 100 micrograms per hundred square centimeters. This shall apply no matter what the pipe's diameter is.

3. For pipes with a diameter of greater than four inches, the PCB content of the condensate shall be measured and recorded before the pipe is brought to the facility. These records shall be maintained on-site in a manner acceptable to the Metropolitan Regional Office for a minimum of five years and made available to Department personnel upon request.

4. Two out of every hundred batch of pipes with a diameter of less than or equal to four inches shall be sampled for PCB content. If any PCB readings exceed 500 ppmw or 100 micrograms per hundred square centimeters for either of the two pipes tested, twenty of the hundred pipes in the batch shall be sampled to confirm that the average concentration is less than 500 ppmw or 100 micrograms per hundred square centimeters. These records shall be maintained on-site in a manner acceptable to the Metropolitan Regional Office for a minimum of five years and made available to Department personnel upon request.

5. No more than 8000 pounds of pipe shall be processed per batch burn.

6. All pipe sampling and analysis procedures shall be done using standard USEPA SW-846 methodologies. A standard wipe test or Soxlet extraction procedure, as appropriate and necessary, shall be used.

7. This correspondence only permits the natural gas pipeline to be processed pursuant to N.J.A.C. 7:27. Other Federal, state, and local regulations may have to be complied with. This includes, but may not be limited to, the Federal Toxic Substances Control Act (TSCA) at 40 Code of Federal Regulations Part 761.

All other Conditions of Approval shall remain as written, shall apply, and are enforceable.

If you have any questions on the TSCA requirements, please call David Greenlaw, USEPA at 732-906-6817. If you have any general questions or wish to discuss any aspect of this matter, please call me at (609) 984-3019.

Sincerely,

Joel Leon

Joel Leon
Supervising Environmental Engineer
Bureau of Air Quality Engineering

c: J. Preczewski
M. Osvai, BES
MRO
D. Greenlaw, TSCA, USEPA

State of New Jersey

Department of Environmental Protection

Christine Todd Whitman
Governor

Robert C. Shinn, Jr.
Commissioner

December 16, 1997

Mr. Jay S. Spector
G & S Technologies
1800 Harrison Avenue
P.O. Box 493
Kearny, NJ 07032

RE: Compliance Stack Emission Test Report
G & S Technologies - Kearny
APC ID No. 10198
NJ Stack No. 001
P/CT No. 106086
Log No. 01-91-2126

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Sincerely,

Michael A. Klein

Michael A. Klein, Supervisor
Bureau of Technical Services

State of New Jersey
Department of Environmental Protection

Christine Todd Whitman
Governor

Robert C. Shinn, Jr.
Commissioner

December 22, 1998

Mr. Jay Spector
G & S Technologies
1800 Harrison Avenue
P.O. Box 493
Kearny, NJ 07032

RE: Compliance Stack Emission Test Report
G & S Technologies - Kearny
APC ID No. 10198
Log No. 01-97-1759

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Sincerely,

Michael A. Klein
Supervisor
Bureau of Technical Services

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Recycled Paper

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

December 22, 1998

Mr. Jay Spector
G & S Technologies
1800 Harrison Avenue
P.O. Box 493
Kearny, NJ 07032

RE: Compliance Stack Emission Test Report
G & S Technologies - Kearny
APC ID No. 10198
Log No. 01-97-1759

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Supervisor
Bureau of Technical Services

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Recycled Paper

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Bureau of Air Quality Engineering
New Jersey Department of Environmental Protection
P.O. Box 27
Trenton, New Jersey 08625

January 28, 1999

Jay S. Spector
General Counsel
G&S Technologies,
G&S Motor Equipment Company, Incorporated
1800 Harrison Avenue
P.O. Box 493
Kearny, New Jersey 07032

Reference: Air Pollution Control (APC) Permit and Certificate Number 106086, Stack Designation: Reclaimer Furnace Stack

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Sincerely,

Joel Leon

Joel Leon
Supervising Environmental Engineer
Bureau of Air Quality Engineering

c: J. Preczewski
M. Osvai, BES
MRO
D. Greenlaw, TSCA, USEPA

T.B.N. ASSOCIATES INCORPORATED

INDUSTRIAL • INSULATION • CONSTRUCTION
ASBESTOS REMOVAL

THERMATECH

COVER SHEET

FAX

DATE: 11/5/02

TO (company):

ATTN: Tim Sleeth

FAX NUMBER: 202 708 6618

TOTAL NUMBER OF PAGES *(including this cover sheet)*: 9

FROM: Lee Thomas

FAX NUMBER (301) 937-2513

COMMENTS:

Revised work plan with PCBs clean up Readdressed

If you have not received all of the pages, please call (301) 937-5544

☐ ORIGINAL DOCUMENTS TO FOLLOW BY MAIL

11262 OLD BALTIMORE PIKE • BELTSVILLE, MD 20705
PHONE (301) 937-5544 • (800) 876-9745
FAX (301) 937-2513

Asbestos and Polychlorinated Biphenyls Abatement Plan
New Executive Office Building
Federal Office Building No. 7
Washington, DC

Hazardous Material General Notes **Revised 11/5/02**

There are asbestos removal requirements associated with this project. The sprayed-on fireproofing at the ceiling of vaults number 1, 2 and the primary switchgear room are asbestos containing material (ACM). The underlying floor tile in vaults 1, 2 and 3 are ACM. Areas where the work is to be performed have been assessed and generally are free of lead-based paint (LBP). However, all personnel performing demolition, removal, and installation work will exercise caution and be alert of the possibility that LBP may be present in some of the work areas. Should TBN Associates, Inc. (TBN) suspect the presence of asbestos or LBP that may interfere with the work in any areas not identified on the drawings, TBN will stop work immediately and notify the contracting officer's representative. The housekeeping pads and concrete floors within the containment curbs are assumed to be polychlorinated biphenyl (PCB)-contaminated in all substation rooms. The transformers have had PCB oil leaks on the floors. To ensure the safety and health of the contractor, all substation rooms shall be assumed to have PCB-contaminated concrete within the transformer containment curbs. The General Notes in the drawing assume the floor tile is contaminated with PCB. However, the contracting officer stated during the walk-through that the floor tile will not be considered to be PCB-contaminated.

Asbestos Abatement Work Plan

This asbestos abatement work plan outlines procedures to be followed by TBN while conducting removal of ACM from the New Executive Office Building (NEOB), Federal Office Building No. 7, Washington, DC.

The removal will consist of floor tile and sprayed-on fireproofing from within three different transformer and switchgear rooms in the basement level of the NEOB. These three rooms will be divided into numerous manageable phases. All removal will occur within a negative pressure enclosure.

1.0 Removal of ACM from Within Asbestos Work Areas

The U.S. Environmental Protection Agency (EPA)-certified, District of Columbia-licensed asbestos abatement supervisor will review any available floor plans, emergency evacuation route diagrams, or other information related to appropriate emergency egress routes for all work areas on the site. An emergency egress route shall then be selected based on this information. The selected emergency evacuation route for each work area shall be communicated to the work force at the beginning of each shift and posted at the decontamination chamber. The asbestos abatement supervisor will review this abatement plan, the scope of work, and all appropriate contract documents before arriving on site.

The work crew will bring all equipment and materials on site and take these items and project waste off site using routes designated by the contracting officer. The project supervisor will submit material safety data sheets (MSDS) for all products brought on-site for pre-approval by the contracting officer prior to use.

2.0 Work Area Preparation

All removable furniture and equipment will be removed from the work areas before preparation activities begin. All heating, ventilation, and air conditioning (HVAC) supply and exhaust openings, doors, windows, and other penetrations into the work areas will be properly sealed with 6-mil polyethylene sheeting and duct tape. The work crew will maintain barriers intact daily until the entire project is completed and final clearance is achieved.

A decontamination chamber for each area of work will be constructed in an area approved by the project technical representatives [General Services Administration (GSA) appointed industrial hygienist]. All personnel entering the work areas will use proper personal protective equipment (PPE) and utilize the decontamination chamber upon exit from the work area.

Air filtration devices (AFDs) using high-efficiency particulate air (HEPA) filters will be set up in locations within the work areas that will maximize air flow and generate a negative pressure within the work area. The AFDs will be operated continuously throughout the removal project. A negative pressure of at least negative 0.03 inch of water column will be maintained within the work area until after final clearance.

Regulated areas will be established and demarcated in accordance with 29 Code of Federal Regulations (CFR) 1926.1101(e)(3) and 1926.1101(K)(6). The signs will conform to the format requirements of these Occupational Safety and Health Administration (OSHA) standards. The signs will read:

DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING
ARE REQUIRED IN THIS AREA

Work areas constructed for the removal of asbestos thermal system insulation will consist of mini-containments and/or full containments as the quantity and location of materials in each work area dictates.

3.0 Personnel Safety

In accordance with OSHA standard 29 CFR 1926.1101, the EPA-certified asbestos abatement supervisor will be designated as the "competent person" to oversee the asbestos abatement operations. The competent person will have the authority to

suspend operations if proper practices or regulations are not observed and maintained. Work will resume only after any situation is corrected.

Alternative control methods for Class I work will be approved and certified in writing by a licensed project designer in accordance with 29 CFR 1926.1101(g)(6).

During the removal phase of the project, and before final clearance air sampling, all personnel working inside of the work areas will wear the following PPE:

- full-body disposable coveralls with attached boots (Tyvek® or equivalent),
- disposable gloves, and
- National Institute of Occupational Safety and Health (NIOSH)-approved respiratory protective equipment with HEPA cartridges.

The respirators shall be selected to conform with the requirements of Table D-4 of OSHA standard 29 CFR 1926.1101, and shall be fit tested in accordance with OSHA standard 29 CFR 1910.134. Adjustments of the respiratory protective equipment will be permitted only inside the clean area within the decontamination chamber.

All employees involved in the removal of ACM will receive safety training in accordance with OSHA standard 29 CFR 1926.1101. The training curriculum provided will satisfy the requirements of the EPA's Model Accreditation Program and the regulations of the District of Columbia. If other contractors or trades people are working on the same job site, they will be notified that asbestos abatement operations are taking place, as required under OSHA standard 29 CFR 1926.1101.

4.0 Work Area Isolation

The asbestos removal work areas will be sealed by erecting barriers of 6-mil thickness polyethylene plastic sheeting at all entrances and exits. The plastic sheeting will be sealed with waterproof duct tape and spray adhesive. The decontamination unit will consist of three discreet chambers, each with an overlapping plastic door and a separation distance of at least three feet. The plastic sheeting used to construct the air locks will be weighted so that the sheets close quickly when released.

The walls in the full containment work areas will be covered with six-mil-thick polyethylene sheeting and secured with waterproof duct tape.

All plastic barriers in the work areas will be maintained daily throughout the project. At the beginning of each work period, the enclosures will be visually inspected and any damage or defects in the barriers will be corrected. Inspections will be made at least daily during the project to assure that the integrity of the barriers is maintained.

Special care will be taken when sealing HVAC equipment, lighting fixtures, and electrical panels. All electrical and HVAC items that can be taken off line should be prior to sealing with polyethylene sheeting. All critical barriers shall be installed and verified airtight. Live electrical panels shall be boxed out with wood framing prior to sealing with

polyethylene in order to keep the sheeting from close proximity to hot equipment, and to allow for air circulation.

5.0 Decontamination Chamber

Decontamination chamber units with a separate dirty/equipment room, shower room, and a clean room will be provided. Decontamination chambers will be directly attached to full containment work areas whenever feasible. Decontamination chambers will be located remotely, but as close as feasible to all other work areas. Asbestos-contaminated protective clothing will be removed in the equipment room (while still wearing respiratory protection) and will be bagged as contaminated waste. Respirators will be worn into the shower and will be cleaned and removed in the shower. All workers leaving the work area will take a shower.

6.0 Work Practices

When feasible, all ACM will be sprayed with amended water prior to and throughout the removal process. The wetting agent will be mixed in proportions consistent with the manufacturer's instructions. In this particular case, the work areas house high voltage equipment. The use of water will cause an unsafe work environment. The contractor shall obtain a variance to conduct dry removal of ACM.

Contaminated waste disposal containers will be placed in appropriate areas for use during removal. Damp rags will be used after the material is removed to assure that no visible residue remains.

As each section of the ACM is removed, the waste containers will have water sprayed inside to further control dust generation. All removed ACM and asbestos-contaminated disposal suits and other gear will be placed in approved disposal bags prior to transfer through the airlock system. The containers will be properly labeled in accordance with OSHA standard 29 CFR 1926.1101, and Washington, DC regulations. Labels will read:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

All removed ACM and asbestos-contaminated disposal suits and other gear will be placed in approved 6-mill thick opaque polyethylene disposal bags (double bagged and labeled), removed from the work area, and transported off site to a temporary or permanent disposal site at the end of the work shift or as approved by the technical representative.

After cleaning twice with a damp cloth, all surfaces having been in contact with asbestos will be treated with an encapsulant to permanently bind any remaining asbestos fibers and prevent their becoming airborne. All areas exposed to asbestos prior to the setup of the work areas will be wet cleaned and encapsulated.

7.0 Decontamination of Contaminated Materials and Personnel

Immediately following removal and containment of ACM, workers will remove sealed waste bags from the work areas (by way of the decontamination chamber if applicable). All non-disposable tools and equipment will be decontaminated prior to removal from the work areas. The waste bags will be properly disposed following work area final clearance. The AFDs will be thoroughly cleaned and decontaminated, and the filters shall be disposed as contaminated waste. All waste materials will be properly disposed in an EPA-approved waste site in accordance with all applicable federal and District of Columbia regulations.

8.0 Medical Exams

Employees involved in asbestos removal operations will be offered a comprehensive medical examination in accordance with OSHA standard 29 CFR 1926.1101 and its appendices. The medical examination shall include:

- an occupational history,
- determination whether the examinee smokes,
- respiratory history development,
- forced vital capacity test,
- forced expiratory volume (FEB-1) test, and
- chest x-ray (14- by 17-inch posterior/anterior).

The examining physician will certify in writing that the examined employee is capable of working while wearing a negative pressure facepiece respirator. If the physician discovers any respiratory problems, the employee will be removed from further asbestos-related work. Records of employee physical examinations will be maintained for a period of at least 30 years, in accordance with the requirements of OSHA standard 29 CFR 1926.1101 and 20 CFR 1910.20.

9.0 Equipment

The following equipment will be used during asbestos abatement operations.

- Water sprayer - an airless low pressure sprayer.
- Vacuum cleaner – a HEPA vacuum cleaner that meets applicable American National Standards Institute (ANSI) standards.
- Local exhaust system – AFDs equipped with HEPA filter stage that meets ANSI standards and OSHA requirements.
- Respirators – selection of respiratory protective equipment shall be dependent on the particular asbestos abatement operation and shall be approved by a Certified Industrial Hygienist (CIH).

10.0 Accident Prevention

Caution will be exercised at all times for the protection of persons (including employees) and property from hazards.

11.0 Air Monitoring

In accordance with OSHA standard 29 CFR 1926.1101, air monitoring will be conducted during the initial startup of all removal operations. The GSA industrial hygienist will conduct air monitoring and provide project oversight. Ambient air samples will be collected within the work area and outside the work areas in adjacent spaces. The contractor's industrial hygienist will perform exposure measurements. Exposure measurements will consist of personal monitoring representing the employees' eight-hour breathing zone exposure and 30-minute short-term exposure limit sampling.

Workers will at no time be exposed to eight-hour time-weighted average (TWA) breathing zone levels of asbestos fibers (longer than five microns with a three to one aspect ratio) in excess of 0.1 fiber per cubic centimeter (f/cc), or above 1.0 f/cc as a 30-minute short-term exposure, in accordance with OSHA standard 29 CFR 1926.1101. All air samples will be analyzed on site using the NIOSH 7400 Method or equivalent, and the analyses will be performed by laboratory analysts who successfully participate in the NIOSH Proficiency Analytical Testing (PAT) program.

Prior to releasing a regulated area, the industrial hygienist will perform a visual inspection for asbestos residue. After a satisfactory visual inspection, post-abatement clearance testing will be conducted in accordance with District Columbia regulations. The post abatement clearance samples requiring analysis using transmission electron microscopy (TEM) will be performed in accordance with District of Columbia regulations.

12.0 PCB Contaminated Paint Abatement Plan

All abatement activities will be performed in full compliance with applicable OSHA regulations (CFR 29 Parts 1910.1025, OSHA General Industry for Lead; 1926, OSHA Construction; 1926.62, OSHA Lead in Construction), applicable EPA regulations (40 CFR 260-299, EPA Resource Conservation and Recovery Act; and 40 CFR 300-399, EPA Comprehensive Environmental Response Compensation and Liability Act) and U.S. Department of Transportation (DOT) regulations 40 CFR 171-180: DOT Hazardous Material Regulations.

13.0 Work Activities

The primary project activity presenting a potential risk of exposure is the removal of PCB contaminated paint. TBN's EPA-trained abatement workers will perform this activity.

The paint removal will involve PCBs. The specifications indicate that the paint on the pads and curbs contains PCBs. These items may have come in contact with

small amounts of leaking oils and, therefore, are being removed as possibly PCB-contaminated.

TBN will have personnel trained in OSHA's 40-hour hazardous waste operations and emergency response (HAZWOPER) on site at all times. These trained personnel will be responsible for identifying and overseeing potential PCB hazards and wastes.

Paint removal will occur on designated areas of the concrete pads and floors and other components and equipment. During renovation, the building will be occupied. Abatement and/or demolition activities will comply with submittal information and precautions will be taken to protect building occupants and unaffected adjacent areas from exposure to contaminated dust.

TBN will remove the paint from the concrete pads and curbs by using "Peel Away," a chemical stripper, and/or by manual scraping. MSDS will be provided for all chemical removers proposed for use. The abatement crew will apply "Peel Away" using brushes and trowels. The areas adjacent to the application will be protected with polyethylene drop clothes. Workers will cover the applied "Peel Away" with paper and allow it to cure approximately 24 hours. After curing, workers will remove the paper and lead paint by hand. Residual paint will be removed by manual wet scraping or brushing. All "Peel Away"/paper waste, polyethylene, disposable suits, rags, and paint waste will be drummed for disposal as hazardous waste in accordance with EPA regulations. Open flame burning, dry scraping, and machine sanding without attached HEPA filtration methods will not be used at any time.

Before beginning paint or adhesive removal in any area, TBN will cover all surfaces that may accumulate dust or scrapings with six millimeter plastic sheeting taped securely in place. Barriers and coverings will be adequate to ensure that dust, debris, and fumes are contained within the work area and do not contaminate building surfaces. Warning signs will be placed at the entrance to work control areas. Exits and stairwells will not be blocked without the permission of the contracting officer.

Engineering controls including HEPA filtration units and wet removal methods also will be implemented for all paint removal activities. If painted surfaces will not be demolished but will be disturbed (drilled, cut, scraped), tools equipped with HEPA filtered vacuum systems will be used.

Surfaces in the control area will be maintained free of accumulations of paint chips and dust. Spread of dust and debris will be restricted. Dry sweeping or compressed air will not be used for cleanup. At the end of each work period, workers will HEPA vacuum and collect all debris to maintain surfaces free of paint chips and dust accumulation.

All paint removal wastes will be cleaned up and containerized daily. Wastes will be containerized in DOT approved 55-gallon drums for disposal off-site as hazardous wastes. Drums will be labeled and manifested in accordance with DOT and EPA disposal regulations. All waste containers will be properly cleaned and decontaminated prior to removal from the work area. TBN will dispose of this waste as PCB.

After painted surfaces have been striped of paint TBN will follow procedures for PCB clean up out lined in the drawing notes under "PCB clean up Double Wash / Rinse Method".

Step 1 Double wash /rise method: First wash using a detergent based cleaning solution (spic and span) thoroughly clean the entire striped area using a sturdy pad or brush, wipe up excess detergent, dispose of scrubbing devices and wipe up materials as PCB contaminated.

Step 2 First rinse using clean water; rinse entire striped area with pad and wipe surface dry. The wiping materials and collected solution shall be disposed of as PCB contaminated.

Step 3 Second wash using an organic solvent. Scrub surface with a sturdy pad or brush, wipe up solvent. All materials are to be disposed of as PCB contaminated.

Step 4 second rinse wipe the surface with the surface with a pad moistened with solvent, then wipe up with a dry pad. All materials are to be disposed of as PCB contaminated.

Let all washed /rinsed surfaces dry for minimum of 48 hours before application of paint. Painting is to be performed by others

TBN will provide a copy of each waste manifest to the contracting officer and designated facility contact at the time shipment is made. Within 30 days from when the hazardous waste treatment storage and disposal facility (TSDF) receives the waste, a completed copy of the manifest will be provided to the contracting officer and facility contact. Certificates of Destruction or Disposal will be provided to the same parties within 90 days of delivery of waste to the TSDF.

14.0 Worker Protection

All workers will use PPE and work practices while in the removal areas. All workers on the project will be participants in a medical surveillance program. This includes, but is not limited to, blood lead levels, ZPP, or FEP level sampling and analysis.

During all paint removal operations, at a minimum workers will use full-body Tyvek disposable suits, latex gloves, safety shoes, hard hats, safety glasses, and the appropriate level of respiratory protection. At a minimum, all workers will use half-face, air-purifying respirators (APR) with HEPA cartridges during all paint abatement activities.

Workers will use a decontamination chamber adjacent to the paint removal and abatement work areas. Worker decontamination will occur using HEPA vacuums to vacuum gross debris from disposable clothing and, at a minimum, workers will use hand soap and water to thoroughly decontaminate unprotected skin areas (e.g., hands and face). Workers are to use the decontamination facilities each time the work area is exited. Disposable coveralls will be placed in abatement waste on a daily basis after use.

T.B.N. ASSOCIATES INCORPORATED

INDUSTRIAL • INSULATION • CONSTRUCTION
ASBESTOS REMOVAL

THERMATECH

COVER SHEET

FAX

DATE: 11/5/02

TO (company):

ATTN: Tim Sleeth

FAX NUMBER: 202-708-6618

TOTAL NUMBER OF PAGES *(including this cover sheet)*:

FROM: Lee Thomas

FAX NUMBER (301) 937-2513

COMMENTS:

Revised work plan (again)

Lee

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FAX (301) 937-2513

Asbestos, Lead-Based Paint, and Polychlorinated Biphenyls Abatement Plan
New Executive Office Building
Federal Office Building No. 7
Washington, DC

First Addendum revision 1
Date: November 5, 2002

TBN will address the dry removal of asbestos-containing, spray-applied fireproofing from three vaults in the New Executive Office Building (NEOB), Federal Office Building No. 7, Washington, DC, in the following manner.

General Notes:

Because of the presence of high voltage electrical equipment, transformers and numerous electrical bus ducts, the use of water must be restricted during the removal process. In cases where there are electrical bus ducts running through the work area, TBN shall cover the bus ducts with a rubber membrane and seal it with water proof duct tape and spray glue. The transformers will have a frame built around them using scaffolding and fire rated plywood on top. The transformer protective box will than be wrapped with a rubber membrane and covered with 6 mill poly that will be sealed using spray glue and water proof duct tape. To prevent heat build up TBN will place the protective transformer box under a positive pressure with a Micro trap pulling clean cool air from the out side thur the transformer room vents. The transformer protective box will have 2 HEPA filters placed in the side of the protective box to let the pressure caused by the fan escape. TBN shall monitor the setup to ensure there is not an excessive build up of heat, which may compromise the equipment. Each vault is approximately 1000 square feet in size. Each vault will be divided into four separate work areas of approximately 250 square feet. TBN will establish a three-stage decontamination chamber for the removal of each work area.

Negative Pressure

At all times the negative pressure created with the high-efficiency particulate air (HEPA) filtration devices shall be no less than negative 0.03 inch (-0.03") of water within the containment. Each work area will have two HEPA air filtration devices installed within each containment. A third HEPA filtration device will be in place as an alternate in case the initial air devices do not work properly or achieve the required negative pressure. TBN shall inspect the integrity of the containment on a regular basis to ensure the increased negative pressure does not create an excessive burden on the construction of the containment.

Ventilation of Negative Air Exhaust

In cases where it is feasible, TBN shall exhaust the filtration devices outside the building using the transformer ventilation louvers in the vaults. In cases where ventilation louvers are not available, TBN shall exhaust into water baffles located outside the work areas. Water baffles shall be constructed of 55-gallon trashcans filled to half capacity with water. Where the flexible duct is attached to the trash can, TBN will cover the trash can with a modified pre-filter and secure the flexible duct with duct tape and spray glue. Where water baffles are used,

continuous air monitoring shall be performed. TBN shall continuously monitor the level of the water to ensure the water remains at half-capacity.

Removal Procedures

TBN shall remove the spray-applied fireproofing using hand scrapers. The material will be removed in small square foot sections. The material shall be scraped directly into bags and at no time be allowed to fall onto the ground. Abatement workers will work in teams of two workers; one worker shall scrape the material into the bag while the other worker holds the bag in place. When the bags are approximately one-quarter full, water will be added to the bag to sufficiently saturate the asbestos-containing material. Bags will then be closed and tied off with duct tape.

Asbestos, Lead-Based Paint, and Polychlorinated Biphenyls Abatement Plan
New Executive Office Building
Federal Office Building No. 7
Washington, DC

First Addendum
Date: November 1, 2002

TBN will address the dry removal of asbestos-containing, spray-applied fireproofing from three vaults in the New Executive Office Building (NEOB), Federal Office Building No. 7, Washington, DC, in the following manner.

General Notes:

Because of the presence of high voltage electrical equipment and numerous electrical bus ducts, the use of water must be restricted during the removal process. In cases where there are electrical bus ducts running through the work area, TBN shall cover the bus ducts with a rubber membrane and seal it with duct tape and glue. TBN shall monitor the setup to ensure there is not an excessive buildup of heat, which may compromise the equipment. Each vault is approximately 1000 square feet in size. Each vault will be divided into four separate work areas of approximately 250 square feet. TBN will establish a three-stage decontamination chamber for the removal of each work area.

Negative Pressure

At all times the negative pressure created with the high-efficiency particulate air (HEPA) filtration devices shall be no less than negative 0.03 inch (-0.03") of water within the containment. Each work area will have two HEPA air filtration devices installed within each containment. A third HEPA filtration device will be in place as an alternate in case the initial air devices do not work properly or achieve the required negative pressure. TBN shall inspect the integrity of the containment on a regular basis to ensure the increased negative pressure does not create an excessive burden on the construction of the containment.

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Removal Procedures

TBN shall remove the spray-applied fireproofing using hand scrapers. The material will be removed in small square foot sections. The material shall be scraped directly into bags and at

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T.B.N. ASSOCIATES INCORPORATED

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ATTN: Tim Sleath

FAX NUMBER: 202 708 6618

TOTAL NUMBER OF PAGES *(including this cover sheet)*:

FROM: Lee Thomas

FAX NUMBER (301) 937-2513

COMMENTS:

Addendum to work plan

Lee

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ATTN: Tim sleeth

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TOTAL NUMBER OF PAGES *(including this cover sheet)*: 2

FROM: Lee Thomas

FAX NUMBER (301) 937-2513

COMMENTS:

I'll send the work plan tomorrow

Is this drawing o.k.?

Lee

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GRUNLEY-WALSH

TRANSFORMER AND SWITCHGEAR REPLACEMENT
NEW EXECUTIVE OFFICE BUILDING

GSA, WHPO, Washington, D.C.
GS-11P98MQD0108 <> P-11-02-MA-0001
G-WJV Job #02-077

SUBMITTAL DATA

ASBESTOS ABATEMENT PROCEDURES & PCB ABATEMENT @ FLOORS

Contractor Qualifications (01), Plan of Action (02), Disposal Plan (03), GSA Asbestos Cntrl Permit (06), Cert. Of Compliance/Product Data (07), Info on Encapsulating Matl (MSDS) (08) and Laboratory Qualification Info (09)

Specification Section 02085

Subcontractor: **TBN Associates, Inc.**
Contact/Phone: **Lee Thomas 301-937-5544**

Please note the following Grunley-Walsh review comments:

1. This submittal addresses our subcontractor's scope of work which includes abatement of floor tile and floor paint.
2. EPA Notification and Local Government Notification will be submitted at least 10 working days before the start of the project.

Submittal No.: **02085-01, 02, 03, 06, 07, 08 & 09**
Specification Section **02085**
Contractor: GRUNLEY-WALSH JOINT VENTURE
TRANSFORMER AND SWITCHGEAR REPLACEMENT @ NEOB GS-11P98MQD0108
We hereby state that we have reviewed, inspected and checked
the information submitted and vouch for accuracy and compliance
with the Contract Documents and surrounding conditions, subject to the Owners approval.

Reviewed by: Rita A. Kalicka, PM
Date: 10/28/02

9343

94-940

TRACOR

Tracor Technology Resources, Inc.
1601 Research Boulevard
Rockville, MD 20850-3173
301 251-4911

Reviewed/Mailed
SEP 1 1994 T.S./WPXE
DC0105722
CAHOFILE: 940811

Project No.: 6486-012A
Serial No.: JG-94-082
ACT No.: P05554577

August 11, 1994

Ms. Normajean Eleazer
GSA, NCR, WPX, Room 2036
7th and D Streets, SW
Washington, DC 20407

Subject: PROGRESS REPORT XII - NEW EXECUTIVE OFFICE BUILDING

Dear Ms. Eleazer:

This is a progress report on the asbestos abatement project that occurred in the New Executive Office Building on the 3rd, 4th and 7th floors on 3/25-26, 4/15-17, 5/6-8, 5/13-15, 5/20-22, 6/3-5, 6/17-19, 7/8-10, and 7/29-31, 1994.

Personnel from Tracor Technology Resources, Inc. (TTR) monitored Retro Environmental, a licensed asbestos abatement contractor, removing approximately four hundred and five square inches of asbestos containing deck insulation, utilizing full containment procedures.

The Industrial Hygiene Consultant's responsibilities include conducting inspections of the worksite, assessing work practices, and collecting air samples. A total of one hundred forty three (143) air samples were collected. This project consisted of nine (9) start up, twenty-six (26) daily, nine (9) final and four (4) CIH inspection checklist reports.

The TTR Industrial Hygienist conducted daily air monitoring to determine work area fiber concentrations, and fiber levels outside the work area. In addition, the Industrial Hygienist conducted final inspections and clearance air testing. All final clearance air samples were below the required EPA level of 0.01 fibers per cubic centimeter (0.01 f/cc).

Air sample collection measurement and analysis followed the NIOSH 7400 Method A Rules. Air sampling pumps were calibrated both before and after collecting each sample set. Area samples were taken at ≥2.5 liters per minute, and all clearance samples were taken at 10.0 liters per minute.

Please find enclosed air sampling data, daily and final checklists, and all daily log notes.

If you should have any questions or need additional information, please call. We can be reached at (301) 251-4921.

Sincerely,

TRACOR TECHNOLOGY RESOURCES, INC.

Prepared by: _____
John Golombieski III
Industrial Hygienist

Technical Review: _____
Unhee Kim, CIH

JG:srp

Enclosures

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

05/12/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
6486012	104494	1	03/25/94	INS	VOIDED
6486012	104594	2	03/25/94	OUT	< 0.004
6486012	104694	3	03/25/94	OUT	0.019
6486012	104794	4	03/25/94	OUT	0.009
6486012	104894	5	03/26/94	INS	0.028
6486012	104994	6	03/26/94	OUT	< 0.005
6486012	105094	7	03/26/94	OUT	0.006
6486012	105194	8	03/26/94	OUT	< 0.006
6486012	105294	9	03/26/94	FIN	< 0.004
6486012	105394	10	03/26/94	FIN	< 0.004
6486012	105494	11	03/26/94	FIN	< 0.004
6486012	105594	12	03/26/94	OUT	BLANK= 0.00

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL L. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

05/12/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
6486012	105694	1	04/16/94	OUT	< 0.005
6486012	105794	2	04/16/94	OUT	< 0.005
6486012	105894	3	04/16/94	OUT	< 0.005
6486012	105994	4	04/16/94	OUT	< 0.005
6486012	106094	5	04/16/94	OUT	< 0.005
6486012	106194	6	04/16/94	INS	0.217
6486012	106294	7	04/16/94	OUT	< 0.005
6486012	106394	8	04/16/94	OUT	< 0.005
6486012	106494	9	04/16/94	OUT	< 0.005
6486012	106594	10	04/16/94	OUT	< 0.005
6486012	106694	11	04/16/94	OUT	< 0.005
6486012	106794	12	04/16/94	INS	0.009
6486012	106894	13	04/17/94	OUT	BLANK= 0.00
6486012	106994	14	04/17/94	OUT	BLANK= 0.00
6486012	107094	15	04/17/94	FIN	< 0.004
6486012	107194	16	04/17/94	FIN	< 0.004
6486012	107294	17	04/17/94	FIN	< 0.004
6486012	107394	18	04/17/94	FIN	< 0.004

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL L. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

05/12/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
6486012	107494	1	05/07/94	INS	0.019
6486012	107594	2	05/07/94	OUT	0.005
6486012	107694	3	05/07/94	OUT	< 0.004
6486012	107794	4	05/07/94	OUT	< 0.008
6486012	107894	5	05/07/94	OUT	< 0.004
6486012	107994	6	05/07/94	OUT	VOIDED
6486012	108094	7	05/07/94	INS	0.055
6486012	108194	8	05/07/94	OUT	< 0.003
6486012	108294	9	05/07/94	OUT	< 0.004
6486012	108394	10	05/07/94	OUT	< 0.004
6486012	108494	11	05/07/94	OUT	< 0.004
6486012	108594	12	05/07/94	OUT	< 0.004
6486012	108694	14	05/07/94	FIN	< 0.004
6486012	108794	15	05/07/94	FIN	< 0.004
6486012	108894	16	05/07/94	FIN	< 0.004
6486012	108994	17	05/07/94	FIN	< 0.004

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL L. EDWARDS
LABORATORY MANAGER

5/13-15/94

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

05/16/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
648601201	110194	01	05/14/94	OUT	< 0.00[illegible]
648601201	110294	02	05/14/94	OUT	< 0.00[illegible]
648601201	110394	03	05/14/94	OUT	< 0.00[illegible]
648601201	110494	04	05/14/94	INS	< 0.01[illegible]
648601201	110594	05	05/14/94	OUT	< 0.00[illegible]
648601201	110694	06	05/14/94	OUT	BLANK= 0.0[illegible]
648601201	110[illegible]94	0[illegible]	05/14/94	OUT	BLANK= 0.[illegible]
648601201	110894	08	05/14/94	OUT	0.01[illegible]
648601201	110994	09	05/14/94	FIN	< 0.00[illegible]
648601201	111094	10	05/14/94	FIN	< 0.00[illegible]
648601201	111194	11	05/14/94	FIN	< 0.00[illegible]

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL L. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES. INC.
ROCKVILLE. MARYLAND 20850

05/24/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
648601201	111294	01	05/21/94	OUT	< 0.005
648601201	111394	02	05/21/94	OUT	< 0.005
648601201	111494	03	05/21/94	OUT	< 0.005
648601201	111594	04	05/21/94	OUT	0.005
648601201	111694	05	05/21/94	OUT	0.20[illegible]
648601201	111794	06	05/21/94	OUT	BLANK= 0.06
648601201	111894	07	05/21/94	OUT	BLANK= 0.06
648601201	111994	08	05/21/94	INS	< 0.010
648601201	112094	09	05/21/94	OUT	< 0.007
648601201	112194	10	05/21/94	OUT	< 0.007
648601201	112294	11	05/21/94	OUT	< 0.007
648601201	112394	12	05/21/94	OUT	< 0.007
648601201	112494	13	05/22/94	FIN	< 0.004
648601201	112594	14	05/22/94	FIN	< 0.004
648601201	112694	15	05/22/94	FIN	< 0.004
648601201	112794	16	05/22/94	FIN	< 0.004

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL E. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

08/08/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
648601201	118094	01	06/04/94	OUT	< 0.005
648601201	118194	02	06/04/94	INS	VOIDED
648601201	118294	03	06/04/94	INS	< 0.005
648601201	118394	04	06/04/94	INS	0.371
648601201	118494	05	06/04/94	OUT	0.033
648601201	118594	06	06/04/94	OUT	BLANK= 0.00
648601201	118694	07	06/04/94	OUT	BLANK= 0.00
648601201	118794	08	06/04/94	INS	0.04[illegible]
648601201	118894	09	06/04/94	OUT	VOIDED
648601201	118994	10	06/04/94	OUT	< 0.004
648601201	119094	11	06/04/94	OUT	< 0.004
648601201	119194	12	06/04/94	OUT	< 0.004
648601201	119294	13	06/04/94	OUT	VOIDED
648601201	119394	14	06/04/94	FIN	< 0.004
648601201	119494	15	06/04/94	FIN	< 0.004
648601201	119594	16	06/05/94	FIN	< 0.004
648601201	119694	17	06/05/94	FIN	< 0.004

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY
MICHAEL E. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

08/08/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
6486012	148394	1	06/18/94	INS	VOIDED
6486012	148494	2	06/18/94	OUT	< 0.005
6486012	148594	3	06/18/94	OUT	< 0.005
6486012	148694	4	06/18/94	OUT	< 0.005
6486012	148794	5	06/18/94	OUT	< 0.005
6486012	148894	6	06/18/94	OUT	< 0.005
6486012	148994	7	06/18/94	INS	0.008
6486012	149094	8	06/18/94	OUT	< 0.004
6486012	149194	9	06/18/94	OUT	< 0.004
6486012	149294	10	06/18/94	OUT	< 0.004
6486012	149394	11	06/18/94	OUT	< 0.004
6486012	149494	12	06/18/94	OUT	< 0.004
6486012	149594	14	06/18/94	FIN	< 0.004
6486012	149694	15	06/18/94	FIN	< 0.004
6486012	149794	16	06/18/94	FIN	< 0.004
6486012	149894	17	06/18/94	FIN	< 0.004

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY

MICHAEL W. EDWARDS
LABORATORY MANAGER

PAGE 1 of 1

COC NUMBER 29574

PROJECT OR JOB SITE 6486012

CLIENT TRACOR

CONTACT JOE EICHENLAUB

AMA Analytical Services, Inc.

TRANSMISSION ELECTRON MICROSCOPY
ANALYTICAL RESULTS

DATE 6 / 17 / 94

SAMPLE TYPE AIR

ANALYSIS TYPE TEM

CLIENT's RELEASE CRITERIA 0.010s/cc

CLIENT ID	AMA ID	ANALYTICAL SENSITIVITY s/mm²	s/cc	f/cc	s/ft²	ASBESTOS # / TYPE	ASBESTOS CONCENTRATION s/mm²	s/cc	ng/m3	wt%	s/ft²
03		6	0.0023			0	<24	<0.0094			

ELECTRON MICROSCOPIST Luis Bustillos

AVERAGE CONCENTRATION: (AHERA use only)

NOTE: For AHERA samples, the response action is complete and no further analysis is needed if the concentration of the samples within the work area is less than or equal to 70 structures per mm² (s/mm²). If no asbestos structures are detected in a sample, the number zero (0) will be used when computing the asbestos concentration. If asbestos is detected in a sample, the actual concentration, in s/mm², is used. On the Certificate of Analysis, the reported concentration will be stated at a 95% upper confidence limit for samples which are at or below your stated release criteria.

THESE SAMPLES WERE ANALYZED BY TRANSMISSION ELECTRON MICROSCOPY. A CERTIFICATE OF ANALYSIS WILL BE SENT TO YOU BY MAIL. IF YOU HAVE ANY QUESTIONS REGARDING THIS ANALYSIS, CONTACT AMA ANALYTICAL SERVICES AT (800) 346-0961 or (301) 459-2640.

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

08/08/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
6486012	146694	1	07/09/94	OUT	< 0.005
6486012	146794	2	07/09/94	OUT	< 0.005
6486012	146894	3	07/09/94	OUT	< 0.005
6486012	146994	4	07/09/94	OUT	0.014
6486012	147094	5	07/09/94	OUT	< 0.005
6486012	147194	6	07/09/94	INS	VOIDED
6486012	147294	7	07/09/94	OUT	< 0.005
6486012	147394	8	07/09/94	OUT	< 0.005
6486012	147494	9	07/09/94	OUT	< 0.005
6486012	147594	10	07/09/94	OUT	0.006
6486012	147694	11	07/09/94	OUT	< 0.005
6486012	147794	12	07/10/94	FIN	< 0.004
6486012	147894	13	07/10/94	FIN	< 0.004
6486012	147994	14	07/10/94	FIN	< 0.004
6486012	148094	15	07/10/94	FIN	< 0.004
6486012	148194	16	07/10/94	BLK	BLANK= 0.00
6486012	148294	17	07/10/94	BLK	BLANK= 0.00

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY

MICHAEL L. EDWARDS
LABORATORY MANAGER

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

08/08/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
6486012	149994	1	07/30/94	INS	0.017
6486012	150094	2	07/30/94	OUT	< 0.005
6486012	150194	3	07/30/94	OUT	< 0.005
6486012	150294	4	07/30/94	OUT	< 0.005
6486012	150394	5	07/30/94	OUT	VOIDED
6486012	150494	6	07/30/94	OUT	< 0.004
6486012	150594	7	07/30/94	INS	VOIDED
6486012	150694	8	07/30/94	BLK	BLANK= 0.00
6486012	150794	9	07/30/94	BLK	BLANK= 0.00
6486012	150894	10	07/30/94	OUT	< 0.005
6486012	150994	11	07/30/94	OUT	< 0.005
6486012	151094	12	07/30/94	OUT	< 0.005
6486012	151194	13	07/30/94	OUT	< 0.005
6486012	151294	14	07/30/94	OUT	< 0.005
6486012	151394	15	07/30/94	FIN	< 0.004
6486012	151494	16	07/30/94	FIN	< 0.004
6486012	151594	17	07/30/94	FIN	< 0.004
6486012	151694	18	07/30/94	FIN	< 0.004

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY
MICHAEL L. EDWARDS
LABORATORY MANAGER

Tracor Technology Resources | **Air Sample Sheet**

Project # 6486.012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	104494	01	9215	2.5	—	—	500	—	—	—	—	—	—	—	—
A	Notes: INSIDE Containment 4th Floor Computer Room										VOID - FAULTED				
B	104594	02	23192	2.5	2.5	2.5	500	1245	465	1162.5	3	100	0	3	
B	Notes: OUTSIDE Critical Barrier STAIR WELL #2														
C	104694	03	791	2.5	2.5	2.5	500	1245	465	1162.5	45	100	0	45	
C	Notes: OUTSIDE Decon Entrance														
D	104794	04	937	2.5	2.5	2.5	500	1245	465	1162.5	21.5	100	0	21.5	
D	Notes: Outside Critical Barrier 4th Floor Computer Room														

Field Area: (Check One) ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

VOID

B

1			.5	
.5				
			1	

C

1	1	.5		
.5	1	2		1
.5	1			
1		1	.5	
	2	1	1	
	.5	1		.5
.5		1	1	
	1	.5		
1	2	.5	1	1
	.5		.5	
1	1	.5		
1		1		
1			.5	
		.5	1	1
1		1		.5
.5	1			
			.5	
.5	1	1		
		1	1	
	1			

D

.5				
	1	1		
			.5	
			.5	
1				1
1	1			
.5			1	
	.5	1		
			1	1
.5	.5			1
		1		
	1			
		1	1	
				1
.5	.5			
	1			

Joseph D Eichenbaum 3/25/94

FIELD TECH. DATE

Joseph D Eichenbaum 3/25/94

ANALYST DATE

Tracer Technology Resources — **Air Sample Sheet**

Project # 6486-012

1601 Research Boulevard
Rockville, Maryland 20850

		Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
104894	A	6486012	05	9231	2.5	2.5	2.5	0915	1615	420	1050	61	100	0	61	
	A	Notes: Inside Containment - 4th floor computer room														
104994	B	"	06	2313	2.5	2.5	2.5	1245	8:00	375	937.5	5	100	0	5	
	B	Notes: outside barrier - 4th floor stairwell #2														
105094	C	"	07	791	2.5	2.5	2.5	1245	7:10	325	812.5	~~5~~ 10	100	0	~~5~~ 10	
	C	Notes: outside decon - 4th floor														
105194	D	"	08	937	2.5	2.5	2.5	1245	7:05	320	800	3	100	0	3	
	D	Notes: outside barrier - inside 4th floor computer room														

Field Area: (Check One) ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre + Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{\text{(Net Count/100) x Filter Area}}{\text{Field Area x Volume x 1000}}$

A

2		1	1	
	2	1		1
1		1		2
	2			1
		1		
1			2	
		3		2
1	1		1	
		2		
	1			1
1		2		
	1			
	1		3	
				1
2		2		
	1		1	
			2	
1		5		1
			1	
3	2		2	

B

	1			
1				
		1		
	1			
			1	

C

1				
	1			
1				
		1		
			5	
	1			
1				
		1		
	1			
		1		
	1			

D

		1		
	1			
				1

Bernard Benson 3/26/94 FIELD TECH. DATE

ANALYST DATE

Tracer Technology Resources | **Air Sample Sheet**

Project # 6486012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	105294	09	Hi-Vol	10.0	10.0	10.0	930	1130	120	1200	1	100	0	1	
A	Notes: Final ensuite Computer Room 4th Floor														
B	105394	10	Hi-Vol	10.0	10.0	10.0	930	1130	120	1200	3	100	0	5	
B	Notes: Final ensuite Computer Room 4th Floor														
C	105494	11	Hi-Vol	10.0	10.0	10.0	930	1130	120	1200	5	100	0	5	
C	Notes: Final ensuite Computer Room 4th Floor														
D	105594	12											0		
D	Notes: BLANK														

Field Area: (Check One) ☐ .00785 ☐ .00801 ☐ .00754 ☐ .00817 ☐ .00724

Calculations: Mean Flow = $\frac{\text{Pre + Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{\text{(Net Count/100) x Filter Area}}{\text{Field Area x Volume x 1000}}$

A

1				

B

		1		
	1			
		1		

C

	1			
		1		
1				
	1			
		1		

D

[illegible] 3/24/92 — FIELD TECH. — DATE

[illegible] 3/24/92 — ANALYST — DATE

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB Project: 6486-012

Location: 4th Floor Computer Room Date: 3/25/94

Removal Contractor: RETRO Time Inspected: _____

Monitoring Contractor: TRACOR Time Work Started: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	YES(4)	
	f. Negative pressure > .02"	NA	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Matarial Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA 1/2 FACE PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Initial inspection passes

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: Joseph D Eikendal Date: 3/26/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: 6486-012

Location: 4th Floor Computer Room

Date: 3/25/94

Removal Contractor: Retec

Time Started: 7:00 Am

Monitoring Contractor: TRACOR

Time Stopped: 7:00 Am 3/26/94

Inspection Catagory	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	NA	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	4	
	f. Negative pressure > .03"	NA	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA 1/2 Face PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

no problems Encountered during the night Shift.

Report Prepared By: _____ Date: _____

Exhibit B

CIH Inspection

GSA approved. negative pressure waived for the computer room w/ drop ceiling

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: _____ Project: _____

Location: _____ Date: _____

Removal Contractor: _____ Time Started: _____

Monitoring Contractor: _____ Time Stopped: 4:45PM

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	y	
	b. Decontamination Curtains	y	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	y	
	e. "Negative air machine" in use	~~waived~~ yes	
	f. Negative pressure > .03"	but waived	
2. Signage	a. Caution Signs at vestibule entry.	y	
	b. OSHA SIGN (ASBESTOS)	y	
	c. Dumpster, ducts, drums, and bags labelled	~~n~~ y	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	y	
	b. Removed Material Promptly Bagged.	~~n~~ y	
	c. Debris Stored in removal area.	y	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	y	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	y	
	b. Proper NIOSH respirators.	Disp y HEPA y PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	y	
5. Showers	a. Functioning?	y	
	b. Soap and Towels?	y	
	c. Used Each Departure?	y	
6. Work Habits In Work Area	a. No Smoking	y	
	b. No Eating/Drinking	y	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 3/26/94

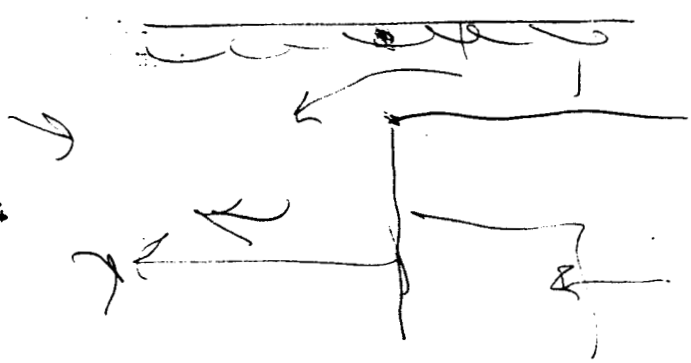


Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NeoB Project: 6486-012

Location: 4th Floor Date: 3/26/94

Removal Contractor: Retro Time Started: 0700

Monitoring Contractor: Tracor Time Stopped: 1900

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	waived by GSA	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	N/A	
	c. Debris Stored in removal area.	N/A	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No problems

Report Prepared By: B Hendle Date: 3/26/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: MFOB Project: 6486-012

Location: 4th Floor Computer Room Date: 3/26

Removal Contractor: Retro Time Started: 700 pm

Monitoring Contractor: Macon Time Stopped: 700 Am

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	NA	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	4	
	f. Negative pressure > .03"	NA	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	NA	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA 1/2 face PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No Problems Encountered

Report Prepared By: Joseph D Eichendorf Date: 3/26/94

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 64816-012

Location: 4th Floor Computer Room Date: 3/26/94

Removal Contractor: Pedro Time Inspected: 8:30

Monitoring Contractor: Maeer Time Completed: _____

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	NA	
	d. Ventilation Equipment.	NA	
(above eye level)	e. Horizontal surfaces.	NA	
	f. Pipes.	NA	
	g. Ductwork.	NA	
	h. Registers	NA	
	i. Lights.	NA	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	09	10	11		
Location:	INSIDE	INSIDE	INSIDE		
Volume (Liters):	1200	1200	1200		
Flow rate: (Liters/Minute)	10.0	10.0	10.0		
Fibers/Filter:	<0.01	3	5		
Fibers/Cubic Cm:	<0.01	<0.01	<0.01		

ANALYST ANALYZING SAMPLES: Joseph D Eichenlaub DATE: 3/26/94

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No problems Encountered

Report Prepared By: Joseph D Eichenlaub Date: 3/26/94

REPORT REVIEWED BY: Joseph D Eichenlaub DATE:

Page #_____

LOG SHEET

Date: 3/25/94

Project Number: 16486-012

Industrial Hygienist: Joseph D Eckenlaub

Abatement Contractor/Supervisor: RETRO/BOB

Time	Remarks
9:00pm	ARRIVED AT NEOB RETRO WORKERS
	ARE INSIDE the 4th Floor Computer Room
	Building the Containment
10:30	Workers take lunch
11:00	Workers building Containment - workers
	Can not Cover the Computer until @ 3:00
3:00	Computers are ~~[illegible]~~ turned off
	and AHU turned off also
	No problems workers continue to
	build the Containment
500	Electricians arrive Union light and
	Power starts being up light fixtures
6:00	Automatic arrives being down pipes
	from upstairs
6:30	No problems encountered Union light
	and power still being light up to the
	floor
7:00	No problems encountered Union light
	and power still being uplights

Page # 1

LOG SHEET

Date: 3/26/94

Project Number: 6486-012

Industrial Hygienist: Barry Hemler

Abatement Contractor/Supervisor: Retro / Bob

Time	Remarks
0700	light work continues on site to relieve night shift
0800	Sprinkler and light work continues, all fine
0900	Light installation continues inside pump room found flooded, replaced
	with new pump and sample, all else fine
1000	Work continues, all fine
1100	Light installation continues, all fine
1200	sprinkler workers on break, all fine
1245	switch out to second set of crews
1300	Work continues, all fine
1330	Sprinkler system ready for pressure test, Retro removing lights
1400	Continue removing lights from containment. all fine
1500	Sprinkler crew pulling up to leave most lights out of barrier
1600	Retro on break all light and sprinkler work done
	will start cleaning after lunch. CIH site visit
1700	Retro breaking down lights on landing dock no work in
	barrier at this time cleaning to begin around 1900
1900	done shift

Page #_____

LOG SHEET

Date: 3/26/94

Project Number: 6486-012

Industrial Hygienist: Joseph D Eichenlaub

Abatement Contractor/Supervisor: Petro / RCB

Time	Remarks
7:00	no problems all work completed
	Reto final cleaning
8:00	Petro almost completed with final
	clean-up
8:30	final visual inspection passes.
9:00	Petro encapsulates
9:30	final air samples set-up
	no problems encountered
11:30	Samples collected 12:00 final air
	samples pass <0.01 f/cc
	no problems encountered

Tracor Technology Resources | **Air Sample Sheet** | Project # 6.4.8.6.0.1.2

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	105694	01	23894	2.5	2.5	2.5	0545	1203	378	945	2.5	100	–	2.5	0.001
A	Notes: AREA – INSIDE 7103 – CRITICAL BARRIER														
B	105794	02	23953	2.5	2.5	2.5	0545	1203	378	945	4	100	–	4	0.002
B	Notes: AREA – INSIDE 7103 – CRITICAL BARRIER														
C	105894	03	23952	2.5	2.5	2.5	0545	1203	378	945	5.5	100	–	5.5	0.002
C	Notes: AREA – OUTSIDE OF DECON AREA														
D	105994	04	23119	2.5	2.5	2.5	0545	1203	378	945	6	100	–	6	0.003
D	Notes: AREA – ON TOP OF DECON – CRITICAL BARRIER														

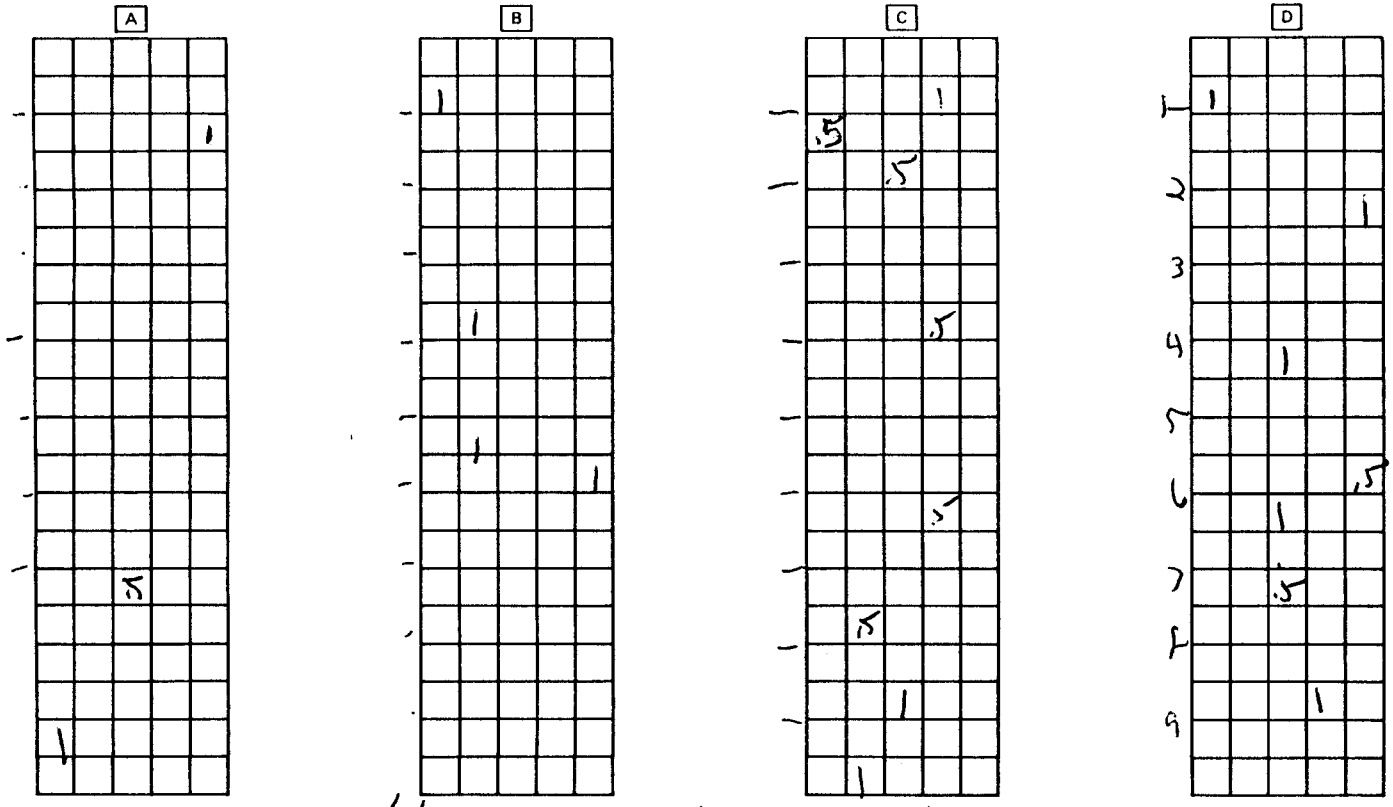
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



[illegible] 4/16/94
FIELD TECH. DATE

[illegible] 4/16/94
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6,4,8,6,0,1,2

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	106094	05	23949	2.5	2.5	2.5	0545	1200	375	937.5	0	100	—	0	<0.001
A	Notes: AREA – Stairwell #4														
B	106194	06	5112	2.5	2.5	2.5	0830	1205	215	537.5	107	45	—	238	0.2
B	Notes: Inside Sample – inside room 2026														
C	106294	07	83	2.5	2.5	2.5	1355	2045	410	1025	8.5	100	0	8.5	≤.005
C	Notes: AREA – outside door														
D	106394	08	41	2.5	2.5	2.5	1355	2045	410	1025	9	100	0	9	≤.005
D	Notes: AREA – hall 20' from door														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

B

2	3	3.5	5.5	2.5
3	2	4	5.5	2
4	3	—	2.5	3
—	2.5	2.5	3	2
1.5	2	2	3	2.5
5	2.5	3	—	1.5
1.5	1	2	.5	2.5
2.5	2	1	3	3.5
.5	2	1	3	2.5

16.5, 16.5, 12.5, 10, 11, 12, 7.5, 12, 9

8.5/100

C

		1		
				.5
			1	
				1
.5				
				1
		1		
	.5		1	
	1			

9/100

D

		.5		
				.
				.
			1	.
	1			
				.
				1
				.
				.
	1			1
				.5
				1
1			1	

FIELD TECH. 4/11/94 DATE

ANALYST 4/16/94 DATE

Tracor Technology Resources — Air Sample Sheet

Project # 6,4,8,6,0,1,2

1601 Research Boulevard
Rockville, Maryland 20850

		Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
106494	A	6486012	A9	2	2.5	2.5	2.5	1355	2045	410	1025	8.5	100	0	8.5	≤.005
	A	Notes: AREA – Inside 7103 @ entrance														
106594	B	"	A10	34	2.5	2.5	2.5	1355	2045	410	1025	4.5	100	0	4.5	≤.005
	B	Notes: AREA – Inside 7103 @ entrance														
106694	C	"	A11	12	2.5	2.5	2.5	1359	2045	406	1015	3	100	0	3	≤.005
	C	Notes: AREA – Stairwell #4														
106794	D	"	A12	5112	2.5	2.5	2.5	1402	1915	313	782.5	15	100	0	15	.009
	D	Notes: Inside Barrier														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

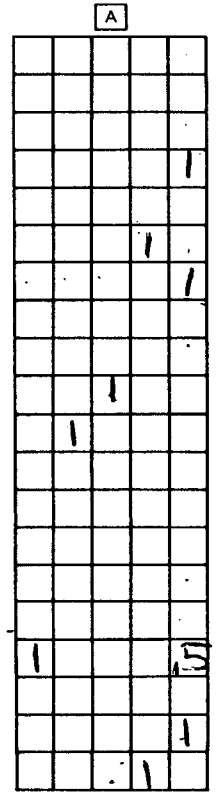
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

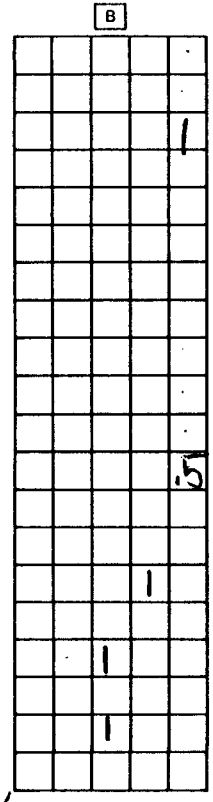
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

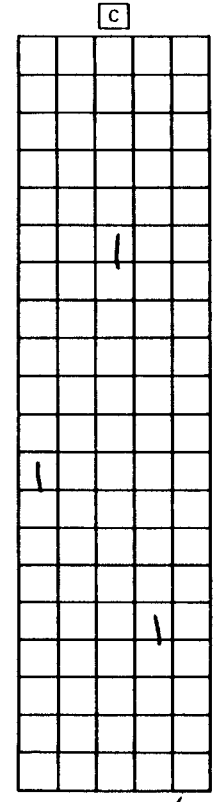
A: 8.5/100



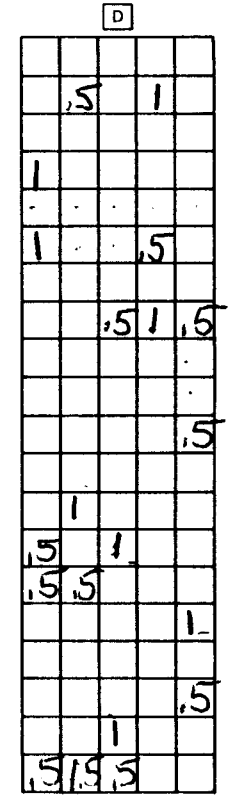
B: 4.5/100



C: 3/100



D: 15/100



FIELD TECH. 4/14/94 DATE

ANALYST 4/14/94 DATE

Tracor Technology Resources | **Air Sample Sheet**

Project # 6,4,8,6,0,1,2,

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	106894	13	—	—	—	—	—	—	—	—	0	100			
A	Notes: BLANK														
B	106994	14	—	—	—	—	—	—	—	—	0	100			
B	Notes: BLANK														
C	107094	15	7	10.0	10.0	10.0	2420	0220	120	1200	3	100	0	3	≤.003
C	Notes: FINAL AIR														
D	107194	16	10	10.0	10.0	10.0	2420	0220	120	1200	3	100	0	3	≤.003
D	Notes: FINAL AIR														

Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre + Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{\text{(Net Count/100) x Filter Area}}{\text{Field Area x Volume x 1000}}$

A: 0/100

B: 0/100

C: 3/100

D: 3/100

FIELD TECH. 4/14/94 DATE

ANALYST 4/14/94 DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6,4,8,6,0,1,1,2

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	107294	17	20	10.0	10.0	10.0	2420	0220	120	1200	3	100	0	3	≤.003
A	Notes: FINAL AIR														
B	107394	18	8	10.0	10.0	10.0	2420	0220	120	1200	4	100	0	4	≤.003
B	Notes: FINAL AIR														
C															
C	Notes:														
D															
D	Notes:														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

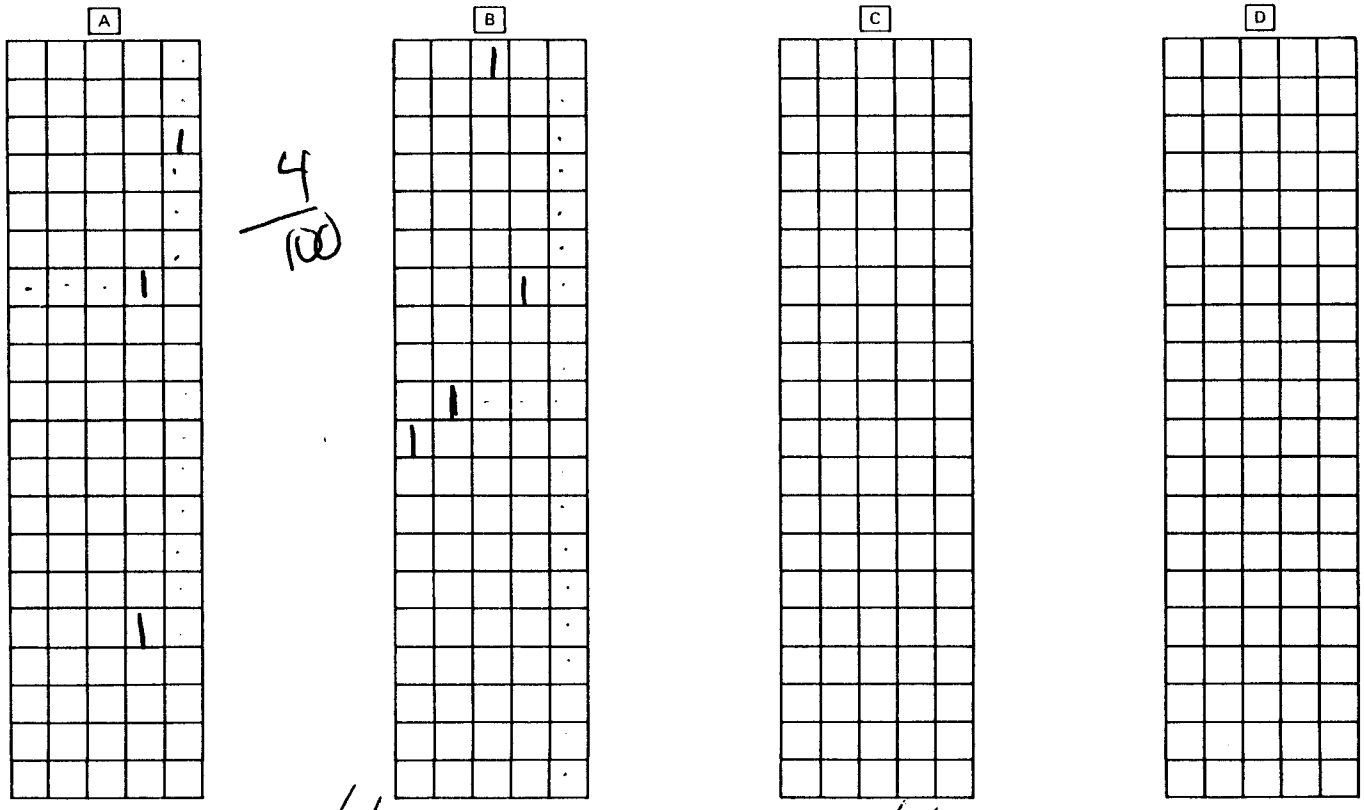
Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A: 3/100

B: 4/100



FIELD TECH. 4/17/94 DATE

ANALYST 4/17/94 DATE

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB Project: 6486-012

Location: 7th floor/NE Side Date: 4/16/94

Removal Contractor: Rotco Time Inspected: 0400

Monitoring Contractor: TRACOR Time Work Started: 0430

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. Seals around ducts, windows and doors	yes	
	d. Vertical and Horizontal Openings	yes	
	e. "Microtrap" in use	yes	
	f. Negative pressure > .02"	yes	
2. Signage	a. Caution Signs at vestibule entry.	NO	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: [signature] Date: 4/10/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: 64886-012

Location: 7TH FLOOR / NE SIDE

Date: 4/15/94 & 4/16/94

Removal Contractor: RETRO

Time Started: 1900 - 4/15/94

Monitoring Contractor: TRACOR

Time Stopped: 0700 - 4/16/94

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure ~~> .03"~~ ,02	yes	
2. Signage	a. Caution Signs at vestibule entry.	NO	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 4/15/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 7th Floor Date: 4/16/94

Removal Contractor: Retro Time Started: 0700

Monitoring Contractor: Tracor Time Stopped: 1700

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier		yes
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"		yes
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

* Poly in corners wont fasten dil numerous repairs over course of day.

* Neg pressure down to -0.016 was maintained

Report Prepared By: B Denson Date: 4/16/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: 6486-012

Location: 7TH Floor / NE Side

Date: 4/16/94 - 4/17/94

Removal Contractor: Retro

Time Started: 1900

Monitoring Contractor: TEACOR

Time Stopped: 0330

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimetar Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	NO	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure ~~> .03"~~ .02	yes	
2. Signage	a. Caution Signs at vestibule entry.	NO	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Matarial Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 4/17/94

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: C4826-012

Location: 7TH Floor / NE Side Date: 4/17/94

Removal Contractor: Retco Time Inspected: 2330

Monitoring Contractor: TRACOR Time Completed: 2345

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	yes	
	b. Horizontal Surfaces.	yes	
	c. Pipes.	N/A	
	d. Ventilation Equipment.	yes	
(above eye level)	e. Horizontal surfaces.	yes	
	f. Pipes.	N/A	
	g. Ductwork.	N/A	
	h. Registers	yes	
	i. Lights.	yes	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	15	16	17	18	
Location:					
Volume (Liters):	1960	1960	1960	1960	
Flow rate: (Liters/Minute)	10.0	10.0	10.0	10.0	
Fibers/Filter:	3	3	3	4	
Fibers/Cubic Cm:	≤.003	≤.003	≤.003	≤.003	

ANALYST ANALYZING SAMPLES: [signature] DATE: 4/26/94

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 4/26/94

REPORT REVIEWED BY: _____ DATE: _____

Page # 1

LOG SHEET

Date: April 15TH & 16TH

Project Number: 6486 - 012

Industrial Hygienist: Brower

Abatement Contractor/Supervisor: Retro Environmental / Ronald & Bob

Time	Remarks
1900 -	On Site with Retro / Work will Take Place on the
	7TH Floor S NE Side. This is a very large area.
	Retro has 9 Men on Site
2000 -	All of the Furniture is Out & Retro Besins to Poly the
	Floors & Run Double Sided Tape.
2100 -	Work Continues on Prep of the Containment.
2145 -	Retro Goes on Break.
2300 -	All of Floors are Completed & Most of Walls
2400 -	Retro Needs to Have electricians Move GFI Panner to
	Closer Electrical Closet.
0100 -	Retro Continues to Work on Walls
0200 -	Prep Continues on Containment
0300 -	Workers Putting the Final Touches on the
	Containment. Some Workers are Starting to
	Build the Decon.
0400 -	Conduct Pre-Abatement Inspection - I Found
	On Area that Needed Some More Tape.
0500 -	Retro Building Criticals Above the Ceilings At this
	time. UL&P Has a New Man & Has Not Been
	Fit Tested - I will Fit Test This Man Before
	He is Allowed Into the Containment
0600 -	Retro Finds Fit Test Tube & I Fit Test the
	New Worker
0700 -	Work Continues
0715 -	Barry Hamlin On Site
0745 -	Brower off Site

Page # 2

LOG SHEET

Date: 4/16/94

Project Number: 6486-012

Industrial Hygienist: B Hamler

Abatement Contractor/Supervisor: Retro / Bob

Time	Remarks
0700	Start of shift, MILLE reviewing areas, ceiling tiles being removed from barrier, some dust being inserted when loaded into [redacted] (hand), some debris on floor. Bob states he will clean it when tiles are out.
0730	Bob takes broom into barrier, told he can't use them, decides he will wrap it in towels to use it. To push together and gather ceiling tile debris inside barrier will wipe up debris outside barrier with wet tile
0800	All tiles removed from barrier, having floor rewiped of remaining debris from 1st wiping
0802-0816	Inside inspection, sprinkler/electrical work continues barrier coming down at 2 places, repaired. Outside area has been cleaned broom in barrier not yet wrapped but not being used
0824	-0.032" neg pressure, rest of electricians entering barrier
0830	Set up inside sample all fine
0900	Sprinkler coming out for break
0930-0940	Inside inspection, electric [redacted] light work continues Retro use of lights all fine, repaired part of fallen containment
0950	Sprinkler workers setting up
1012	Retro exit barrier all fine
1025	Electrician exit barrier
1100	Retro and electrician reenter
1115-1135	Inspection inside — 4 areas where screws are down, I fixed. Elec & sprink work cont'd. Retro cleaning lights also begins to send light out of barrier
1135	neg pressure — 0.020" neg pressure

Page # 3

LOG SHEET

Date: 4/16/94

Project Number: 6486-012

Industrial Hygienist: B Hensler

Abatement Contractor/Supervisor: Retro / Bob

Time	Remarks
1140	Electrician bring lighting wire out of barrier until it back in cor barrier.
1200	Pulled pumps for reading of 1st set.
1246	sprinkler workers on lunch
1300	sprinkler worker setting up electricians done for day, new CT being brought up. Almost finished analyzing samples
1310-1320	Safety meeting, reviewing proper behaviors
1345	set up second set of pumps
1402-1	put pump inside barrier and inspectors fixed two leaks
1413	neg pressure -0.016 talk Retro turned 2 machines on
1415	neg pressure -0.020
1500	we light at sprinkler wall continues
1530	neg pressure -0.020
1600	Sprinkler workers coming out on break with time
1700	Gravity shows up to begin CT replacement work
1720	Sprinkler crew decoring equipment (after being called)
1800	Continue loading CT into barrier, pressure test underway
1830	end of shift workers putting in ceiling tile turned off interior mint. tap since putting in tiles was increasing local pressure but @ manometer was 0.012" water, turned on pumps for show 0.02"
1900	end of shift

LOG SHEET

Date: April 16TH & 17TH 1994

Project Number: 6486-012

Industrial Hygienist: BROWER

Abatement Contractor/Supervisor: Retco/RONALD

Time	Remarks
1900-	On Site going over today's Work with
	Barry Hemler. Water test to be off At
	1945. Carly is Putting in Ceiling tiles while
	Water test is Being Performed - 2ND Retco
	SHIFT SHOULD BE IN AT 2000 Hrs
2000-	Tim With GSA tells us that water Test fell 10
	pounds in pressure - It must Now Run for Another
	2 Hours
2100-	Retco 2ND Shift On Site - They will
	FINE CLEAN THE AREA
2200-	Fine Cleaning continues
2330-	I Conduct FINAL Visual Everything Looks
	GOOD
2420-	FINALS HAVE Started
0220-	FINALS OFF
0300-	All FINALS PASSED
0330-	BROWER off Site

TTR PROJECT NO. 6202-028-90 6486-012-01
BUILDING ID NO. GSA-NEOB
PAGE 1 OF 1

TRACOR MICROSCOPY LABORATORY
BULK SAMPLE DATA SHEET

LAB ID NO.	% OF TOTAL SAMPLE	SAMPLE NO.	E	Q	- or -	ASBESTOS: CHRYSOTILE %	RI	B	EX	SE	DS	AMOSITE %	RI	B	EX	SE	DS	CROCIDOLITE %	RI	B	EX	SE	DS	OTHER %	RI	B	EX	SE	DS	OTHER FIBROUS MATERIAL %: MINERAL WOOL	FIBROUS GLASS	ORGANIC FIBERS	OTHER	NON-FIBROUS MATERIAL %: NON-FIBROUS PARTICULATE	OTHER	MORPHOLOGY
B9402187	100	CT-1																														70		30		TAN COMPACT CEILINGTILE, HOMO.

COMMENTS: SAMPLES ANALYZED USING POLARIZED LIGHT MICROSCOPY WITH DISPERSION STAINING OBJECTIVE
*NAFD - NO ASBESTOS FIBERS DETECTED - REPORTED AS - 1%

ANALYST: [signature] EMPLOYEE NUMBER: 12152
COMPLETION DATE: 4-19-94

CHAIN OF CUSTODY:	FROM	TO	DATE	FROM	TO	DATE	FROM	TO	DATE	FROM	TO	DATE	FROM	TO	DATE	FROM	TO	DATE
	ROBERT WELLS	[signature]	4-19-94															

TTR-ASB-4 (11-88) revised

ABBREVIATIONS: (II) - PARALLEL; (⊥) - PERPENDICULAR; MOD - MODERATE; HI - HIGH; LO - LOW; BL - BLUE; GD - GOLD; MA - MAGENTA; P - PALE; W - WHITE; Y - YELLOW; E - EMERGENCY SAMPLE; Q - QUALITY ASSURANCE SAMPLE

KEY: % - PERCENT; RI - REFRACTIVE INDICES; B - BIREFRINGENCE; EX - EXTINCTION; SE - SIGN OF ELONGATION; DS - DISPERSION STAINING COLORS

Tracor Technology Resources — **Air Sample Sheet**

Project # 6 4 8 6 0 1 2

1601 Research Boulevard
Rockville, Maryland 20850

		Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
107494	A	107494	01	12	2.5	2.5	2.5	4:09	1012	363	908	35	100			0.02
	A	Notes: 76 INSIDE Containment 7209 → 7225													
107594	B	107594	02	2	2.5	2.5	2.5	407	1130	443	1108	11.5	100			0.005
	B	Notes: 77 OUTSIDE Decon Unit Entrance													
107694	C	107694	03	83	2.5	2.5	2.5	414	1135	441	1103	0	100			<0.001
	C	Notes: 78 OUTSIDE Containment Stairwell #1 Between 8th + 7th Floor													
107794	D	107794	04	41	2.5	2.5	2.5	4:14	[illegible]	249	623	1	100			<0.001
	D	Notes: OUTSIDE Containment Critical Barrier Hallway Room 7206													

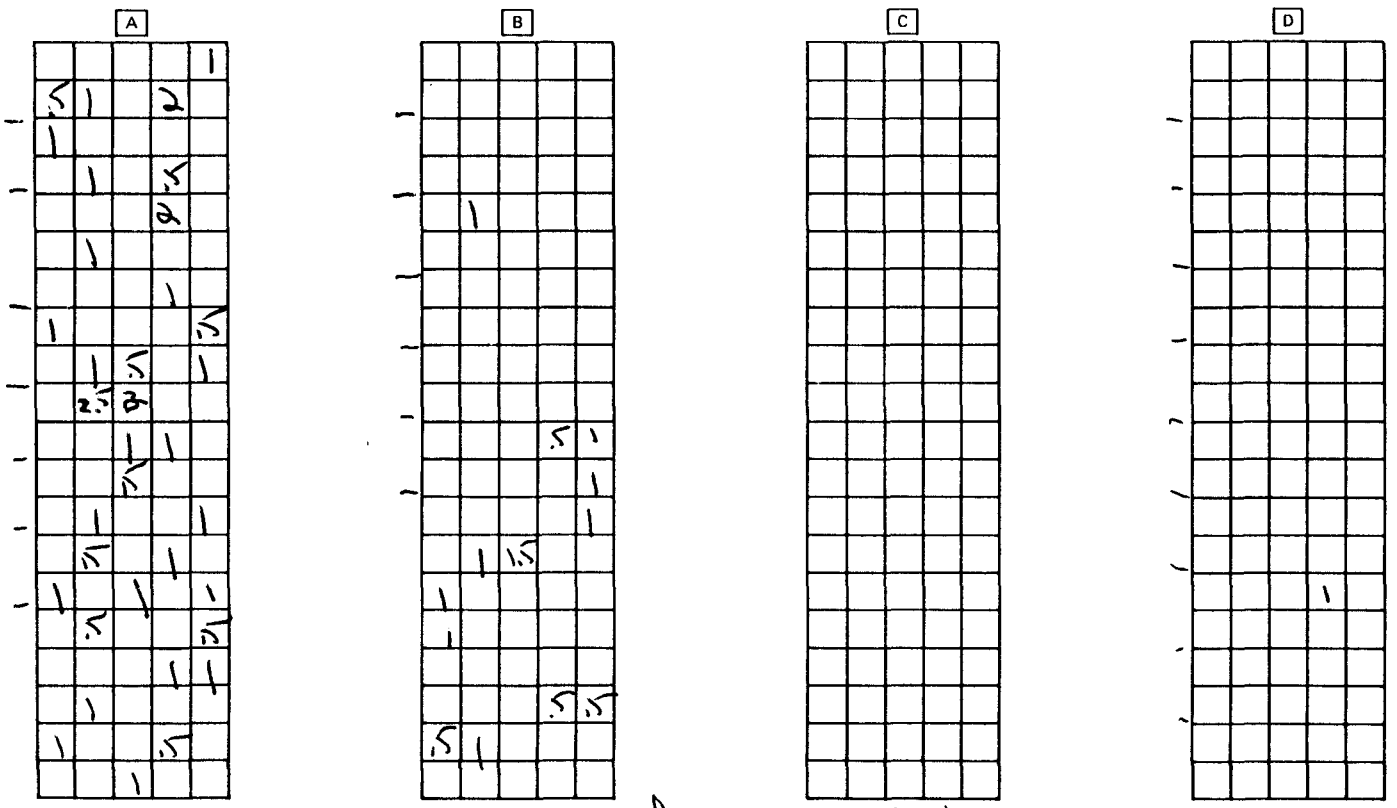
Field Area: (Check One) ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Joseph D Eidelauch 5/6/94
FIELD TECH. DATE

B Demler 5/7/94
ANALYST DATE

Tracor Technology Resources — Air Sample Sheet

Project # 6486.012

1601 Research Boulevard
Rockville, Maryland 20850

		Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
107899	A	107894	05	34	2.5	2.5	2.5	0416	1140	444	1110	35	100			0.002
	A	Notes: 80 outside critical barrier hallway 7230														
107994	B	107994	06	89	2.5	—	—	0417	finished	57	—	—	—	—	—	—
	B	Notes: 81 outside critical barrier 7224														
108094	C	108094	07	9234	2.5	2.5	2.5	1122	822	540	1350	61	100		61	
	C	Notes: 82 Inside containment 7209 - 7225														
108194	D	108194	08	922511	10	10.0	10.0	1607	7:07	180	1800	9	100		9	
	D	Notes: outside decon unit entrance														

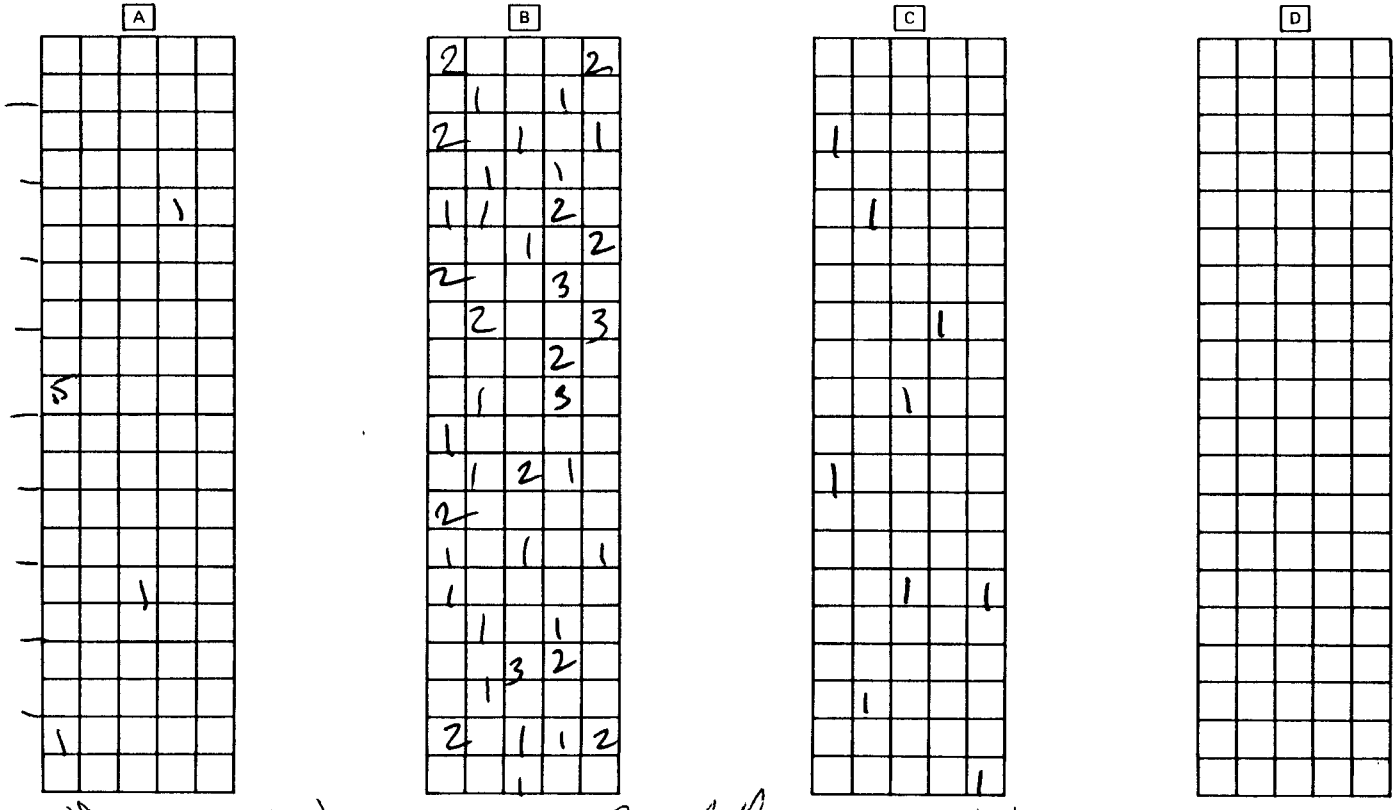
Field Area (Check One): ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



FIELD TECH. 5/7/94 DATE

ANALYST 5/7/94 DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6486012

1601 Research Boulevard
Rockville, Maryland 20850

		Log #83	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
108294	A	108294	09	4224	2.5	2.5	2.5	1150	8:40	530	1325	3	100		3	
	A	Notes: Outside containment flammable 1 btwn 5 & 7 floors														
108394	B	108394	10	4227	2.5	2.5	2.5	1137	8:40	543	1357.5	1	100		1	
	B	Notes: Outside containment critical service Hallway @ Rm 7206														
108494	C	108494	11	4223	2.5	2.5	2.5	1140	8:40	540	1350	6	100		6	
	C	Notes: Outside containment Hallway 7230														
108594	D	108594	12	23119	2.5	2.5	2.5	1142	840	538	1345	7½	100		7½	
	D	Notes: outside containment 7224														

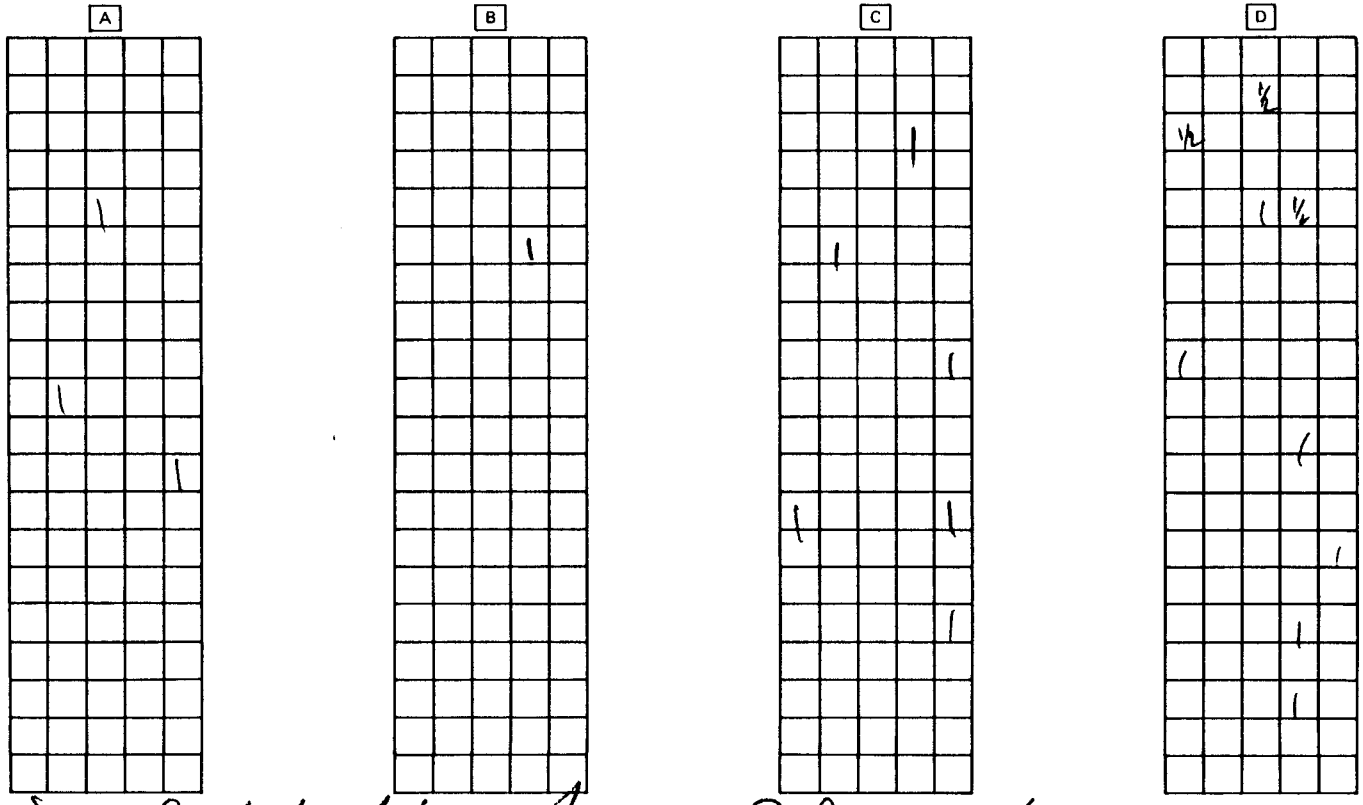
Field Area: (Check One) ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Joseph D Eichenlaub 5/7/94 — FIELD TECH. DATE

Joseph D Eichenlaub 5/7/94 — ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 1486.012

1601 Research Boulevard
Rockville, Maryland 20850

		Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc	
108694	A	~~108694~~ 87	14	93211	10.0	10.0	10.0	1:45	3:45	120	1200	0	100		0		<0.01
	A	Notes: 88 Fiber inside															
108794	B	~~108794~~	15	937	10.0	10.0	10.0	1:45	3:45	120	1200	1	100		1		<0.01
	B	Notes: 89 Fiber inside															
108894	C	108894	16	935	10.0	10.0	10.0	1:45	3:45	120	1200	0	100		0		<0.01
	C	Notes: 90 Fiber inside															
108994	D	~~108994~~	17	966	10.0	10.0	10.0	1:45	3:45	120	1200	2	100		2		<0.01
	D	Notes: Fiber inside															

Field Area: (Check One) ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre + Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

B

1

C

D

1

1

Joseph D Eichelberger 3/7/94 — FIELD TECH. DATE

Joseph D Eichelberger 3/7/94 — ANALYST DATE

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	14	15	16	17	
Location:	INSIDE	INSIDE	INSIDE	INSIDE	
Volume (Liters):	1200	1200	1200	1200	
Flow rate: (Liters/Minute)	10.0	10.0	10.0	10.0	
Fibers/Filter:	0/100	1/100	0/100	2/100	
Fibers/Cubic Cm:	<0.01	<0.01	<0.01	<0.01	

ANALYST ANALYZING SAMPLES: Joseph D Eichelberger DATE: _____

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No problems Encountered

Report Prepared By: Joseph D Eichelberger Date: 5/7/94

REPORT REVIEWED BY: _____ DATE: _____

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 6486-012

Location: 7th Floor Date: 5/7/94

Removal Contractor: Rehro Time Inspected: _____

Monitoring Contractor: Tecon Time Completed: _____

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	yes	
	b. Horizontal Surfaces.	yes	
	c. Pipes.	NA	
	d. Ventilation Equipment.	NA	
(above eye level)	e. Horizontal surfaces.	yes	
	f. Pipes.	NA	
	g. Ductwork.	NA	
	h. Registers	NA	
	i. Lights.	NA	

Page #_____

LOG SHEET

Date: May 6, 1994

Project Number: 6486-012

Industrial Hygienist: Joseph D Eichenlaub / Joseph D Eichenlaub

Abatement Contractor/Supervisor: RETRO

	Time	Remarks
5/6	7:00	ARRIVED AT NEOB 7th Floor Containment AREA
		7209 thru 7225
	8:00	No problems RETRO Constructing Containment
	9:00	SAME AS ABOVE
	10:00	lunch
	11:00	WORKER building containment NO problems
5/7	12:00	SAME AS Above
	1:00	Worker completed with office space workers
		Start on hallway
	2:00	Workers moved negative pressure exhaust unit
		with HEPA filter to the 7th Floor, union light
		AND Power AS on site moving lights up to
		the 7th Floor
	3:00	Workers building Decon Unit, Union light
		AND Power HAVE All their lights inside
	3:30	Workers almost Completed with Containment
	3:45-4:15	Containment PASS Initial inspection negative
		Pressure -0.036 - OUTSIDE & INSIDE AIR Samples
	4:20.	ARE SET-UP - Automatic worker on site
	5:00	Worker GETTING Ready to enter the Containment
		AREA - Automatic worker bringing in pipe
		(stocking the Floor) Negative Pressure -0.020
	6:00	RETRO WORKERS ARE INSIDE removing Ceiling
		Tile NO problems encountered - 0.016
	6:30	RETRO STARTS Removing (CT) from the Containment
		RETRO working on negative

Page # 1

LOG SHEET

Date: 5/7/94

Project Number: 64816-012

Industrial Hygienist: Barry J Herman

Abatement Contractor/Supervisor: Retro/Bob Reeves

Time	Remarks
0700	on site; neg pressure fixed on barrier -0.048"
0745	work continues, part of barrier open, Retro to repair -0.044"
0800	Barrier Inspection — good shape, however barrier weak at hinge tunnel area (smoke, the tunnel in hall to access offices)
	Being reinforced by Retro. All fine
0835	Two workers exiting cont' with equipment and didn't decon properly
	sent them back thru for proper decon.
0910	sprinkler workers at a break. need to improve decon a little (Tell them)
0910	-0.032" neg pressure
0955	Retro prepare to move light from barrier -0.028" neg pressure
1000	Barrier Inspection - tunnel look at work, fixed it all else fine
	pulled inside sample new lights being installed, old being gathered
	sprinkler work continues.
1050	Turn lights out of hallway power -0.018 turned traps on high -0.020"
	Retro Taking lights out again
1120	Setup pump inside, barrier falling at tunnel fixed it told Terry (Retro)
	to fix it better. -0.020"
1130-50	Set up second set of pumps
1330	All samples arranged with outside <0.01 P/CC
1345	Barrier Inspection - all fine but tunnel fixed it properly
	myself! neg pressure -0.024"
1500	Removing exhaust vents from barrier all fine
1530	neg pressure -0.020"
1600	Barrier inspection all fine
1700	Ready for light inspection
1720	Retro start bringing up new ceiling tile

Page # 2

LOG SHEET

Date: 5/7/94

Project Number: 6486 012

Industrial Hygienist: B Hunter

Abatement Contractor/Supervisor: Retro/Bob Reaver

Time	Remarks
1730	Sprinkler work continues, Retro getting more fine, very pros — 0.020"
1800	work continues with fine

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB Project: 6486 - 012

Location: 4th Floor Date: 6/6/94

Removal Contractor: Rello Time Inspected: 3:45-4:10

Monitoring Contractor: TRACER Time Work Started: 4:45 Am 6/7/94

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	14	
	f. Negative pressure > .02"	-0.036	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ½ Face PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No Problems Encountered

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: Joseph D Eichelal Date: 5/6/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 7th Floor Date: 5/6/94

Removal Contractor: RETRO Time Started: _____

Monitoring Contractor: TRACOR Time Stopped: _____

Inspection Catagory	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimetar Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	NA	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	14	
	f. Negative pressure > .03"	-0.036	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA 1/2 PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No problems encountered

Report Prepared By: _____ Date: _____

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 7th Floor Date: 5/7/94

Removal Contractor: Retro Time Started: 0700

Monitoring Contractor: Tracor Time Stopped: 1900

Inspection Catagory	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	✓
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .02"$_2$		✓
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	✓
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Tunnel kept coming loose, was fixed, neg pressure dropped once when main lights removed. immediately corrected, some workers NOT decon properly include equip were informed not sent back thru (see notes)

Report Prepared By: B Hunter Date: 5/7/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 7th Floor Date: 5/7

Removal Contractor: PETRO Time Started: 7:00 pm

Monitoring Contractor: TRACOR Time Stopped: 7:00 pm 5/3

Inspection Catagory	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimetar Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	NA	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	14	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ___ HEPA ½ face PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

no problems encountered

Report Prepared By: Joseph D Eichenseel Date: 5/7/94

Page #_____

LOG SHEET

Date: 5/7/94

Project Number: 6486-012

Industrial Hygienist: Joseph D Eichenauer

Abatement Contractor/Supervisor: REPO

Time	Remarks
6:00	[illegible] 7th Floor - Turn light and [illegible]
	[illegible] the hallway
7:00	Same as above [illegible]
	[illegible]
8:00	[illegible]
	[illegible]
9:00	[illegible] REPO WORKERS [illegible]
	[illegible]
10:00	no problem [illegible] / SAME AS ABOVE
11:00	no problem [illegible] Contain
	[illegible] area
12:00	SAME AS ABOVE
1:00	SAME AS ABOVE
1:20	Final Visual inspection PASSES
	PETRO Encapsulants
1:45	Final AIR Samples Set-up
2:45	Final AIR SAMPLES Collected
4:30	Final AIR <0.01 f/cc
	Leave Site

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6486 · 012
NEOB

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	110194	01	61	2.5	2.5	2.5	4:40	1230	470	1175	0	100	0	0	0.004
A	Notes: EAST SIDE OF 7th FLOOR ELEV. CONTAIN OUTSIDE OF CRITICAL														
B	110294	02	01	2.5	2.5	2.5	4:41	1231	470	1175	0	100	0	0	0.004
B	Notes: EAST SIDE OF 7th FLOOR ELEV AT MICROTRAP EXHAUST AT STAIRWELL 3														
C	110394	03	0	2.5	2.5	2.5	4:44	1234	470	1175	4.5	100	0	4.5	0.004
C	Notes: WEST SIDE OF 7th FLOOR ELEV. LOBBY OUTSIDE OF CRITICAL RESTART JARROD OFF 6:55														
D	110494	04	14	2.5	2.5	2.5	6:54	1014	200	500	0	100	0	0	0.009
D	Notes: WEST SIDE OF 7th FLOOR ELEV. LOBBY INSIDE AREA														

Field Area: (Check One)
- ☑ .00785
- ☐ .00754
- ☐ .00724
- ☐ .00801
- ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- ☑ 25 mm (385 sq mm)
- ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A 01

B ~~02~~ BW 03

C 02

D 04

5-14-94
FIELD TECH. DATE

5.14.94
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6486 1012 NEOB 7th FLOOR

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	110594	05	510013	2.5	2.5	2.5	4:43	1233	470	1175	3	100	0	3	0.004
A	Notes: WEST OF DECON IN HALL AT HALL INTERSECTION 7th FLOOR LOBBY														
B	110694	06									0	100			
B	Notes: Blank														
C	110794	07									0	100			
C	Notes: Blank														
D	110894	08	93	2.5	2.5	2.5	1237	1357	200	500	18	100	0	18	0.018
D	Notes:														

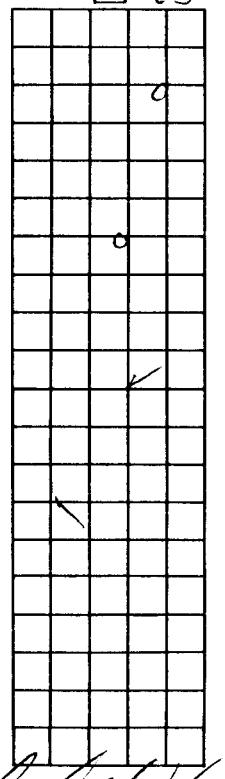
Field Area: (Check One) ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Filter Size ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

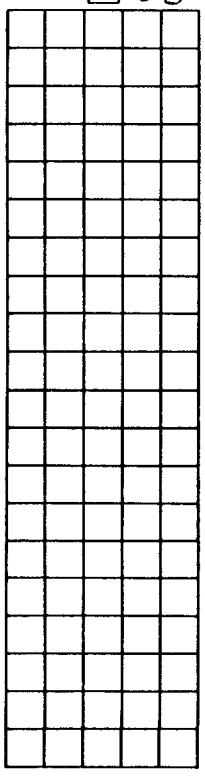
Calculations: Mean Flow = $\frac{\text{Pre + Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

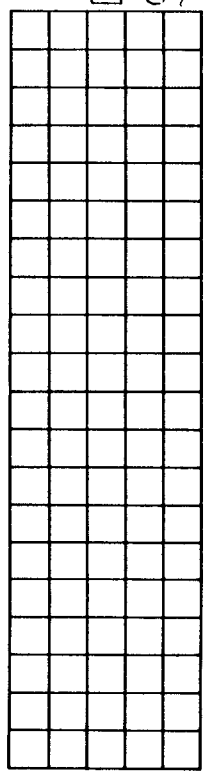
A 05



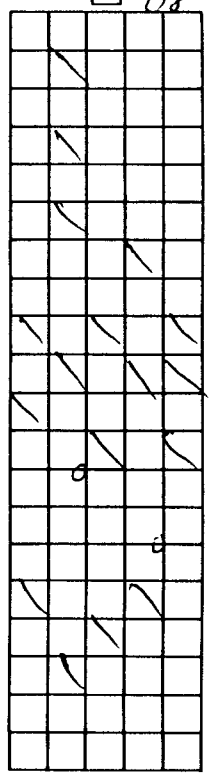
B 06



C 07



D 08



Charles [illegible] 5-14-93
FIELD TECH DATE

[illegible] 5-14-93
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6486-012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	110994	09	1412	10	10	10	1908	2108	120	1200	1	100	0	1	0.004
A	Notes: Final: inside elevator Lobby aca														
B	111094	10	5031	10	10	10	1910	2110	120	1200	1.5	100	0	1.5	0.004
B	Notes: Final: inside elevator Lobby aca														
C	111194	11	1617	10	10	10	1912	2112	120	1200	0	100	0	0	0.004
C	Notes: Final: inside elevator Lobby aca														
D															
D	Notes:														

Field Area: (Check One)
- ☒ .00785
- ☐ .00754
- ☐ .00724
- ☐ .00801
- ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- ☒ 25 mm (385 sq mm)
- ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A 09

B 10

C 11

D

B Hills 5.11.94
FIELD TECH. DATE

B Hills 5.11.94
ANALYST DATE

Page # 1

LOG SHEET

Date: 5-13/14-94

Project Number: 6486 · 012

Industrial Hygienist: CHARLES G WILES JR

Abatement Contractor/Supervisor: RETRO - BOB GURECKI
GSA TIM LOWANDOWSKI

Time	Remarks
7:00	C.WILES ON SITE
7:10	CHECKED IN THROUGH SECURITY
7:30	RETRO MOVING SUPPLIES TO SEVENTH FLOOR ELEV. LOBBY
	RETRO 3 WORKERS 1 FOREMAN & BOB ON SITE
7:50	RETRO HANGING POLY
9:30-10:30	RETRO BROKE FOR LUNCH
10:30-12:30	RETRO HANGING POLY
12:30	CHRIS HIGHTOWER MOVED 11 CEILING FROPS INTO AREA
	BEFORE LOBBY IS SEALED UP
1:00	RETRO DOWN AT LOADING DOCK BRINGING UP BALANCE
	OF SUPPLIES - SHOWER DECON TRAPS
2:15	RETRO HANGING POLY WALL WEST WALL IN HALL & BEGINNING
	TO ERECT DECON
3:30	DECON SET UP 95% COMPLETE - C.WILES SET
	OUT PUMPS AROUND & IN AREA WILL TURN ON AT BEGINNING
	OF ABATEMENT
3:50	INSPECTED AREA WITH RETRO FOREMAN FOUND FEW DETAILS
	NEEDED TO BE SEALED - 4:10 COMPLETED 4:00 TOMBE ON SITE
4:15	SPRINKLER FITTERS ON SITE. INSTRUCTED 1 MAN FROM
	AUTOMATIC TO SHAVE BEFORE ENTERING AREA FOR WORK
4:45	SPRINKLER FITTERS MOVING SUPPLIES INTO AREA BEFORE ELEV. DOOR
	SEALED SHUT. TURNED ON OUTSIDE AREA PUMPS
5:20	ELECTRICIANS ON SITE SIMON 5:30 SIXTH MAN ON SITE
5:45	BOB RAPPON SITE
6:00	ELECTRICIANS & SPRINKLER FITTER MOVING SUPPLIES AND CHRIS RAPPON
6:08	5 ADDITIONAL SPRINKLER FITTER ON SITE

GURECKI

Page # 05

LOG SHEET

Date: 5-14-94

Project Number:

Industrial Hygienist: Charles G Wiles Jr

Abatement Contractor/Supervisor: RETKO.
GSA Bob Rayon

Time	Remarks
6:15	ELECTRICIANS CONTINUING TO MOVE SUPPLIES INTO LADIES BATH
6:25	RETKO WAITING FOR ELECTRICIAN - SO THEY CAN
	SEAL FREIGHT ELEVATOR UP
6:28	RETKO SEALING UP FREIGHT ELEVATOR
	MEN EXITING CONTAINMENT - GETTING READY TO SUIT UP
6:32	NEG AIR .032 - .036
6:45	C.WILES - FOUND SPRINKLER FITTER SMOKING CIGARETTE
	IN LADIES BATHROOM OUTSIDE CONTAINMENT - POLY ON FLOORS
	& MAN IN TYVEK SUIT - I INSTRUCTED HIM TO DOUSE HIS
	SMOKES AND THE BURN HAZARD FROM TYVEK & POLY.
6:55	CRITICAL WEST SIDE POND BARRED OFF - 6:55 RESTART
7:00	SPRINKLER FITTER BEGAN WORK INSIDE
	BOB WILES ON SITE
	TRANSFER LOW VOL
7:30	C.W. LEFT OFFSITE

Page # 1

LOG SHEET

Date: 5.14.94

Project Number: 6486 – 042

Industrial Hygienist: B Wells

Abatement Contractor/Supervisor: Retro Enviro

Time	Remarks
0700	B Wells relieves Wiles. Exchange of Wells' id and samples for Wiles's vols.
	C. Wiles had to reprimand one of the electricians
	for not showering out of the ACA
0730	TR setup gear in office
0800	Electricians are also working in the ladies
	restroom. No ACM in there. Neg air > 0.06
0900	Work in the ACA continues. B. Rever on site
1000	TR will shortly remove and analyze the
	inside sample. Neg air > 0.044
1030	B. Rever offsite. No fibers observe in the
	samples from inside the WA of the ACA
	Neg air > 0.046
	TR starting another inside sample
1100	Work continues
1215	Retro requests permission to clear one area
	for a sprinkler head outside of the ACA by
	hanging poly and creating a mini ACA
	TR gives permission. Workers out on lunch break
0100	Workers back inside
	TR analyzes the rest of the air samples and
	finds very low fibers
1353	Retro will not need to go into the
	janitor closet as it was done last week
1415	TR analyzed the second inside sample. This
	sample had a considerably high fiber

Page # 2

LOG SHEET

Date: 5.14.94

Project Number: 6486.012

Industrial Hygienist: B Hills

Abatement Contractor/Supervisor: Retro Enviro / Chris

Time	Remarks
cont.	count than the first inside sample. The count was within the safety factor of 1/2 face mask
1430	Pipefitters on site
1525	Electricians are going offsite. Retro think they may be ready for the water test on the pipelines shortly. BR over on site
1600	Pipefitters to begin water test
1700	Water test underway
1750	Water test ok
1800	Retro ready for inspection. IR inspected and ok'd for encapsulation
1930	IR has 3 final air samples running
2130	IR analyzed the final air samples and all samples had less than 0.01 f/cc the EPA recommended level for clean air. IR gave Retro permission to return the area to use
2200	IR offsite

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB Project: 6486-012

Location: 7th floor elev lobby Date: 5.12.94 72 BW 13+14

Removal Contractor: Retro Enviro Time Inspected: 0645

Monitoring Contractor: Tracor Time Work Started: 0700

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	✓	
	f. Negative pressure > .02"		
2. Signage	a. Caution Signs at vestibule entry.	na	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: [signature] Date: 5-14-84

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: 6486-012

Location: 7th FLOOR ELEV. LOBBY

Date: 5-13-14-94

Removal Contractor: RETRO

Time Started: 7:00 PM

Monitoring Contractor: TRACOR

Time Stopped: 7:00 AM

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"		
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Matarial Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

AREA SET UP AND WORK BEGAN

Report Prepared By: [signature] Date: 5-14-94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 7th floor elev. lobby Date: 5-14-94

Removal Contractor: Enviro Petro Time Started: 0700

Monitoring Contractor: Tracor Time Stopped: 2200

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	na	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	na	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA 1/2 face PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Falls Date: 5-14-94

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 6486·012

Location: 5th floor elev. lobby Date: 5·14·94

Removal Contractor: Retro Time Inspected: 1830

Monitoring Contractor: Tercor Time Completed: _____

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	na	
	d. Ventilation Equipment.	na	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	na	
	g. Ductwork.	na	
	h. Registers	na	
	i. Lights.	na	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	09	10	11		
Location:	inside WA	inside WA	inside WA		
Volume (Liters):	1200	1200	1200		
Flow rate: (Liters/Minute)	10	10	10		
Fibers/Filter:	1	1.5	0		
Fibers/Cubic Cm:	0.004	0.004	0.004		

ANALYST ANALYZING SAMPLES: B Stello DATE: 5.14.94

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Stello Date: 5.14.94

REPORT REVIEWED BY: — DATE:

~~C Highlands~~

Tracor Technology Resources — Air Sample Sheet

Project # 6486.012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc	
A	111294	01	16	2.5	2.5	2.5	0510	1200	410	1025	7	100	0	7	0.003	<0.005
A	Notes: 7th floor elevator lobby															
B	111394	02	31	2.5	2.5	2.5	0506	1005	419	1048	0	100	0	0	<0.005	<0.005
B	Notes: Stairwell #2 at AHU exhaust															
C	111494	03	15	2.5	2.5	2.5	0502	1155	423	1058	9.5	100	0	9.5	0.004	<0.005
C	Notes: Office 7226															
D	111594	04	93	2.5	2.5	2.5	0500	1155	425	1063	11	100	0	11	0.005	0.005
D	Notes: Office 7225															

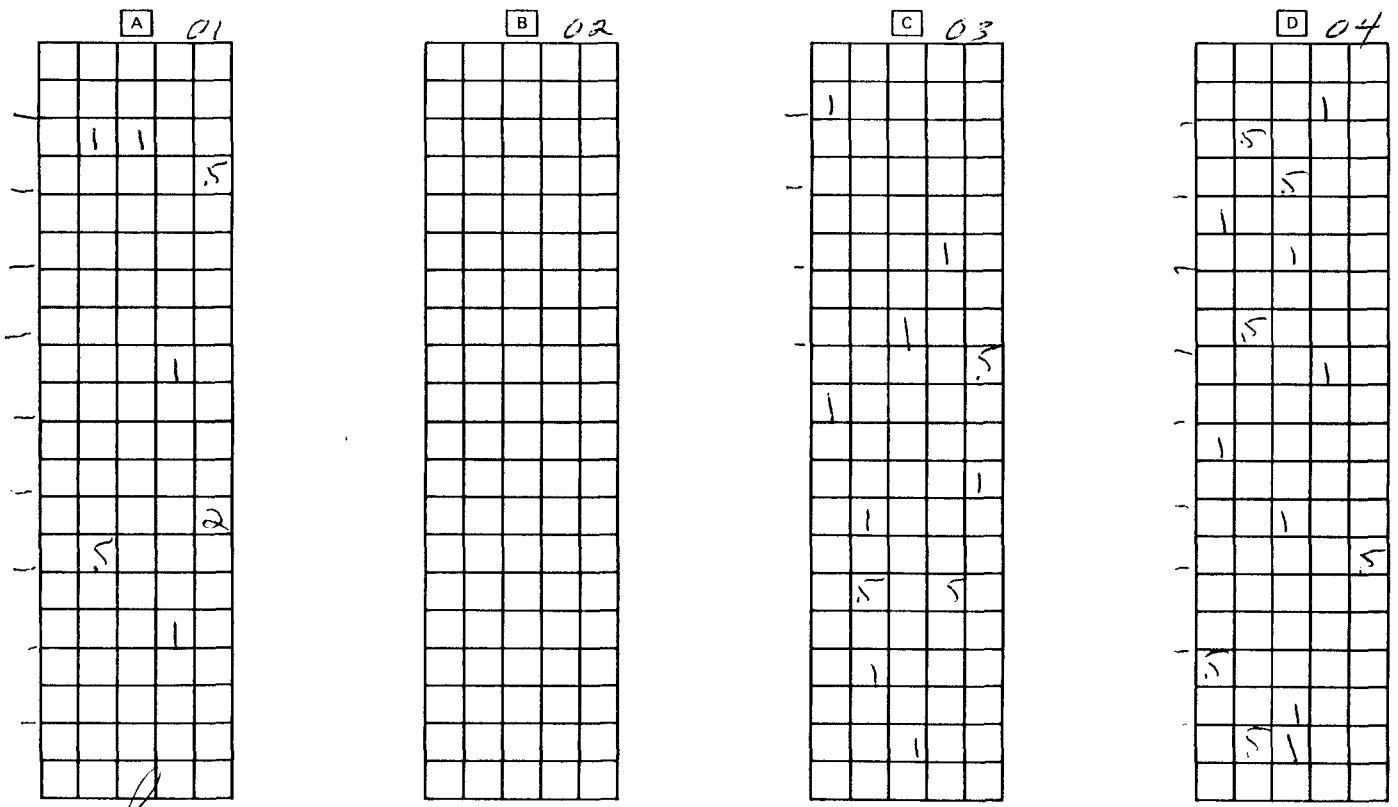
Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



G Stella 5-21-94

FIELD TECH. DATE

ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6486-012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	111694	05	01	2.5	2.5	2.5	0450	1155	425	1063	100	25	0	436	0.20
A	Notes: Inside WA														
B	111794	06									0	100			
B	Notes: Blank														
C	111894	07									0	100			
C	Notes: Blank														
D	112394	12	93	2.5	2.5	2.5	1615	2048	273	682.5	0	100	0	0	0.007 <0.007
D	Notes: Stairwell 42 7th floor microtrap exhaust														

Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre + Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{\text{(Net Count/100) x Filter Area}}{\text{Field Area x Volume x 1000}}$

A 05

5	6	3	2	4
1	8	1	1	6
7	8	5	4	6
3	5	1	2	4
7	8	5	3	6

20
17
30
15
27

B 06

C 07

D 12

B. Hell 5-21-94

FIELD TECH. DATE

ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6456.012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc	
A	111994	08	10	2.5	2.5	2.5	1605	1925	200	500	2	100	0	2	0.009	<0.010
A	Notes: Inside work area - 7th Floor															
B	112094	09	15	2.5	2.5	2.5	1605	2042	277	692.5	3	100	0	3	0.007	<0.007
B	Notes: Outside Decon - 7th Floor															
C	112194	10	16	2.5	2.5	2.5	1605	2044	279	697.5	2	100	0	2	0.007	<0.007
C	Notes: Outside barrier - Grid 7226															
D	112294	11	31	2.5	2.5	2.5	1610	2046	276	690	1	100	0	1	0.007	<0.007
D	Notes: Outside barrier - Grid 7225															

Field Area: (Check One) ☐ .00785 ☐ .00801 ☑ .00754 ☐ .00817 ☐ .00724

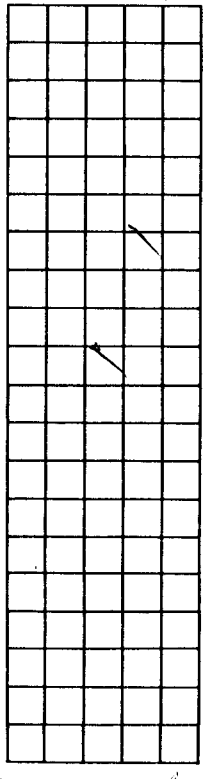
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A 08



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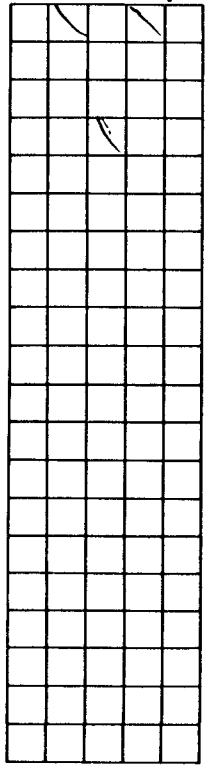

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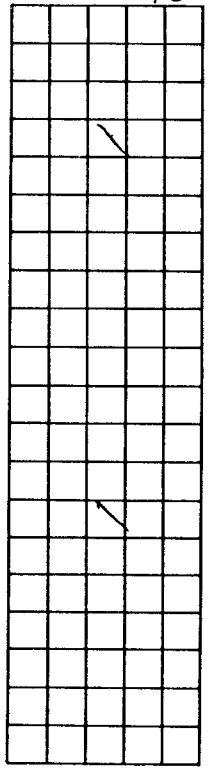

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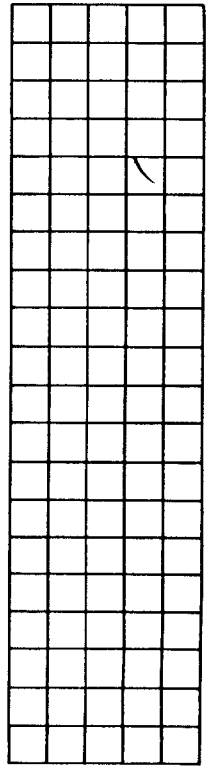


FIELD TECH. DATE

ANALYST 5.21.94 DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6486-012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc	
A	112494	13	1412	10	10	10	2345	0145	120	1200	5	100	0	5	0.004	<0.004
A	Notes: Final: 7th NW aca															
B	112594	14	5631	10	10	10	2347	0147	120	1200	0	100	0	0	0.004	<0.004
B	Notes: Final: 7th NW aca															
C	112694	15	89	10	10	10	2349	0149	120	1200	.5	100	0	.5	0.004	<0.004
C	Notes: Final: 7th NW aca															
D	112794	16	467	10	10	10	2351	0151	120	1200	0	100	0	0	0.004	<0.004
D	Notes: Final: 7th NW aca															

Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

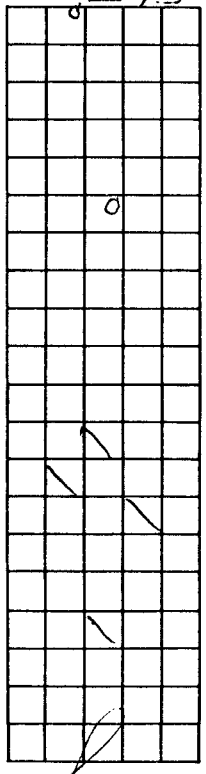
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A 13



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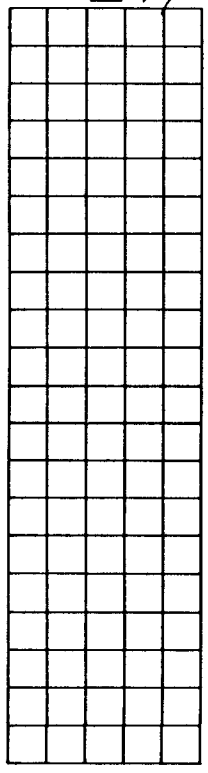

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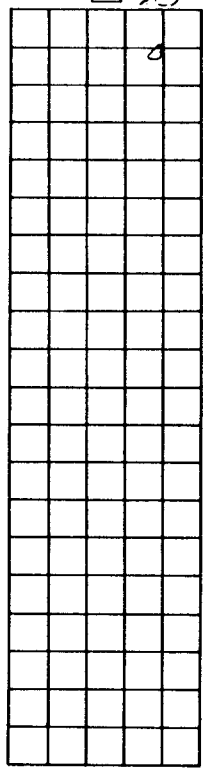
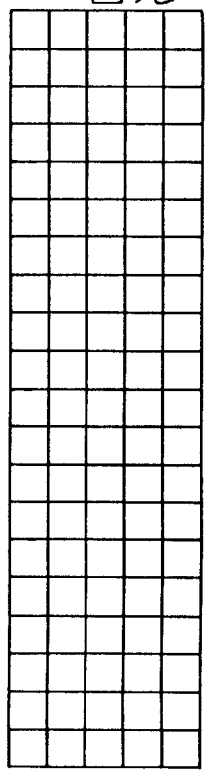


D 16



FIELD TECH. DATE 5-22-04

ANALYST DATE 5-22-04

Page # 1

LOG SHEET

Date: 5.20.94

Project Number: 6486-0121

Industrial Hygienist: B Wells

Abatement Contractor/Supervisor: Retro

7 floor NW area

Time	Remarks
~~0700~~ 1900	IR, Retro, B Reuver on site. Retro removing furniture from area
2000	Furniture is out and Retro is moving material in to start ~~and~~ constructing the ACM
2100	Retro continues to prep the area
2130	Crew on break
2230	Crew back at work
2300	Electricians on site moving in lights
2430	Area prepping continues
0130	Electricians continue to move up light fixtures
	B. Reuver off site
0200	Crew break
0300	Work continues prepping area
0400	Pipefitters on site
0440	Retro ready. IR inspected and ok'd to start
0515	Crew suited up and going in. Negair 7.024 in
0530	Electricians back in
0600	B Reuver on site
0645	Pipefitters are in the ACM and starting to bag pipe

Page # 1

LOG SHEET

Date: May 21 - 1994

Project Number: 6486-012

Industrial Hygienist: Barry Hemler

Abatement Contractor/Supervisor: Retro / Bob

Time	Remarks
0700	On Site, review paperwork, check pumps. Retro removing ceiling the bundles from barrier neg pressure -0.020" water. All fine
0725	Barrier Inspection — all fine, Retro sealing holes. electricians and sprinklers begin -0.028" neg pressure
0800	work continues, and fine, lights being removed from ceiling
0830	Checked pumps, neg pressure -0.016, Terry going in to bring in more neg air machines.
0945	pressure at 0.020" containment ok air trays on but wrong containment continued pressure lowest at decon. When take lighting lights out pressure drops below 0.020. Put poly in one light hole to get 0.020. Sprinkler workers will work in one hole with other closed, then switch so as to maintain 0.020 all else fine.
1030	Sprinkler still working in hall - neg pressure -0.016" Retro removing lights from barrier all else fine
1100	continue removing lights
1200	Lights in hall back in, pressure jumps between -0.016 & -0.024 won't hold steady barrier shown at decon good can't find good reason. Taking down pumps for maintenance
1215	Barrier inspection - supply fans ON told foreman will have them turned off. Our neg pressure problem without them!
1330	Pressure has risen to -0.028" all fine elec almost done, sprinkler running pressure test.
1410	Sprinkler crew leaves except for testers Retro taking out last of lights and boots all fine -0.028"

Page # 2

LOG SHEET

Date: 5/21/94

Project Number: 6486 012

Industrial Hygienist: B Henderson

Abatement Contractor/Supervisor: Retro / Bob

Time	Remarks
1500	All clean and sprinkler work done, waiting for Gruning to arrive and install CT, Pressure test continues
1600	All fine neg pressure, Pressure test continues W.O.[illegible]
1615	CIH Site visit
1700	All suits and boots on hook no work in barrier neg pressure -0.032"
1800	Workers moving tiles to barrier entrance
1900	End of shift

Page # 1

LOG SHEET

Date: 5-21-22-94

Project Number: 6486-012

Industrial Hygienist: B Wells

Abatement Contractor/Supervisor: Retro / Chris

Time	Remarks
1900	B. Wells relieving B. Hemmler.
	IR called Retro's attention to the high fiber count on the inside of the AA
2000	The tile men are replacing the ceiling
	IR checked the latest air sample and found almost no fibers
2018	Left of Retro offsite. Water test was passed earlier
2200	Retro is fine cleaning. Tile people have finished putting up the ceiling
2245	IR inspected the area and gave Retro permission to encapsulate
2350	IR started clearance finals
2440	B. Reiver on site
0220	IR gave Retro permission to return the area to use after analyzing the final air samples. All samples were less than the EPA recommended clearance for clean air of <0.01 f/cc

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB Project: 6486-012

Location: 7th floor NW area Date: 5-21-94

Removal Contractor: Retro Time Inspected: 0440

Monitoring Contractor: Tracor Time Work Started: 0515

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	✓	
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	na	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR ✓ TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: B Spells Date: 5.21.94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB | Project: 6486.012

Location: 7th floor NW | Date: 5-21-22.94

Removal Contractor: Retro | Time Started: 1900

Monitoring Contractor: Tracor | Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	n/a	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"		
2. Signage	a. Caution Signs at vestibule entry.	n/a	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA 1/2 face PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: G Hallo Date: 5-21-1994

CIH Inspection

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 7th Fl Date: 5/21/94 Sat

Removal Contractor: Retro Time Started: 4:00 pm

Monitoring Contractor: Tracor Time Stopped: 4:20

Inspection Catagory	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	0.032	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Catagory	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	y	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP "C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?		
	c. Used Each Departure?		
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [illegible] Date: 5/21/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 7th Floor Date: 5/21/94

Removal Contractor: Retro Time Started: 0700

Monitoring Contractor: Tracor Time Stopped: 1900

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"		✓
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Ventilation system turned on. Did not very pressure. Need

to find out if can turned off.

Report Prepared By: B. [illegible] Date: 5/20/[illegible]

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: 6486.012

Location: 7th floor NW area

Date: 5.20.94, 5.21

Removal Contractor: Retro

Time Started: 1900, 5.20

Monitoring Contractor: Tracor

Time Stopped: 0700, 5.21

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	NA	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	>.024	
2. Signage	a. Caution Signs at vestibule entry.	NA	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA 1/2 face PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Hills Date: 5.20.94, 5.21.94

EXHIBIT C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 6486-012

Location: 7th floor NW area Date: 5.20.94

Removal Contractor: Retro Time Inspected: 1900

Monitoring Contractor: Tracor Time Completed: _____

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	na	
	d. Ventilation Equipment.	na	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	na	
	g. Ductwork.	na	
	h. Registers	na	
	i. Lights.	na	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	13	14	15	16	
Location:	inside WA	inside WA	inside WA	inside WA	
Volume (Liters):	1200	1200	1200	1200	
Flow rate: (Liters/Minute)	10	10	10	10	
Fibers/Filter:	5	0	.5	0	
Fibers/Cubic Cm:	0.004	0.004	0.004	0.004	

ANALYST ANALYZING SAMPLES: B Wells DATE: 5.22.94

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Wells Date: 5.22.94

REPORT REVIEWED BY: DATE:

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6486-012

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc	
A	118094	01	15	2.5	2.5	2.5	0509	1119	370	925	7	100	0	7	0.004	<0.005
A	Notes:	AFD exhaust														
B	118194	02	93	2.5	—	—	0511	[illegible]	[illegible]	[illegible]	—	—	—	—	—	
B	Notes:	In Off 7236														
C	118294	03	21	2.5	2.5	2.5	0503	1115	372	930	8.5	100	0	8.5	0.004	<0.005
C	Notes:	7208 in Melissa Cooks office														
D	118394	04	16	2.5	2.5	2.5	0500	1113	373	933	141	20	0	705	0.4	0.371
D	Notes:	Inside WA														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A 01

1	1			
		1		
.5				
	2			
	1			
			1	
			.5	
	1			

B 02

C 03

		.5		
			1	
			1	
.5		1		
				1
		1		
		1		
			1	.5

D 04

8	6	10	6	8
5	5	6	8	5
6	4	3	12	8
5	11	7	8	11

C Wells 6-4-94
FIELD TECH. DATE

Barry [illegible] 6/4/94
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

1801 Research Boulevard
Rockville, Maryland 20850

Project # 6486-012

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	118494	05	10	2.0	2.5	2.5	0501	1113	373	933	63.5	100	0	63.5	0.033
A	Notes: In decon														
B	118594	06									0	100			
B	Notes: B. Lank														
C	118694	07									0	100			
C	Notes: Blank														
D															
D	Notes:														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A 05

1.5	2	–	–	–
1	–	1.5	1.5	–
1	3	3	5	.5
–	2	–	1	–
–	–	–	2	2
1	–	–	2	1
–	0	1	0	0
11 2				
3	–	2	1	–
–	–	1	–	2
1	–	–	.5	1.5
14 .5	1	–	–	.5
–	–	1	–	–
–	–	–	–	–
1	1	–	1	1
15 1	3	2	1	9
		1	1	
			1	
			2	
6	1			

B 06

C 07

D

R. Fields 6-7-94
FIELD TECH. DATE

B. Henke 6/4/97
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project #

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	118794	08	[illegible]	1.0	1.0	1.0	1118	1957	535	535	46.5	100	0	46.5	0.043
A	Notes: [illegible]														
B	118894	09	[illegible]	2.5	2.5	2.5	1118	—							
B	Notes: [illegible] 1215							Fault							
C	118994	10	[illegible]	2.5	2.5	2.5	1115	2009	534	1335	9	100	0	9	0.003 <0.004
C	Notes: [illegible] 1208														
D	119094	11	[illegible]	2.5	2.5	2.5	1117	2007	530	1325	3	100	0	3	0.003 <0.004
D	Notes: [illegible] 1214														

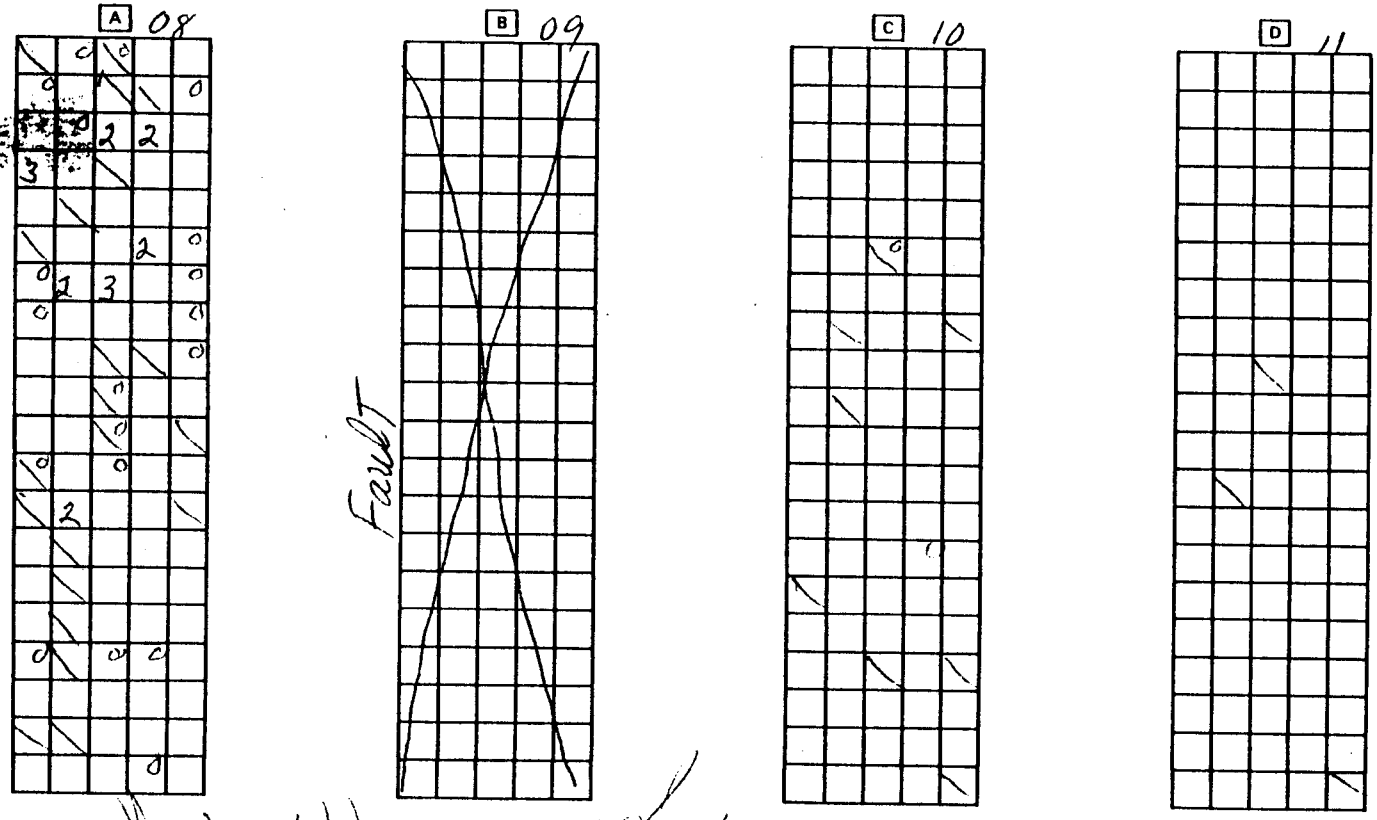
Field Area: (Check One) ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



[illegible] 6/17/94
FIELD TECH. DATE

B [illegible] 6-5-94
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project #

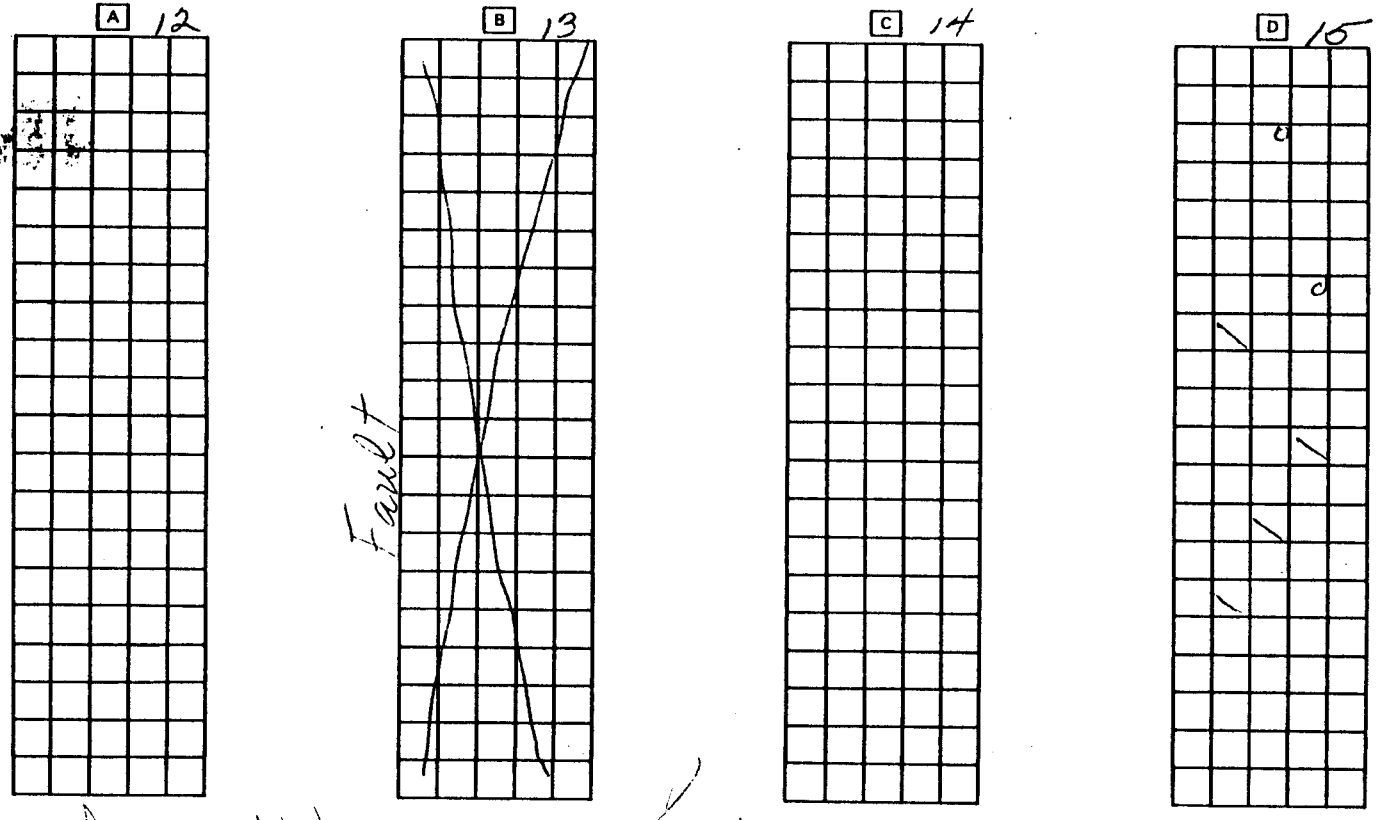
	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc	
A	119194	12	[illegible]	2.5	2.5	2.5	1120	2004	524	1310	0	100	0	0	0.003	<0.004
A	Notes: [illegible]															
B	119294	13	7222	2.5			1122	—								
B	Notes: [illegible]					7236			Fault							
C	119394	14	792	10	10	10	1240	0240	120	1200	0	100	0	0	0.004	<0.004
C	Notes: Final 7th floor															
D	119494	15	1119	10	10	10	1242	0242	120	1200	5	100	0	5	0.004	<0.004
D	Notes: Final 7th floor															

Field Area: (Check One) ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



[illegible] 6/1/94
FIELD TECH. DATE

B Fello 6.4.94
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6486 002

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	119594-	16	13	10	10	10	~~0244~~ 2444 BW	0244	120	1200	1	100	0	1 4	0.004
A	Notes: Final: 7th floor														
B	119694-	17	5631	10	10	10	~~0246~~ 2446 BW	0246	120	1200	0	100	0	0 4	0.004
B	Notes: Final: 7th floor														
C															
C	Notes:														
D															
D	Notes:														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A 16

B 17

C

D

B Falls 6-5-94
FIELD TECH. DATE

B Falls 6-5-94
ANALYST DATE

Page # 1

LOG SHEET

Date: 6·3,4·94

Project Number: 6486·012

Industrial Hygienist: B Wells

Abatement Contractor/Supervisor: Enviro Serv / Ronald Tubongbanua

Time	Remarks
~~1800~~ 1900	Job started. Enviro clearing, photographing
2000	area and moving furniture
2100	ACM preparation
2200	
2300	
2400	
0100	
0200	
0300	
0400	
0436	IR inspected and okd area for work to
	start
0500	Enviro crew suited up and ready to go in
0530	Pipe fitters on site and preparing lines
0600	Neg air at 0.048 in
0700	IR looking for relief IH

Page # 1

LOG SHEET

Date: 6/4/94

Project Number: 6456-012

Industrial Hygienist: B. Hamler

Abatement Contractor/Supervisor: Retro / Bob

Time	Remarks
0715	at building
0730	on site work in progress, set up work space
	neg pressure -0.004" breaker had been tripped
0745	neg pressure -0.020" all old suspended ceiling
	tile has been removed from the barrier. Barrier inspection.
0800	work continues, union light & power still on break all fine
0845	Elec and sprinkler work continues, manometer dies,
	unable to read neg pressure
0910	Got manometer operating again. neg pressure -0.012-0.018
	Retro going in to reroute wires to stop breaker tripping problem.
	Automatic going on break.
0940	neg pressure of -0.020 after rerouting wires and running all traps.
	Have talked to bldg workers to shut off AHU back as still getting supply
	air leakage thru vents even though dampers are closed.
1000	AHU turned off neg pressure -0.032" Automatic getting
	ready to go back in.
1030	Work continues all fine lights being unplugged off neg pressure -0.024"
1100	changed pumps, contamination work continues all fine
	neg pressure -0.020" prep slides
1215	Samples analyzed all fine neg pressure -0.024"
	Retro start to remove lights from barrier
1300	Work continues lights still being removed.
1345	Begin water pressure test!
1500	All lights out of barrier and downstairs all warm lights inspected
	and all but 2 automatic workers are gone. neg press -0.020
	waiting for tile crew from Gunthy to arrive to start replacing tile
	crew isn't scheduled to arrive till 1900 hours

Page # 2

LOG SHEET

Date: 6/4/94

Project Number: 6486 012

Industrial Hygienist: B Herder

Abatement Contractor/Supervisor: Metro | Bob

Time	Remarks
1700	workers arrive to start bringing new CT to burner entrance
1800	start of CT cut entrance with fine
1900	end of shift

Page # 1

LOG SHEET

Date: 6.4,5.94

Project Number: 6486-017

Industrial Hygienist: B Hells

Abatement Contractor/Supervisor: Retro / Ronald

Time	Remarks
1900	IH B Hells relieves B Hemler
	Neg air - 0.0
2000	Retro not on site yet. Electricians are putting
	on lights
2100	still high fibers in the area but it is a
	high percentage of F.G.
	Retro on site
2200	Retro taking out bags and cleaning.
2300	Water test is ok
2400	Retro is ready for inspection. IH inspects
	and ok's area for encapsulation
2450	all fans running
0311	Final samples analyzed and passed with
	fibers less than 0.01 f/cc
	IH gave Retro permission to return the
	area to use

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486.012

Location: 7th floor NW area Date: 6.3.4.94

Removal Contractor: Enviro Time Started: 1900

Monitoring Contractor: Tracor Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	na	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	na	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP "C" ___	2 face
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Stalls Date: 6·3,4·94

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB

Project: 6486-012

Location: 7th floor NW area

Date: 6.4.94

Removal Contractor: ~~[illegible]~~ Enviro

Time Inspected: 0436

Monitoring Contractor: Tracor

Time Work Started: 0500

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	✓	
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	na	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Matarial Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ½ face PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: B Wells Date: 6-4-94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486 012

Location: 7th Floor Date: 6/4/94

Removal Contractor: Retro Time Started: 0730

Monitoring Contractor: Tracor Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"		✓
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Neg pressure problems until AHUs shut down. Were just dampened down earlier

Report Prepared By: R Hensler Date: 6/4/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 7th floor N W Date: 6-4, 5, 94

Removal Contractor: Retro Time Started: _____

Monitoring Contractor: Tracor Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	na	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	na	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ~~HEPA~~ To face HEPA PAPR TYP "C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Sells Date: 6-4-5, 94

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NBOB Project: 6486-012

Location: 7th floor NW Date: 6-5-94

Removal Contractor: Retro Time Inspected: 1400

Monitoring Contractor: Tracor Time Completed: 0330

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	na	
	d. Ventilation Equipment.	na	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	na	
	g. Ductwork.	na	
	h. Registers	na	
	i. Lights.	na	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	14	15	16	17	
Location:	inside WA	inside WA	inside WA	inside WA	
Volume (Liters):	1300	1300	1300	1300	
Flow rate: (Liters/Minute)	10	10	10	10	
Fibers/Filter:	0	5	1	0	
Fibers/Cubic Cm:	0.004	0.004	0.004	0.004	

ANALYST ANALYZING SAMPLES: B Hall DATE: 6-5-94

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Hall Date: 6-5-94

REPORT REVIEWED BY: _____ DATE: _____

PAGE 1 of 1

AMA Analytical Services, Inc.

TRANSMISSION ELECTRON MICROSCOPY
ANALYTICAL RESULTS

COC NUMBER 29574

PROJECT OR JOB SITE 6486012

CLIENT TRACOR

CONTACT JOE EICHENLAUB

DATE 6 / 17 / 94

SAMPLE TYPE AIR

ANALYSIS TYPE TEM

CLIENT's RELEASE CRITERIA 0.010 s/cc

CLIENT ID	AMA ID	ANALYTICAL SENSITIVITY s/mm²	s/cc	f/cc	s/ft²	ASBESTOS # / TYPE	ASBESTOS CONCENTRATION s/mm²	s/cc	ng/m3	wt%	s/ft²
03		6	0.0023			0	<24	<0.0094			

ELECTRON MICROSCOPIST Luis Bustillos

AVERAGE CONCENTRATION: (AHERA use only)

NOTE: For AHERA samples, the response action is complete and no further analysis is needed if the concentration of the samples within the work area is less than or equal to 70 structures per mm² (s/mm²). If no asbestos structures are detected in a sample, the number zero (0) will be used when computing the asbestos concentration. If asbestos is detected in a sample, the actual concentration, in s/mm², is used. On the Certificate of Analysis, the reported concentration will be stated at a 95% upper confidence limit for samples which are at or below your stated release criteria.

THESE SAMPLES WERE ANALYZED BY TRANSMISSION ELECTRON MICROSCOPY. A CERTIFICATE OF ANALYSIS WILL BE SENT TO YOU BY MAIL. IF YOU HAVE ANY QUESTIONS REGARDING THIS ANALYSIS, CONTACT AMA ANALYTICAL SERVICES AT (800) 346-0961 or (301) 459-2640.

Tracor Technology Resources — **Air Sample Sheet**

Project # 6,4,8,6,0,1,2

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	148394	01	93	2.5	—	—	4:40	[illegible]	—	—	—	—	—	—	—
A	Notes: INSIDE 3RD Floor Containment ZONE FG+D														
B	148494	02	10	2.5	2.5	2.5	440	1112	392	980	5	100	0	5	
B	Notes: OUTSIDE Decon Entrance														
C	148594	03	23119	2.5	2.5	2.5	450	1116	386	965	0	100	0	0	
C	Notes: OUTSIDE Containment Stairwell #4														
D	148694	04	31	2.5	2.5	2.5	455	1117	382	955	3	100	0	3	
D	Notes: OUTSIDE Critical Barrier Stairwell #4														

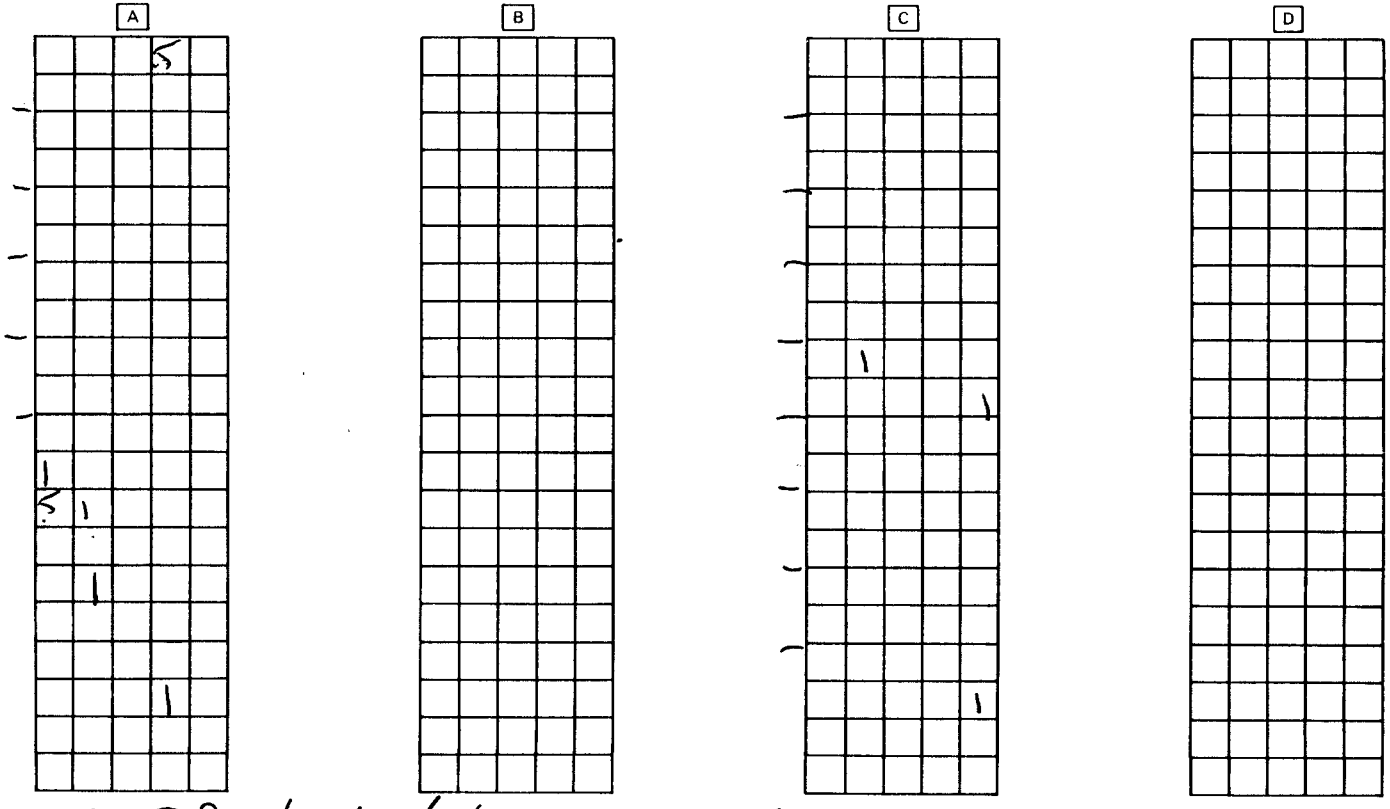
Field Area: (Check One) ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Joseph D Eichenlaub 6/17/94 — FIELD TECH. DATE

Barry J Blank 6/18/94 — ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 64,8,6,0,1,2

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	148794	05	16	2.5	2.5	2.5	4:58	1115	377	942.5	1	100	0	1	
A	Notes: OUTSIDE Outside Building Stairwell #3														
B	148894	06	27	2.5	2.5	2.5	5:00	1116	376	940	3	100	0	3	
B	Notes: OUTSIDE Outside Building Stairwell #3														
C	148994	07	3	3.3	3.3	3.3	1323	—	498	1245	21	100	0	21	
C	Notes: Inside work area 3rd floor														
D	149094	08	41	2.5	2.5	2.5	1325	—	498	1245	6½	100	0	6½	
D	Notes: Outside Barrier - Decon exit/entry 3rd Floor lobby														

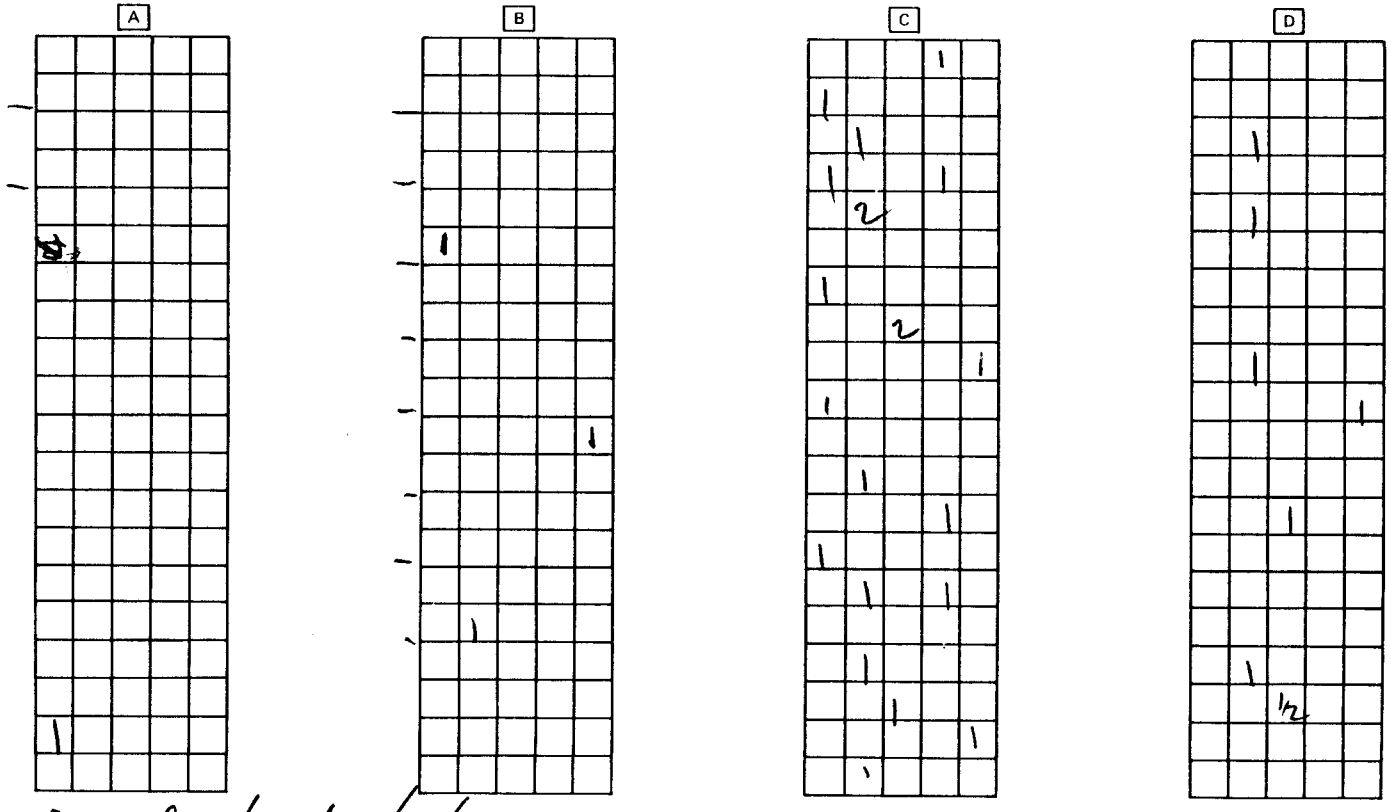
Field Area (Check One): ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre + Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{\text{(Net Count/100) x Filter Area}}{\text{Field Area x Volume x 1000}}$



Joseph D Eichenlaub 6/17/94
FIELD TECH. DATE

Bunny J Wender 6/18/94
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 64816-012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	149194	09	34	2.5	2.5	2.5	1333	—	~~1345~~	498 1345	0	100	0	0	
A	Notes: OUTSIDE CRITICAL BARRIER - STAIRWELL #4														
B	149294	10	83	2.5	2.5	2.5	1333	—	~~1345~~	498 1345	1	100	0	1	
B	Notes: OUTSIDE CRITICAL BARRIER - STAIRWELL #4														
C	149394	11	2	2.5	2.5	2.5	1330	—	~~1345~~	498 1345	3	100	0	3	
C	Notes: OUTSIDE CRITICAL BARRIER - STAIRWELL #3														
D	149494	12	691	10	10	10	1331	1701	210	2100	0	100	0	0	
D	Notes: OUTSIDE CRITICAL BARRIER - Room 3020														

Field Area: (Check One) ☐ .00785 ☐ .00801 ☐ .00754 ☐ .00724

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

B

			1	

C

1				
		1		
		1		

D

Barry J. Henle — 6/18/94 — FIELD TECH. — DATE

Joseph D. Eckenrode — 6/19/94 — ANALYST — DATE

Tracor Technology Resources | **Air Sample Sheet**

Project # 6486.012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	149594	A14	Hivol	10.0	10.0	10.0	12:20	2:20	120	1200	0	100	0	0	
A	Notes: Final 3rd Floor Zone EFHL														
B	149694	A15	Hivol	10.0	10.0	10.0	12:20	2:20	120	1200	2	100	0	2	
B	Notes: Final 3rd Floor Zone EFHG														
C	149794	A16	Hivol	10.0	10.0	10.0	12:20	2:20	120	1200	1	100	0	1	
C	Notes: Final 3rd Floor Zone EFHL														
D	149894	A17	Hivol	10.0	10.0	10.0	12:20	2:20	120	1200	0	100	0	0	
D	Notes: Final 3rd Floor Zone EFHG														

Field Area: (Check One) ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A	B	C	D
	1	1	

Joseph D. [illegible] 6/19/94 — FIELD TECH. DATE

Joseph D. [illegible] 6/19/94 — ANALYST DATE

Page #_____

LOG SHEET

Date: 6/17/94 (7:00 pm) 6/18/94 (7:00 Am)

Project Number: 6486-012

Industrial Hygienist: J. Eichenlaub

Abatement Contractor/Supervisor: Kerro

Time	Remarks
7:00	Arrived at site
	Work zone [illegible] will be completed
	[illegible]
8:00	[illegible] - No problems
	encountered
9:00	Same as above
10:00	Lunch
[illegible]	No [illegible] - [illegible] arrive to
	[illegible]
[illegible]	[illegible]
	[illegible]
	[illegible]
[illegible]	[illegible] Reno workers finished with
	[illegible]
2:30	Same as above ULPA [illegible]
	[illegible] in the containment area
3:30	[illegible] setting negative air pressure
	[illegible]
4:30	Automatic [illegible] drive Reno setting up
	the shower [illegible]
5:30	Negative pressure -0.036 Reno workers
	completed containment in-air dispersion
	water
6:00	Reno workers are inside pulling tubes and
	putting up material barrier above [illegible]
	[illegible]

Page # 1

LOG SHEET

Date: 6/18/94

Project Number: 6486-012

Industrial Hygienist: Barry Hemler

Abatement Contractor/Supervisor: Retro | Bob Reeves

Time	Remarks
0600	On site, work underway all fine
0715	Retro removing ceiling tile from barrier, neg pressure -0.024" all fine
0805	All tiles removed, Union on coffee break, all fine neg pressure -0.024"
0915	Automatic on break now, light work continues, all fine neg pressure holding @ -0.0024"
0950	Pressure dropped to -0.004", workers sealed holes where lights were off and put a weight on decon flap. Pressure returned to 0.030" Also Traps found unplugged neg pressure -0.028"
1100	Retro removing lights from barrier, Union and Automatic continue work all fine neg pressure 0.032"
1115	Picked up pumps for analysis
1205	All outside Sample <0.01 F/cc work continues All fine neg pressure -0.024"
1300	neg pressure - 0.032" all fine automatic coming off of lunch dec. work cont'. Set up second set of pumps.
1500	Sprinkler work near completion as is electrical all fine neg pressure 0.036"
1545	Lights completed and inspected, filling system for test all fine
1700	neg pressure 0.020" Running pressure test all fine
1800	End of shift

Page #_____

LOG SHEET

Date: 6-18-94

Project Number: 6486-012

Industrial Hygienist: [illegible]

Abatement Contractor/Supervisor: [illegible]

Time	Remarks
5:30	[illegible] - Water tank is on
	[illegible]
6:30	[illegible]
	[illegible]
7:30	[illegible]
8:30	[illegible]
9:00	[illegible]
10:00	No [illegible]
	[illegible] - Complete
11:45	[illegible]
12:00	[illegible]
12:30	[illegible]

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEDB Project: 6486-012

Location: 3rd Floor Date: 6-17-94

Removal Contractor: Rotna Time Inspected: Am

Monitoring Contractor: TTR Time Work Started: 7:00 pm

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings		
	e. "Microtrap" in use	20	
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.		
	e. Material Kept Wetted Until Bagged.		
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ½ face PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

no problems encountered

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: Joseph Edwards Date: 6/18/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEDB Project: 6486-012

Location: 3rd Floor Date: 6/17/94

Removal Contractor: [illegible] Time Started: 7:00 pm [illegible]

Monitoring Contractor: [illegible] Time Stopped: 7:30 am [illegible]

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	NA	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	NO	
	f. Negative pressure > ~~.03"~~ .02	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Matarial Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wettad Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA 1/2 FACE PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

no problems encountered

Report Prepared By: [illegible] Date: 6/13/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 3rd Floor Date: 6/18/94

Removal Contractor: Retro Time Started: 0600

Monitoring Contractor: Tracor Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"		✓
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	N/A	
	c. Debris Stored in removal area.	N/A	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Catagory	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Neg pressure machine had only pulled

Report Prepared By: [signature] Date: 6/18/94

CIH Inspection

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 3rd Floor Date: 06/18/94

Removal Contractor: Retro Time Started: _____

Monitoring Contractor: Tracor Time Stopped: 11:35 AM

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	0.024	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	N/A	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Matarial Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [illegible] Date: 6-18-94

Exhibit ~~A~~ B

GSA ASBESTOS ABATEMENT ~~START-UP~~ Monitoring CHECKLIST

Building: NEDB Project: 6486-012

Location: 3rd floor EF&G Date: 6/18/94

Removal Contractor: RENO Time Inspected: 6:00 pm

Monitoring Contractor: TTR. Time Work Started: 6:00 Am 6/19

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	20.	
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Matarial Kept Wettad Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA 1/2 FACE PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problams encountarad hara. The above questions are to be answarad either "YES" or "Problam Encountarad."

No problems Encountered

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: Joseph D Eichelard Date: 6/19/94
SDW

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEDB Project: 6486-012

Location: 3RD Floor ZONE EF+G Date: 6/18/94

Removal Contractor: RENCO Time Inspected: 11:45

Monitoring Contractor: ITR Time Completed: _____

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	NA	
	d. Ventilation Equipment.	NA	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	NA	
	g. Ductwork.	NA	
	h. Registers	NA	
	i. Lights.	NA	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	A13	A14	A15	A16	
Location:	INSIDE	INSIDE	INSIDE	INSIDE	
Volume (Liters):	1200	1200	1200	1200	
Flow rate: (Liters/Minute)	10.0	10.0	10.0	10.0	
Fibers/Filter:	0	2	1	0	
Fibers/Cubic Cm:	<0.01	<0.01	<0.01	<0.01	

ANALYST ANALYZING SAMPLES: J Eudenbaul DATE: 6/19/94

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No problems Encountered

Report Prepared By: J Eudenbaul Date: 6/19/94

REPORT REVIEWED BY: _____ DATE: _____

Tracor Technology Resources | **Air Sample Sheet**

Project # 6.4.8.6.0.1.2

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	146694	01		2.5			0515	1218	423	1058	3.5	100		3.5	0.002
A	Notes: Area Sample - North Side Central / ON CHAIR														
B	146794	02		2.5			0515	1219	424	1060	2	100		2	(0.001)
B	Notes: Area Sample - North Side Central / ON WALL														
C	146894	03		2.5			0515	1208	413	1062	0	100		0	(0.001)
C	Notes: Area Sample - South Side Central - ON TOP OF Stairwell Door														
D	146994	04		2.5			0515	1223	428	1070	31.5	100		31.5	0.01
D	Notes: Area Sample - ON TOP OF DECON														

.014

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

			1	
1				.5
				1

B

			1	1

C

D

.5		1		1
	1.5			
1			.5	1
1				
	1			
1				.5
	.5			
			.5	1
	1	1		
	1	2		
.5		1		1
.5	2			.5
.5				1
.5		1		
			.5	
	1	1		
1				.5
		1		
	1			

FIELD TECH. DATE

ANALYST DATE

Tracor Technology Resources | **Air Sample Sheet**

1601 Research Boulevard
Rockville, Maryland 20850

Project # 6486012

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	147094	05		2.5	2.5	2.5	0515	1023	488	1070	9.5	100		9.5	0.009
A	Notes: AREA Sample - DH Wall - Door 3103 - Outside Decon														
B	147194	06	01	2.5	—	—	0805	—	—	—	—	—	—		
B	Notes: AREA Sample - inside barrier Sample Tampered VOID														
C	147294	07	16	2.5	2.5	2.5	1402	2115	433	1082.5	2	100	0	2	≤.005
C	Notes: AREA sample - outside critical 3rd floor hallway														
D	147394	08	93	2.5	2.5	2.5	1402	2115	433	1082.5	2.5	100	0	2.5	≤.005
D	Notes: AREA sample - outside critical - in office area														

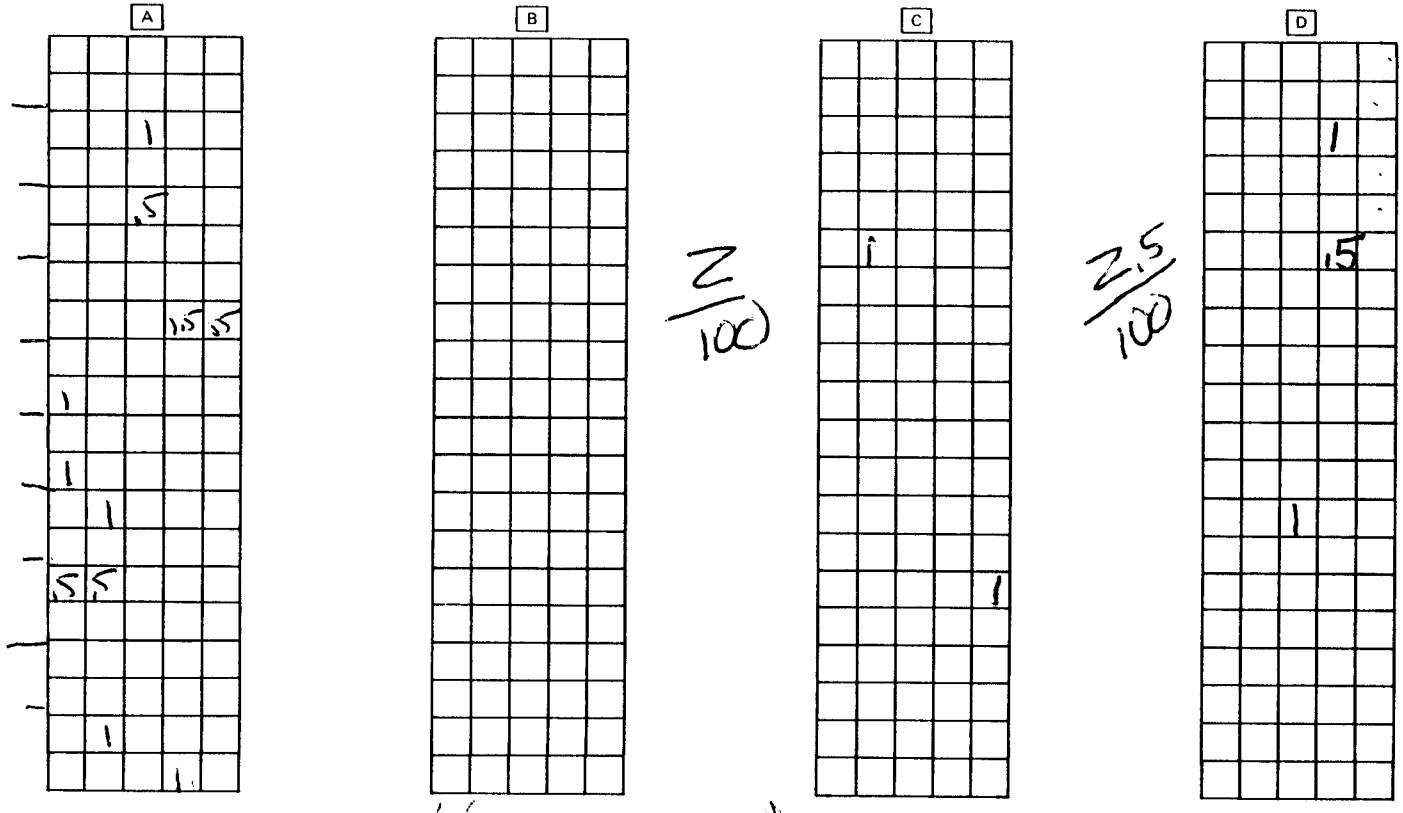
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



FIELD TECH. DATE 11/1/94 ANALYST DATE 11/4/94

Tracor Technology Resources — **Air Sample Sheet**

Project # 648601a

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	147494	09	14	2.5	2.5	2.5	1403	2115	432	1080	4	100	0	4	≤.005
A	Notes: AREA SAMPLE - OUTSIDE EXHAUST STACK 4														
B	147594	10	23114	2.5	2.5	2.5	1400	2115	435	1087.5	13.5	100	0	13.5	.006
B	Notes: AREA SAMPLE - TOP OF DELON														
C	147694	11	23949	2.5	2.5	2.5	1400	2115	435	1087.5	9.5	100	0	9.5	≤.005
C	Notes: AREA SAMPLE - DOOR 3012 outside delon														
D															
D	Notes:														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

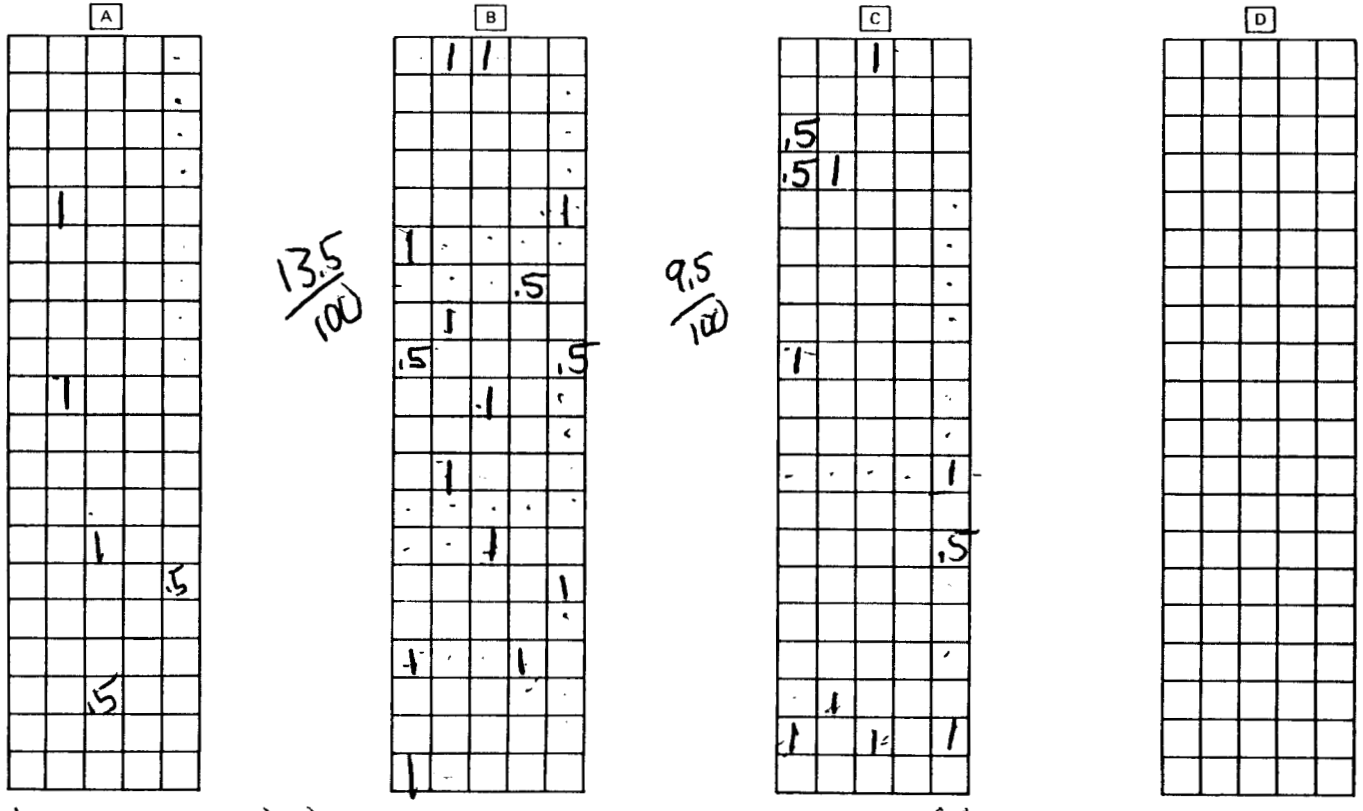
Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A: 4/100

B: 13.5/100

C: 9.5/100

D:



FIELD TECH. 7/5/94 DATE

ANALYST 7/14/94 DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6,4,8,6,0,1,2

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Flow Calibration Mean (Liters/Min)	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	148194	16													
A	Notes: BLANK														
B	148294	17													
B	Notes: BLANK														
C															
C	Notes:														
D															
D	Notes:														

Field Area: (Check One)
- ☒ .00785
- ☐ .00754
- ☐ .00724
- ☐ .00801
- ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size
- ☒ 25 mm (385 sq mm)
- ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

B

C

D

FIELD TECH. 7/12/94 DATE

ANALYST 7/12/94 DATE

Page # 1

LOG SHEET

Date: July 8th & 9th 1994

Project Number: 6486-012

Industrial Hygienist: M. Brower

Abatement Contractor/Supervisor: Retro / Ronald

Time	Remarks
1900-	On Site But Left To Drop Some Equipment
	off on Another Job (Mary Switzer Building)
2130-	On Site At NEOB to Find Retro on Lunch
	Break.
2230-	Workers Continue to Set-up Area
2400-	Workers Continue Set-up. Poly on floors is
	Completed At this time
0100-	Prep Continues
0200-	Workers Ceiling off Door Areas & Walls
	& Also Hanging Criticals.
0300-	Workers Moving In Negative Air Filtration
	Devices & Starting to Construct Decon.
0400-	Workers Hooking-up Decon With Water
	& Drain Pump.
0445-	Containment Ready For Inspection
0515-	Area Samples Running - fitters & electricians
	are Working At This Time
0600-	Ceiling tiles coming out
0700-	Barry Hemler on Site - Brower off
	Site.

Page # 3

LOG SHEET

Date: July 9th & 10th 1994

Project Number: 6486-012

Industrial Hygienist: M. Brower

Abatement Contractor/Supervisor: Retro/Bob

Time	Remarks
1900 -	Brower on Site - Ceiling tile being put in
	At this time - filters Are Gone
2000 -	Ceiling tiles Continue to be INSTALLED
2100 -	Retro Night Crew ON Site - they will Go into
	Containment & Start to fine clean
2200 -	Ceiling tile men & ARE off Site - Retro Continues
	to fine Clean
2300 -	I conduct final Visual & Retro will Spray the
	Area
2340 -	Final Air Samples Running At this time
0200 -	Final Air Samples Passed - I will Pack up
	equipment & off Site
0230 -	Brower off Site

Page # 2

LOG SHEET

Date: 7/9/94

Project Number: 6486 012

Industrial Hygienist: B. Hamler

Abatement Contractor/Supervisor: Retro / Bob Reeves

Time	Remarks
0700	On site, workers removing ceiling tiles from barrier w/ fire
0730	All ceiling tile removed from barrier, neg pressure -0.036, Automatic begin taking pump into barrier w/ fire.
0800	Work continues, neg pressure -0.024 set up inside sample all fine
0900	Automatic taking break, Retro done cleaning grid. all fine neg pressure -0.032
1000	Work continues all fine
1100	Retro cleaning lights work continues all fine neg pres -0.028
1200	Elec crew going for lunch, Automatic continues w/ fine neg pressure -0.036
1300	Electricians pass inspection light cleaning and sprinkler work continue neg pressure -0.028 all fine Inside sample Terminated with - sample weighed (28.4 grams Jammed in cassette)
1400	Retro begun removing lights, All fine neg pressure -0.024
1500	Continue removing lights w/ fine, start pressure test
1600	All light equip out of barrier, Retro bringing up rear CT all fine
1700	Retro sending tile into barrier all fine
1800	Passed pressure test all fine
1900	End of shift

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEOB

Project: 6486 - 012

Location: 3RD FLOOR EAST Side

Date: 7/9/94

Removal Contractor: RETRO

Time Inspected: 0445

Monitoring Contractor: TRACOR

Time Work Started: 0500

Inspection Catagory	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. Seals around ducts, windows and doors	yes	
	d. Vertical and Horizontal Openings	yes	
	e. "Microtrap" in use	yes	
	f. Negative pressure > .02"	yes	
2. Signage	a. Caution Signs at vestibule entry.	NO	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection			
	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: [redacted] Date: 7/9/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: 6486-012

Location: 3RD FLOOR / EAST Side

Date: 7/8/94 & 7/9/94

Removal Contractor: RETRO

Time Started: 1900 - 7/8/94

Monitoring Contractor: TRACOR

Time Stopped: 0700 - 7/9/94

Inspection Catagory	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	NO	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure ~~.03"~~ .02"	yes	
2. Signage	a. Caution Signs at vestibule entry.	NO	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No Problems Encountered - Set-up for Most of the shift

Report Prepared By: [signature] Date: 7/9/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6490 012

Location: 3rd Floor Date: 7/9/94

Removal Contractor: Retro Time Started: 0700

Monitoring Contractor: Trover Time Stopped: 1900

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimetar Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	NA	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: B Hemler Date: 7/9/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 3rd floor/ East Side Date: 7/9/94 & 7/10/94

Removal Contractor: Retro Time Started: 1900 - 7/9/94

Monitoring Contractor: TRACOR Time Stopped: _____

Inspection Catagory	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	NO	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure ≥ .03" > .02"	yes	
2. Signage	a. Caution Signs at vestibule entry.	NO	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 7/9/94

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: C4806-012

Location: 3RD floor / East Side Date: 7/9/94

Removal Contractor: RETRO Time Inspected: 2300

Monitoring Contractor: TRACOR Time Completed: 2315

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	yes	
	b. Horizontal Surfaces.	yes	
	c. Pipes.	N/A	
	d. Ventilation Equipment.	yes	
(above eye level)	e. Horizontal surfaces.	yes	
	f. Pipes.	N/A	
	g. Ductwork.	yes	
	h. Registers	yes	
	i. Lights.	yes	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	12	13	14	15	
Location:	—	—	—	—	
Volume (Liters):	1200	1200	1200	1200	
Flow rate: (Liters/Minute)	10.0	10.0	10.0	10.0	
Fibers/Filter:	2	3	3.5	2	
Fibers/Cubic Cm:	≤.004	≤.004	≤.004	≤.004	

ANALYST ANALYZING SAMPLES: [signature] DATE: 7/10/94

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 7/10/94

REPORT REVIEWED BY: _____ DATE: _____

Tracor Technology Resources — **Air Sample Sheet**

Project # 6 4 8 6 0 1 2

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	149994	01	27	2.5	2.5	2.5	3:40	10:20	400	1000	34	100	0	34	.016
A	Notes: INSIDE 3rd Floor Containment														
B	150094	02	29	2.5	2.5	2.5	3:40	1040	420	1050	6	100	0	6	≤.004
B	Notes: outside Decon Entrance														
C	150194	03	5972	2.5	2.5	2.5	3:46	1040	414	1035	3.5	100	0	3.5	≤.005
C	Notes: outside Critical Barrier Stairwell #1														
D	150294	04	5969	2.5	2.5	2.5	3:48	1040	412	1030	2.5	100	0	2.5	≤.005
D	Notes: outside Stairwell #1														

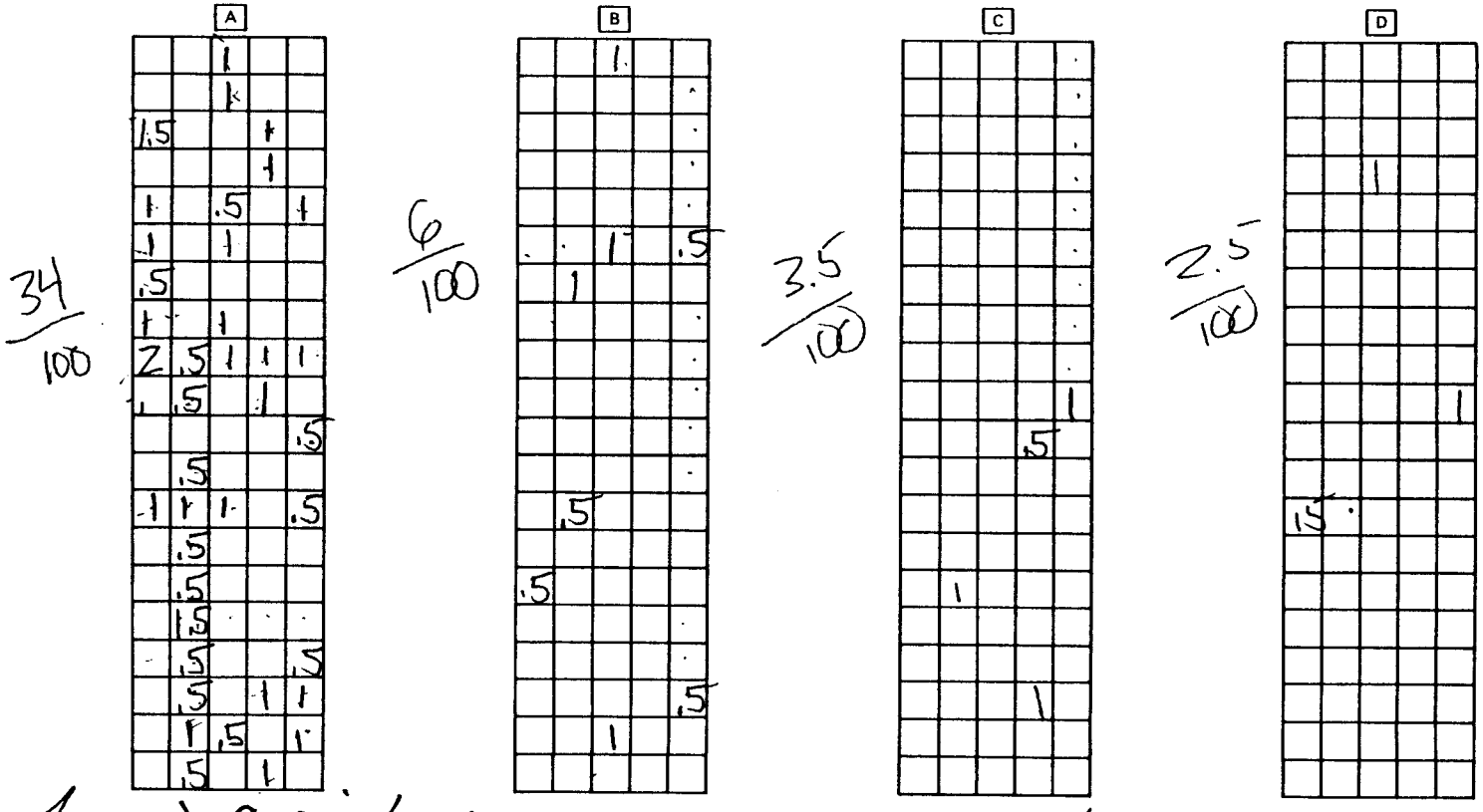
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Joseph D Eichenlaub — FIELD TECH. — DATE

ANALYST — 7/30/94 DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6486012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	150394	05	5113	2.5	—	—	3:54	—	—	—	VOID				
A	Notes: Outside Critical Barrier Hallway Room 3210														
B	150494	06	5112	2.5	2.5	2.5	3:56	1040	436	1090	3	100	0	3	≤.004
B	Notes: Outside Critical Barrier Inside Room 3210														
C	150594	07	27	2.5	2.5	—	10:20	—	—	—	—	—	—	—	— → VOID
C	Notes: Inside Containment														
D	150694	08	—	—	—	—	—	—	—	—	0	100			
D	Notes: BLANK														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

VOID
Pump HALT

B

3/100

.5
1
1
.5

C

0/100

D

Joseph S Eichenlaub
FIELD TECH. DATE

ANALYST DATE 7/30/94

Tracor Technology Resources | **Air Sample Sheet**

Project # 6481601 12

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc	
A	150794	09	—	—	—	—	—	—	—	—	0		0			
A	Notes: BLANK															
B	150894	10	23	2.5	2.5	2.5	1215	1615	240	600	2	100	0	2		<0.01
B	Notes: Outside Decon Entrance															
C	150994	11	23884	2.5			1215	10:00	585	1462	0	100	0	0		<0.01
C	Notes: Outside-Critical Barrier Stairwell #1															
D	151094	12	15	2.5			1215	9:58	583	1451	4	100	0	4		<0.01
D	Notes: Outside - Stairwell #1															

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre + Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{\text{(Net Count/100) x Filter Area}}{\text{Field Area x Volume x 1000}}$

A

B

1

1

C

D

1

1

1

1

FIELD TECH. DATE

Joseph D Eudelak
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 648601 2

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc	
A	151194	13	20	2.5	2.5	2.5	1215	10:05	590	1475	5	100	5	5		<0.01
A	Notes: Outside Critical Barrier - In Hallway By Room 3210															
B	151294	14	16	2.5	2.5	2.5	1215	10:05	590	1475	2	100	0	2		<0.01
B	Notes: Outside Critical Barrier Inside Room 3210															
C	151394	15	759	10.0	10.0	10.0	1050	1250	120	1200	0	100	0	0		<0.01
C	Notes: Final															
D	151494	16	753	10.0	10.0	10.0	1050	1250	120	1200	0	100	0	0		<0.01
D	Notes: Final															

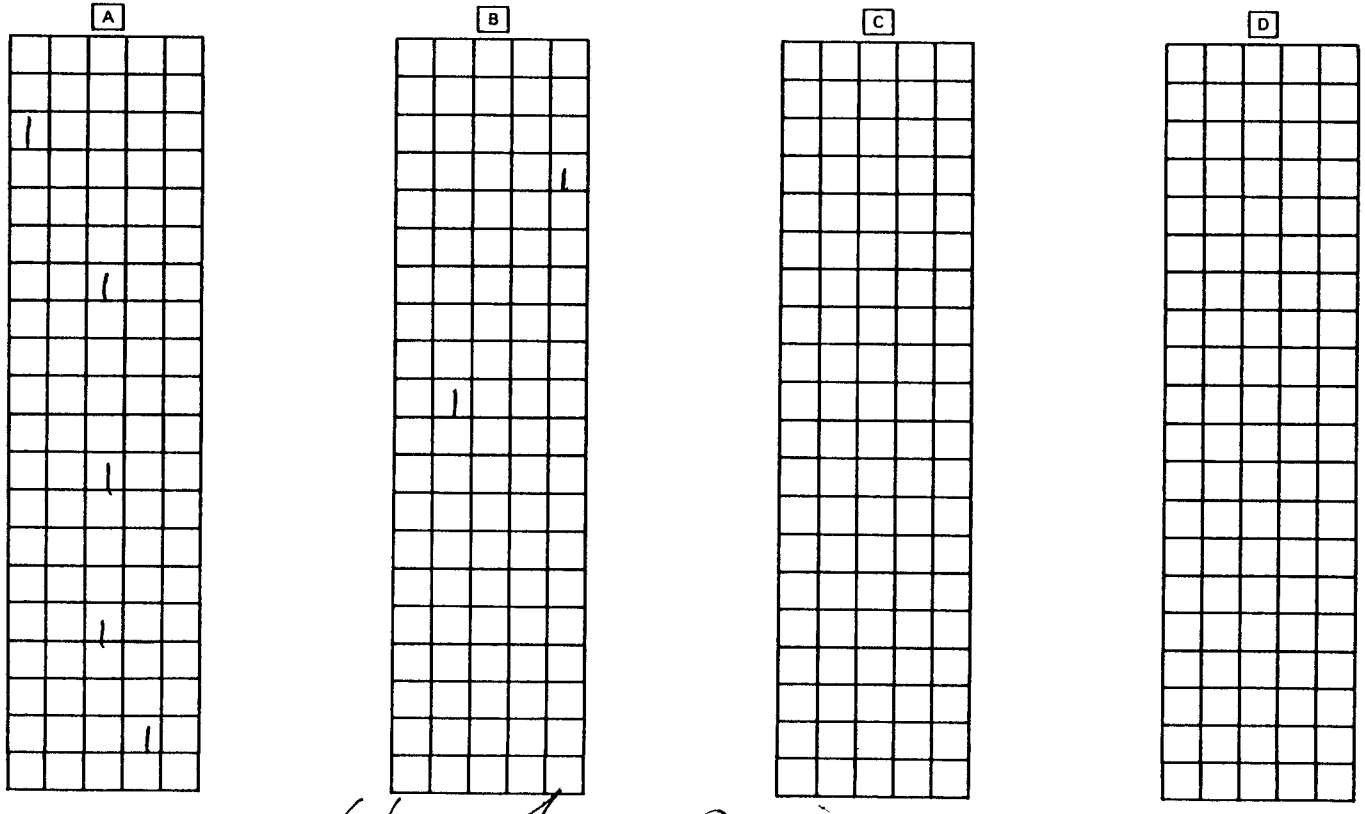
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



FIELD TECH. 7/30/94 DATE

Joseph D Eckenland ANALYST DATE

Tracor Technology Resources | **Air Sample Sheet**

Project # 6.4.8.6.6.1.2

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc	
A	151594	17	3260	10.0	10.0	10.0	1050	1250	120	1200	4	100	0	4		0.01
A	Notes: Final															
B	151694	18	793	10.0	10.0	10.0	1050	1250	120	1200	2	100	0	2		0.01
B	Notes: Final															
C																
C	Notes:															
D																
D	Notes:															

Field Area: (Check One) ☐ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

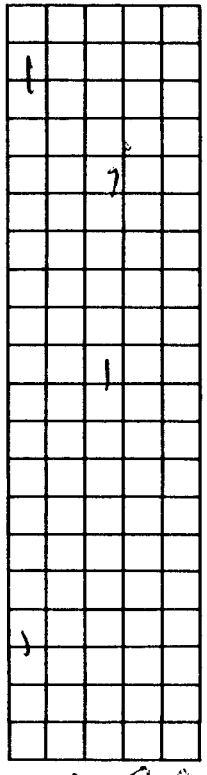
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☐ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

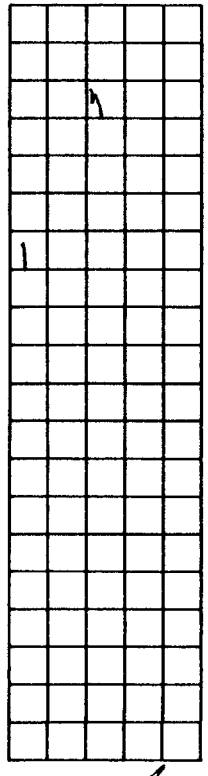
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

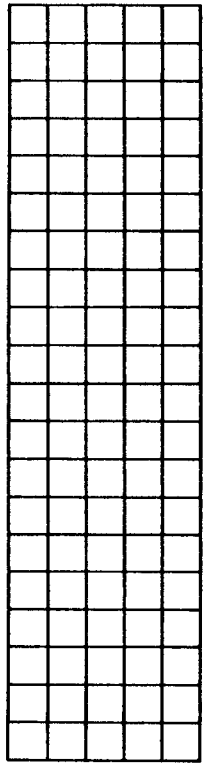
A



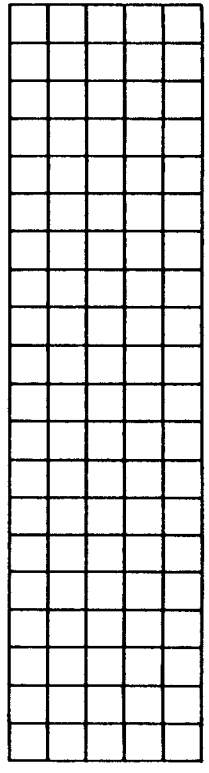
B



C



D



Joseph D Eichenlaub
FIELD TECH. DATE

Joseph D Eichenlaub
ANALYST DATE

Page # 1

LOG SHEET

Date: July 29th - July 30th - NIGHT SHIFT

Project Number: 6486-012

Industrial Hygienist: Joseph D Eichenlaub

Abatement Contractor/Supervisor: RETRO

Time	Remarks
7:00	arrived At NEOB - RETRO WORKERS ON site
8:00	RETRO WORKERS building CONTAINMENT AREA on the 3RD Floor.
9:00	No problems encountered SAME AS ABOVE
10:00	Workers take lunch
10:30	Workers Cont. to Build 3RD Floor Containment
11:30	No problems work Building Containment
12:30	No problem Union light & Power Workers are on site moving lights up to the 3RD Floor and stocking areas. RETRO workers are finished with the offices and are Working on the Hallway and setting up negative pressure exhaust units
1:30	SAME AS ABOVE
2:30	No problems encountered workers are Setting up Decontamination Unit and negative pressure exhaust units
3:00	Containment on the 3RD Floor is Completed
3:15	Initial inspection passes.
3:56	all outside and inside panels are setup negative pressure. -0.028
5:00	Workers are inside the Containment removing Ceiling tiles Automatic workers on site
5:30	Ceiling tile Removal Completed Automatic & Union light & Power inside Containment
6:30	No problems workers inside doing their thing Automatic & Union light & Power.

Page # 2

LOG SHEET

Date: July 30th 1994. Day Shift

Project Number: 6486-012

Industrial Hygienist: Michael Brower

Abatement Contractor/Supervisor: Retro/Terry

Time	Remarks
0700-	Brower On Site - Sprinkler & electrical
	Crew Are Inside Containment Working
0800-	Joe Eichenlaub off Site - Work Continues
0915-	C.I.H On hand Kim on Site (Tracor) to
	Conduct C.I.H Inspection. Negative pressure
	Deaped below .02 for about 40 min last
	Night - I tell Ms. Kim that this was
	most likely to Perimiter Ceiling tiles being
	taken out in order to Construct Criticals
	Above the Ceiling - 0935 Ms. Kim off Site
10:00 -	Brower Enters Containment
10:30 -	Brower Out of Containment - Everything
	looks Good Inside - I did Not Find A
	Large Amount of ACM on the Floor.
11:30 -	Reading First Set of Area Samples
12:30 -	Electricians Completed At this time & off
	Site. Fitters Still Working on Sprinkler
	Pipe.
1330 -	Fitters Continue to hang Pipe
1430 -	Pipe Work Continues
1530 -	Coakly On Site to Hang Ceiling tile
1630 -	Pressure test on - Coakly Continues to hang ceiling tile
1730 -	Pressure test to be off At 1800
1800 -	Pressure test off Eichenlaub on Site.
1900 -	Brower off Site

Page #_____

LOG SHEET

Date: July 30 1994

Project Number: 6486012

Industrial Hygienist: Joseph D Eichenlaub

Abatement Contractor/Supervisor: RETRO

Time	Remarks
7:00 pm	Arrived on the 3rd Floor No problems
	all of the Sprinkler and Electrical work
	is Completed - Ceiling tile Crew inside
	and are almost Completed
8:00	Ceiling tile Replacement Completed
9:00	Retro Workers arrive
9:30	Workers are inside the Containment
	area final Cleaning
10:30	Final visual inspection passes
	workers encapsulate the Containment
10:50	Final air samples are setup No
	problems encountered
12:50	Final air Samples Collected
1:30	Final air Samples

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NEDB Project: 6486-012

Location: 3rd Floor Date: July 1994

Removal Contractor: RETRO Time Inspected: 3:15 Am

Monitoring Contractor: TRACR Time Work Started: 4:20 Am

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	18	
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA 1/2 face PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No problems encountered

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: Joseph D Eichenlaub Date: _____

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6482-012

Location: 3rd Floor Date: July 1994

Removal Contractor: RETRO Time Started: 7:00 pm

Monitoring Contractor: TRACOR Time Stopped: 7:00 Am

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	NA	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	18	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	NA	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Matarial Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ½ face PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No problems Encountered

Report Prepared By: Joseph D Ashenfel Date: _____

1 IH

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB

Project: 6486-012

Location: 3RD Floor SW Side

Date: 7-30-94

Removal Contractor: Retro

Time Started: 9:15

Monitoring Contractor: TRACOR

Time Stopped: 9:35

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	fluctuating	due to removal of perimeter ceiling tile but overall acceptable
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ●	
		HEPA ✓	
		PAPR	
		TYP "C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 7-30-94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 3rd floor SW Side Date: 7/30/94

Removal Contractor: RETRO Time Started: 0700

Monitoring Contractor: TRACOR Time Stopped: 1900

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	NO	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > ~~.03"~~ .02"	yes	
2. Signage	a. Caution Signs at vestibule entry.	NO	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Matarial Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [signature] Date: 7/30/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEDB

Project: 6486-012

Location: 3rd floor

Date: July 30 1994

Removal Contractor: RENO

Time Started: 7:00 pm

Monitoring Contractor: MR

Time Stopped: 700 Am

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	NA	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	18	
	f. Negative pressure > .03"		
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ½ face PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No problems encountered

Report Prepared By: Joseph D Eckenlaub Date: 7/31/94

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEDB Project: 6486 012

Location: 3rd Floor Date: July 30 1994

Removal Contractor: RETCO Time Inspected: 10:30

Monitoring Contractor: TTR Time Completed: _____

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	NA	
	d. Ventilation Equipment.	NA	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	NA	
	g. Ductwork.	NA	
	h. Registers	NA	
	i. Lights.	NA	

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	15	16	17	18	
Location:	INSIDE	INSIDE	INSIDE	INSIDE	
Volume (Liters):	1200	1200	1200	1200	
Flow rate: (Liters/Minute)	10.0	10.0	10.0	10.0	
Fibers/Filter:	0	0	4	2	
Fibers/Cubic Cm:	0.01	0.01	0.01	0.01	

ANALYST ANALYZING SAMPLES: Joseph D Eichenlaub DATE: 7/31/94

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

No problems encountered

Report Prepared By: Joseph D Eichenlaub Date: 7/31/94

REPORT REVIEWED BY: _____ DATE: _____

TRACOR

Tracor Technology Resources, Inc.
1601 Research Boulevard
Rockville, MD 20850-3173
301 251-4911

DEC 21

Project No.: 6486-012A
Serial No.: JG-94-129
ACT No.: P05554577

95-179
Reviewed/Mailed
DEC 27
T.S./WPXE
0C010522
CANOFILE: 941212

December 12, 1994

Ms. Normajean Eleazer
GSA, NCR, WPX, Room 2036
7th and D Streets, SW
Washington, DC 20407

Subject: PROGRESS REPORT XVI - ASBESTOS MONITORING - NEW EXECUTIVE OFFICE BUILDING

Dear Ms. Eleazer:

This is a progress report on the asbestos abatement project that occurred in the New Executive Office Building on the 1st, 2nd, 3rd, and 7th floors and 1B garage level on June 10-12, August 19-21, October 6, 11-12, 14-16, 17-18, 21-23, 28-30, November 15-16, 18-20, 29-30 and December 2-4, 1994.

Personnel from Tracor Technology Resources, Inc. (TTR) monitored Retro Environmental, a licensed asbestos abatement contractor, removing approximately three thousand, nine hundred and sixty (3,960) square inches of asbestos containing deck insulation, utilizing mini and full containment procedures.

The Industrial Hygiene Consultant's responsibilities include conducting inspections of the worksite, assessing work practices, and collecting air samples. A total of one hundred eighty-nine (189) air samples were collected. This project consisted of ten (10) start up, twenty-eight (28) daily, fifteen (15) final and five (5) CIH inspection checklist reports.

The TTR Industrial Hygienist conducted daily air monitoring to determine work area fiber concentrations, and fiber levels outside the work area. In addition, the Industrial Hygienist conducted final inspections and clearance air testing. All final clearance air samples were below the required EPA level of 0.01 fibers per cubic centimeter (0.01 f/cc).

Air sample collection measurement and analysis followed the NIOSH 7400 Method A Rules. Air sampling pumps were calibrated both before and after collecting each sample set. Area samples were taken at ≥2.5 liters per minute, and all clearance samples were taken at 10.0 liters per minute.

Sample number 12-15 from the weekend of October 28-30, 1994 were taken to an outside laboratory for TEM analysis. All results were reported to be within AHERA regulations.

Please find enclosed air sampling data, daily and final checklists, and all daily log notes.

If you should have any questions or need additional information, please call. We can be reached at (301) 251-4921.

Sincerely,

TRACOR TECHNOLOGY RESOURCES, INC.

Prepared by:

John Golombieski III
Industrial Hygienist

Technical Review:

Michael J. Larsen, CIH
President

JG:srp

Enclosures

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

06/1[illegible]94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
6486012	123394	1	06/11/94	INS	0.138
6486012	123494	2	06/11/94	OUT	0.006
6486012	123594	3	06/11/94	OUT	0.082
6486012	123694	4	06/11/94	OUT	0.007
6486012	123794	5	06/11/94	OUT	< 0.005
6486012	123894	6	06/11/94	OUT	< 0.005
6486012	123994	7	06/11/94	OUT	BLANK= 0.00
6486012	124094	8	06/11/94	OUT	BLANK= 0.00
6486012	124194	9	06/11/94	INS	0.006
6486012	124294	10	06/11/94	OUT	< 0.004
6486012	124394	11	06/11/94	OUT	< 0.004
6486012	124494	12	06/11/94	OUT	< 0.006
6486012	124594	13	06/11/94	OUT	0.007
6486012	124694	14	06/11/94	OUT	< 0.004
6486012	124794	15	06/11/94	FIN	< 0.005
6486012	124894	16	06/11/94	FIN	< 0.005
6486012	124994	17	06/11/94	FIN	< 0.004
6486012	125094	18	06/11/94	FIN	< 0.004
6486012	125194	19	06/11/94	FIN	< 0.004
6486012	125294	20	06/11/94	FIN	< 0.004

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL L. EDWARDS
LABORATORY MANAGER

Tracor Technology Resources — Air Sample Sheet

Project # 6,4,8,6,0,1,2

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	123394	01	92-24	2.5	2.5	2.5	0510	1146	396	990	111.5	40	0	279	0.14
A	Notes: INSIDE - WORK AREA														
B	123494	02	92-24	2.5	2.5	2.5	0512	1147	395	988	13	100	0	13	0.01
B	Notes: AT DECONTAMINATION UNIT														
C	123594	03	23119	2.5	2.5	2.5	0516	1154	398	995	125.5	75	[illegible]	167	0.08
C	Notes: SITE WELL #4 → [illegible] FLOOR														
D	123694	04	23192	2.5	2.5	2.5	0520	1148	388	970	14	100	0	14	0.01
D	Notes: RICHARD BAUER'S OFFICE - inside Room 7P15														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre + Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

3	3	2.5	1	5
3.5	3	5	1	7
4	2.5	4	2	3
4	2	3	1	2
2.5	3	3	4	4
5	1	2	1	2.5
3	3	2.5	1	1.5
1	2.5	2.5	2	3

B

		1		
		1		.5
.5				
		1		
			1	
		1	1	
1				
1				
			1	
	1			
				1
	1			

C

1		1	1	1
2	3	1	2	2
.5	2	1.5	1	1
3	3	1	.5	1
2	1	2	1	—
1	2	3	1	2
—	4	2	—	—
1	2.5	2	2	2
2	—	1	3	2
1	1	2.5	1.5	3.5
1.5	2.5	1	2	7
1.5	3	3	2	.5
1	2	4	1	2
2.5	2	2	2	2
—	1	-	3	1

D

1				
	2			
	1			
		1	1	1
1				
	1			
			1	
	1			
				1
	1			
1				

SCOTT DUNN 6/11/94
FIELD TECH. DATE

[signature] 6/11/94
ANALYST DATE

Tracor Technology Resources — Air Sample Sheet

Project # 6,4,8,6,0,1,2

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	123794	05	23872 ~~25~~	2.5	2.5	2.5	0521	1148	387	968	6	100	0	6	0.003
A	Notes: AT PETER NEWMAN'S DESK IN Room ~~7~~ 7015														
B	123894	06	92-16 2.5	2.5	2.5	2.5	0522	1149	387	968	3.5	100	0	3.5	0.002
B	Notes: AT CRITICAL BARRIER — Room 7015														
C	123994	07									0	100	—	—	
C	Notes: BLANK														
D	124094	08									0	100	—	—	
D	Notes: BLANK														

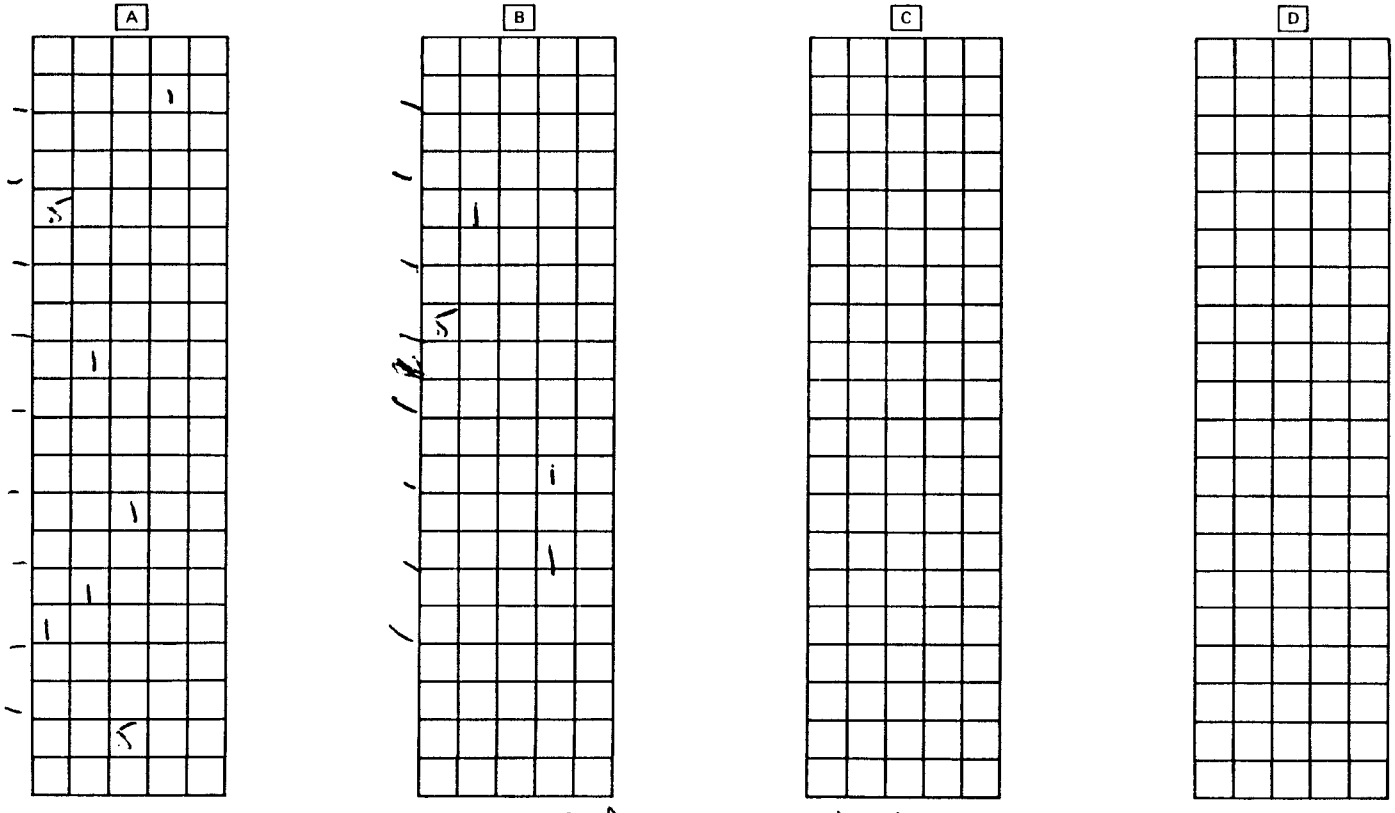
Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



SCOTT DUNN 6/11/94
FIELD TECH. DATE

B Wendler 6/11/94
ANALYST DATE

Tracor Technology Resources — Air Sample Sheet

Project # 6486.012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	124194	09	9234	2.5	2.5	2.5	1315	2033	438	1095	13	100	0	13	.006
A	Notes: Inside work area														
B	124294	10	9222	2.5	2.5	2.5	1318	2034	436	1090	8	100	0	8	<.004
B	Notes: AT Decon unit														
C	124394	11	5112	2.8	2.8	2.8	1327	2000	397	1112	9.5	100	0	9.5	<.004
C	Notes: Stairwell #4 7th floor														
D	124494	12	9215	1.9	1.9	1.9	1321	2030	429	816	2	100	0	2	<.006
D	Notes: Richard Barrie's office - inside Room 7015														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre + Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{\text{(Net Count/100) x Filter Area}}{\text{Field Area x Volume x 1000}}$

A

			1	
1				
	1/2		1/2	
	1			1
1				
		1/2	1/2	
				1
1			1/2	
				1
1				
				1

B

1	1/2		1	
		1		1
	1/2			
		1		
				1
				1

C

	1/2			
1			1	
		1		1/2
	1/2			
			1	
1		1		
	1/2		1/2	
1/2		1/2		

D

	1			
				1

Tracor Technology Resources — Air Sample Sheet

Project # 6456-012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	124594	13	23193	3.3	3.3	3.3	1321	2030	429	1416	20	100	0	20	.007
A	Notes: Room 7015 – Peter Newman's Desk														
B	124694	14	5467	2.7	2.7	2.7	1323	2031	428	1156	3.5	100	0	3.5	<.004
B	Notes: Room 7015 – A Barrier														
C	124794	15	91-1	10	10	10	1830	2000	90	900	1	100	0	1	<.005
C	Notes: Stairwell # 4 Area Final After Clean-up														
D	124894	16	1-2	10	10	10	1830	2000	90	900	1	100	0	1	<.005
D	Notes: Stairwell # 4 Area Final After Clean-up														

Field Area (Check One): ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Filter Size: ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A

1		1		1
	1		1	
		1		
1				1
	1		1	
		1		
1				
			1/2	1
	1/2			
1		1		1
			1/2	
1				
				1
				1/2

B

1		1		
				1/2
	1			

C

1				

D

1/2				
1/2				

Barry Kemble 6/11/94
FIELD TECH. DATE

Gola Siski 6-11-94
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 64860.1201

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Post	Liters/Min Mean	Time (Military) On	Off	Total (Min)	Volume	Count Data Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	124994	17	L-1	10	10	10	2455	0300	125	1250	1	100	0	1	<.004
A	Notes: North End										Final Air				
B	125094	18	L-2	10	10	10	2455	0300	125	1250	1.5	100	0	1.5	<.004
B	Notes: South End										Final Air				
C	125194	19	L-3	10	10	10	2455	0300	125	1250	0	100	0	0	<.004
C	Notes: West End										Final Air				
D	125294	20	L-4	10	10	10	2455	0300	125	1250	1.5	100	0	1.5	<.004
D	Notes: South West End										Final Air				

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

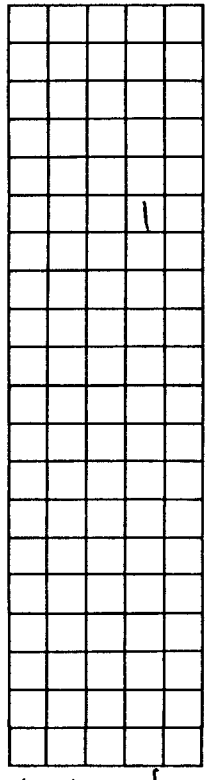
Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

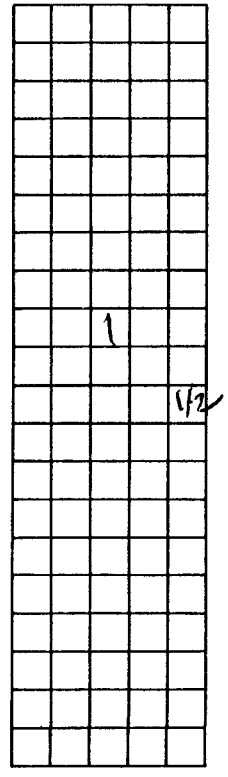
Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

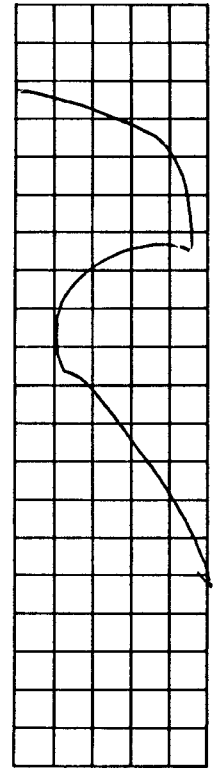
A



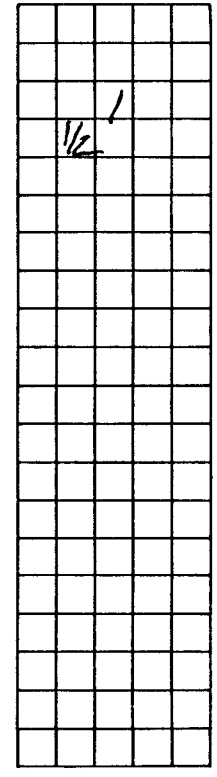
B



C



D



Golowkeski 6-12-94
FIELD TECH. DATE

Golowski 6/11-12/94
ANALYST DATE

Exhibit A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: New Executive Office Building Project: 6486-012

Location: 7th Floor - SE Corner Date: 6/11/94

Removal Contractor: RETRO Time Inspected: 0430

Monitoring Contractor: TTR Time Work Started: 0500

Inspection Catagory	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	✓	
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ___ TYP "C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: Scott Dunn Date: 6/11/94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEW EXECUTIVE OFFICE BUILDING Project: 6486-012

Location: 7th FLOOR - SE SIDE Date: 6/10/94 - 6/11/94

Removal Contractor: RETRO Time Started: 1900 6/10/94

Monitoring Contractor: TTR Time Stopped: 0700 6/11/94

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: SCOTT DUNN Date: 6/11/94

Page #_____

LOG SHEET

Date: 6/10-11/1994

Project Number: 6486-012

Industrial Hygienist: SCOTT DUNN

Abatement Contractor/Supervisor: RETRO / RONALD

Time	Remarks
1900-0430	WORKERS SET UP CONTAINMENT. COMPLETED AT 0430 ON 6/11/94.
0430	INITIAL INSPECTION PERFORMED - EVERYTHING LOOKS OK. NEG. PRESSURE AT -0.036" w.g.
0500	WORKERS BEGIN REMOVING CEILING TILES
0600	RELIEF ARRIVES (BARRY HEMLER). TILE REMOVAL CONTINUES

CIH Sample

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6456-012

Location: 7th Floor Date: 6/11/94

Removal Contractor: Retro Time Started: ——

Monitoring Contractor: Trinco Time Stopped: 5:00 Pm

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	0.032	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	N/A	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ HF PAPR TYP"C" ✓	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?		
	c. Used Each Departure?		
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Inspected the standard [illegible]
If 2nd sample ~~[illegible]~~ is still [illegible]
clean again

Report Prepared By: [illegible] Date: 6-11-94

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6456-012

Location: 7th Floor Date: 6/11/94

Removal Contractor: Retro Time Started: 0600

Monitoring Contractor: Tracor Time Stopped: 1800

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimetar Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"		✓
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	N/A	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	N/A	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ✓ HEPA ✓ PAPR TYP "C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Problem with neg pressure fan AHU turned off. See report

Report Prepared By: B. Henderson Date: 6/11/94

Page # 1

LOG SHEET

Date: 6/11/94

Project Number: 6-4816-012

Industrial Hygienist: B. Hemler

Abatement Contractor/Supervisor: Retro / Bob Reeves

Time	Remarks
0600	Shift begins, Retro removing ceiling tile, Automatic setting up. all fine
0620	neg pressure -0.024" went in to investigate. Only one trap was off, barrier fine, but supply AHU still on.
0640	neg pressure -0.012" waiting for escort so we can turn off AHU to east wing of 7th Floor. Visitors were waiting in lot of dust looking around CT onto dolly upon exiting barrier. Had them wet their bottom and be more careful.
0700	Automatic inside, Union also underway neg pressure -0.020" AHU has been shut off
0800	Pressure continues to fluctuate. one trap off, 2 on low & had hoses off. Put better flaps on. Pressure now at -0.028 and holding. Automatic still working lots of lights down as Union continues to work. All else fine
0900	Work continues with fine -0.028
1000	neg pressure -0.028
1030	Union taking lights out of ceiling in barrier hallway area. pressure drop to -0.024" neg pressure may drop further.
1100	Retro begins to remove lights from barrier
1145	Pulled up first set of pumps for analysis
1200	Automatic going to knock neg pressure -0.028"
1300	Began sealing samples after set up second set work continues with fine

Page # 2

LOG SHEET

Date: 6/11/94

Project Number: 1.4 Z6 - 012

Industrial Hygienist: B Henler

Abatement Contractor/Supervisor: Retro / Bob Reeves

Time	Remarks
1450	After reading samples on Event Stanwell # 4 has 0.03 A/cc
	have shut down Stanwell. Worker broke small hole
	in concrete with ~1000 hours. Sample in mustang air
	stream. Will down Stanwell 1 floor up 2 floors down
	whole stairs shut down though.
1500	Recon of stairs in progress
1530	neg pressure ~0.028" with the 2 Stanwell traps off.
	cleaning continues, filling sprinkler system with water for
	pressure test, Inspection for lights complete, new CT
	in hallway
1600	All fine
1700	CTH inspection cleaning of Stanwell near completion
1800	end of shift

Page # 1

LOG SHEET

Date: 6-11/12/-94

Project Number: 6486-012

Industrial Hygienist: [illegible]

Abatement Contractor/Supervisor: Retro / Ronald

Time	Remarks
1900	Relieve Barry Hanlee, Kathly bagging
	Ceiling Tile
1830	Set-up 7 Fibers in stairwell c/ due to
	high outside count
2000	Pulled + analyzed fibers outside / <.01 f/cc
2100	Retro on site cleaning, Kathly bagging
	tile
2230	Kathly finished / Retro Clean
2415	Final Inspection / Encapsulate
0100	Final Air Running
0300	Pulled final air
0400	TTR off site

Exhibit B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NEOB Project: 6486-012

Location: 7th Floor Date: 6/11-12/94

Removal Contractor: Retco Time Started: 1800

Monitoring Contractor: TPL Time Stopped: 0400

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .02"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.		
	b. Proper NIOSH respirators.	Disp HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [illegible] Date: 6/11-12/94

Exhibit C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NEOB Project: 6486-012

Location: 7th Floor Date: 6/11-12/94

Removal Contractor: RETRO Time Inspected: 2415

Monitoring Contractor: TTR Time Completed: 0300

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	✓	
	d. Ventilation Equipment.	✓	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.		
	g. Ductwork.	✓	
	h. Registers	✓	
	i. Lights.		

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	17	18	19	20	
Location:	N	S	W	SW	
Volume (Liters):	1200	1200	1200	1200	
Flow rate: (Liters/Minute)	10.0	10.0	10.0	10.0	
Fibers/Filter:	1	1.5	0	1.5	
Fibers/Cubic Cm:	<.004	<.004	<.004	<.004	

ANALYST ANALYZING SAMPLES: [illegible] DATE: 6/12/94

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [illegible] Date: 6-12-94

REPORT REVIEWED BY: _____ DATE: _____

TRACOR TECHNOLOGY RESOURCES, INC.
ROCKVILLE, MARYLAND 20850

11/17/94

SUMMARY REPORT

PROJECT #	LOG #	SAMPLE #	DATE COLLECTED	LOCATION	F/CC
6486012	230694	01	08/20/94	OUT	VOIDED
6486012	230794	02	08/20/94	OUT	0.006
6486012	230894	03	08/20/94	OUT	< 0.005
6486012	230994	04	08/20/94	OUT	< 0.005
6486012	231094	05	08/20/94	INS	0.139
6486012	231194	06	08/20/94	OUT	BLANK= 0.00
6486012	231294	07	08/20/94	OUT	BLANK= 0.00
6486012	231394	08	08/20/94	OUT	< 0.005
6486012	231494	09	08/20/94	OUT	< 0.005
6486012	231594	10	08/20/94	OUT	< 0.006
6486012	231694	11	08/20/94	OUT	< 0.020
6486012	231794	12	08/20/94	INS	0.027
6486012	231894	13	08/20/94	FIN	< 0.004
6486012	231994	14	08/20/94	FIN	< 0.004
6486012	232094	15	08/20/94	FIN	< 0.004
6486012	232194	16	08/20/94	FIN	< 0.004

KEY: BKG BACKGROUND
FIN FINAL CLEARANCE AIR
PER PERSONAL
GVB OUTSIDE AREA SAMPLE DURING GLOVE BAG REMOVAL
INS INSIDE CONTAINMENT
OUT OUTSIDE CONTAINMENT

APPROVED BY _____
MICHAEL L. EDWARDS
LABORATORY MANAGER

Tracor Technology Resources — **Air Sample Sheet**

Project # 648012

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	230694	81	81	2.5	—	—	0455	Pump Fail		—	—	—	—	—	—
A	Notes: Area Sample: #3rd floor, West side, Outside containment, at entrance to decon, rm. 3115														
B	230794	82	22	2.5	2.4	2.45	0456	1145	409	1002	13	100	0	13	0.006
B	Notes: Area Sample: #3rd floor, West side, Outside containment, In hallway beside rm. 3112.														
C	230894	83	31	2.5	2.4	2.45	0458	1145	407	997	1	100	0	1	<0.001
C	Notes: Area Sample: #3rd floor, West side, Outside containment, Inside room # 3203.														
D	230994	84	23A	2.5	2.5	2.5	0505	1145	400	1000	2	100	0	2	<0.001
D	Notes: Area Sample: #3rd floor, West side, Outside containment, In hallway beside rm. # 3206.														

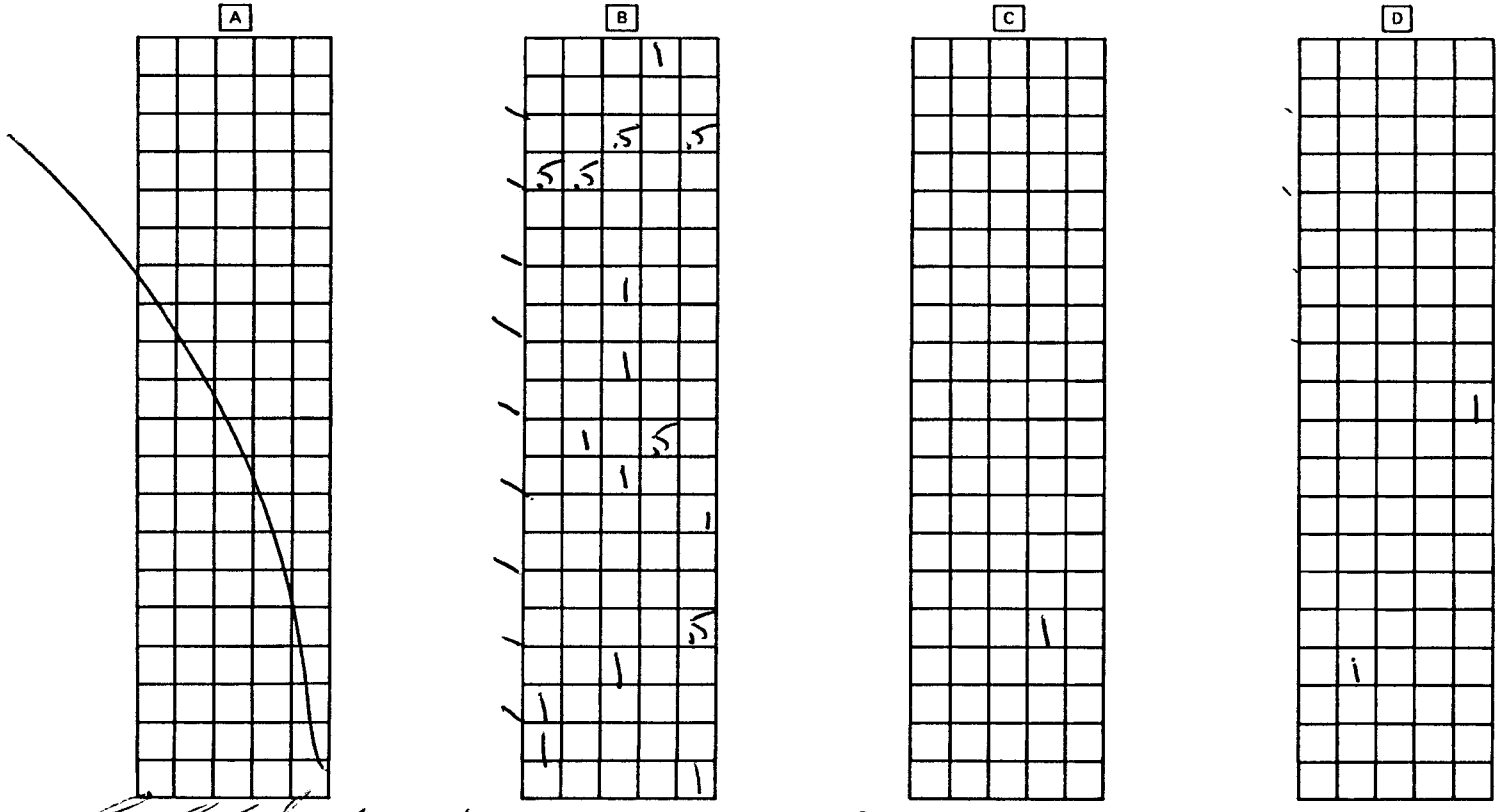
Field Area: (Check One) ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$



Jac A. Cutler 8/19/94
FIELD TECH. DATE

Barry Alexander 8/20/94
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 64,8,6,0,12

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Count Data: Fields Counted	Count Data: Blank Count	Count Data: Net Count	Fibers Per cc
A	23 09 94	85	23	2.5	2.5	2.45	0510	1145	395	968	110	40	0	275	0.14
A Notes:	Area Sample #3rd Floor, West side, Inside containment, beside rm. # 3208.														
B	23 11 94	86	—	—	—	—	—	—	—	—	0	100	—	—	—
B Notes:	Blank Sample														
C	23 12 94	82	—	—	—	—	—	—	—	—	0	100	—	—	—
C Notes:	Blank Sample														
D	23 13 94	08	578	2.5	2.5	2.5	1200	1830	390	975	4	100	0	4	<0.05
D Notes:	Area Sample – 3rd Floor outside decon – door sign 3113														

Field Area (Check One): ☑ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size: ☑ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

	A					B	C	D	
13	2	3	1	3	4			.5	.5
15	4	1	2	3	5				
20	6	4	3	3	4				
11	1	1	2	5	2				
13	3	1	2	2	5			.5	
15	4	3	5	1	2				
17	2	1	3	4	3				
10	2	1	1	2	4			.5	
								.5	
								.5	
								.5	
								1	

$\frac{4}{100}$

Carol A. Butler 08/19/94
FIELD TECH. DATE

Barry Henderson 8/20/94
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # [illegible]

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	23 14 94	09	687	2.5	2.5	2.5	1200	1830	390	975	7.5	100	0	7.5	<0.005
A	Notes: Area sample 3rd Floor - outside barrier door sign 3112														
B	23 15 94	10	588	2.6	2.6	2.6	1200	1830	326	~~815~~ 848	2.5	100	0	2.5	<0.006
B	Notes: Area sample 3rd Floor - outside barrier room 3203														
C	23 16 94	11	013	2.5	2.5	2.5	1200	—	100	250	1	100	0	1	<0.020
C	Notes: Area sample 3rd Floor - outside barrier door sign 3206														
D	23 17 94	12	61	2.5	2.5	2.5	1200	1830	390	975	54	~~54~~ 100	0	54	0.027
D	Notes: Area sample 3rd Floor - inside barrier near 3208														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre} + \text{Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

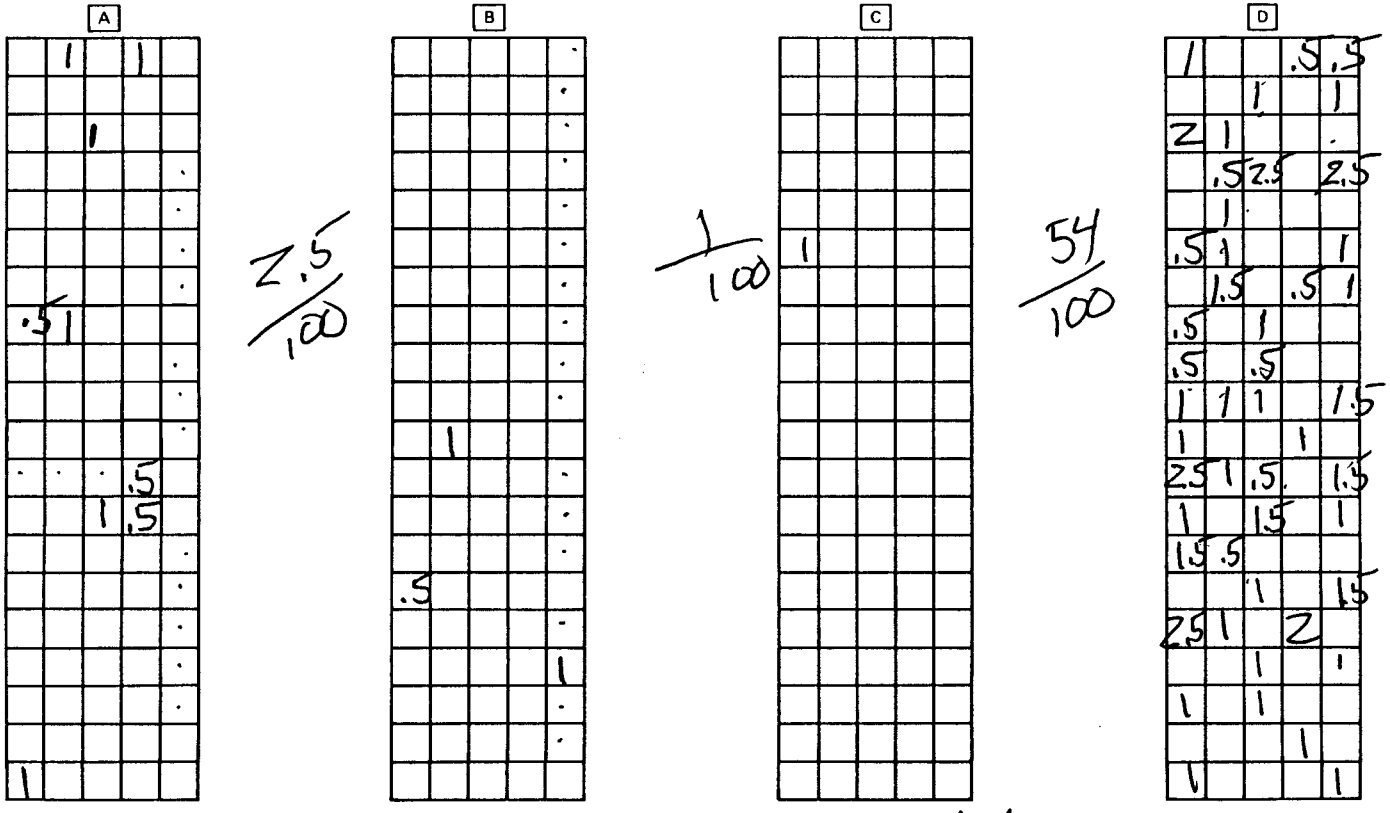
Fibers Per cc = $\frac{(\text{Net Count}/100) \times \text{Filter Area}}{\text{Field Area} \times \text{Volume} \times 1000}$

A: 7.5/100

B: 2.5/100

C: 1/100

D: 54/100



Barry [illegible] 8/20/94
FIELD TECH. DATE

[illegible] 8/20/94
ANALYST DATE

Tracor Technology Resources — **Air Sample Sheet**

Project # 6,4,8,6,9,1,2

1601 Research Boulevard
Rockville, Maryland 20850

	Log #	Sample #	Pump ID	Flow Calibration Pre	Flow Calibration Post	Liters/Min Mean	Time (Military) On	Time (Military) Off	Total (Min)	Volume	Count Data: Total Count	Fields Counted	Blank Count	Net Count	Fibers Per cc
A	2318 94	13	8	10.0	10.0	10.0	1140	0140	120	1200	1	100	0	1	0.004
A	Notes: FINAL AIR														
B	2319 94	14	16	10.0	10.0	10.0	1140	0140	120	1200	5	100	0	5	0.004
B	Notes: FINAL AIR														
C	23 20 94	15	2A	10.0	10.0	10.0	1140	0140	120	1200	3	100	0	3	0.004
C	Notes: FINAL AIR														
D	23 21 94	16	4	10.0	10.0	10.0	1140	0140	120	1200	2.5	100	0	2.5	0.004
D	Notes: FINAL AIR														

Field Area: (Check One) ☒ .00785 ☐ .00754 ☐ .00724 ☐ .00801 ☐ .00817

Calculations: Mean Flow = $\frac{\text{Pre + Post}}{2}$ Total Time = Off-On Volume = Total Time x Mean Flow

Filter Size ☒ 25 mm (385 sq mm) ☐ 37 mm (855 sq mm)

Net Count = $\left(\frac{\text{Total Count}}{\text{Fields Counted}} \times 100\right)$ - Blank Count

Fibers Per cc = $\frac{\text{(Net Count/100) x Filter Area}}{\text{Field Area x Volume x 1000}}$

A: 1/100

B: 5/100

C: 3/100

D: 2.5/100

FIELD TECH. DATE 8/20/94

ANALYST DATE 8/24/94

Page #_____

LOG SHEET

Date: Aug 19 1994

Project Number:

Industrial Hygienist: Carl A. Butler

Abatement Contractor/Supervisor: Retro Environmental Inc. Ronald Tuberghanna.

Time	Remarks
1825	Arrival onsite at the Executive Office Building.
1900	Retro Environmental Inc. personnel arrived onsite.
1930	Set-up was started on #3rd floor, West side.
2030	Set-up continues.
2115	Break
2130	Set-up continues.
Note:	Retro has #8 employee onsite.
2230	#30% of the containment has been completed. Set-up continues.
2315	Set-up in two area on West side
2430	Retro made one containment out of two area set-up continues.
0200	Set-up continues
0430	The asbestos abatement area, was pre-inspected Retro was informed by Carl Butler to start removal at 0445 hours.
0455	Environmental Air monitoring was started
0530	Removal continues, of ceiling tiles
0630	Removal of ceiling tiles has been completed
0700	TTR Hygienist Butler off site.
	8/20/94
	Carl A. Butler

Tracor Technology Resources

A-Sheet, B-Sheet Final Sheet

ASBESTOS PRE-ABATEMENT CHECKLIST

Building: New Executive Office Building Date: Aug 19 1994

Address: #725 #17 St. NW Washington DC.

Project Number/Description: Spot removal, inside full containment under negative pressure.

Company Performing Abatement Retro Environmental Inc.

Abatement Company Supervisor on Job: Ron Tubongbanua Title: Supervisor

Building Occupied: ____Yes ____No

Work-Site Preparation	Yes	No	Not Applicable
A. General			
1. Area non-accessible to general public	✓		
2. Sufficient fire/emergency exits	✓		
a. Fire/Emergency evacuation plan developed and reviewed with all abatement workers	✓		
3. Safety hazards reduced	✓		
a. Other safety aspects addressed:			
1. height	✓		
2. confined spaces	✓		
3. electrical	✓		
4. heat	✓		
5. cold	✓		
6. other	✓		
4. Work-Zone Area: Sq. Ft. ____ Cu. Ft. ____ Number of Rooms 12			
5. Pre-cleaning (Hepa/Wet Wipe)			
a. Moveable objects	✓		
b. Fixed objects	✓		
6. Temporary Waste Storage Area	✓		
7. Emergency Plan/Phone Numbers	✓		

Tracor Technology Resources, Inc. a subsidiary of Tracor, Inc. 1601 Research Boulevard Rockville, Maryland 20850
Telephone 301: 251 4911 Fax 301: 251 4917

Comments"

	Yes	No	Not Applicable
B. Signage			
1. Proper warning signs at entrances and exits	✓		
2. Dumpster Labeled		✓	

Comments: Retro has a truck onsite for removal of ACM bag's

C. Airlock-Decontamination Area			
1. Clean Room - 1st Stage			
a. Hangers/lockers, clothing storage provided	✓		
b. Double plastic flaps at entrance and exit	✓		
c. Asbestos bag for towel/cartridge disposal	✓		
2. Shower Area - 2nd Stage			
a. Showers operating	✓		
1) Hot Water Available	✓		
2) Cold Water Available	✓		
b. Shower waste water properly filtered	✓		
c. Double plastic flaps at entrance and exit	✓		
d. Clean, disposable towels available	✓		
e. Opaque Poly at exit/entrance	✓		
f. Soap, shampoo available	✓		
g. Disinfectant available	✓		
3. Equipment Room - 3rd Stage			
a. Double plastic flaps at entrance and exit	✓		
b. Asbestos bag for disposal of used suits	✓		

Comments:

	Yes	No	Not Applicable
D. Perimeter Barrier Preparation			
1. 6 ml plastic used	✓		
2. Floor plastic (2 layers)	✓		
3. Wall plastic	✓		
4. Proper sealing of:			
a. Doors	✓		
b. Windows	✓		
c. Ventilation Systems			✓
1) Vents			✓
2) Ducts			✓
3) Grilles			✓
4) System turned off	✓		
d. Pipes and conduit			✓ 1.)
e. Light Fixtures			✓
f. Sprinkler heads			✓
g. Any other openings into work area			✓
h. Other misc. fixtures/gauges, etc.			✓
i. Penetrations through ceiling into work area	✓		
5. Test Methods			
a. Smoke tubes	✓		
b. Visual	✓		

Comments:

1.) Due to the nature of this project these items weren't sealed.

E. Asbestos Removal Equipment

1. H.E.P.A. Filtered Vacuums

a. Number of units #4

b. Type Euro clean

c. H.E.P.A. filters present yes

d. Machine working hours 1850

e. Most recent date of H.E.P.A. filter change 7/15/94