

**CONSTRUCTION AIR
SAMPLE DATA**

**PAMP PCB SAMPLES ANALYTICAL RESULTS
HONEYWELL HIGHLAND PARK
HIGHLAND PARK, NEW JERSEY**

Analyte	CAS Number	Units	200-36957-1 AMS-4-011217 1/12/17
PCBs			
PCB-1016	12674-11-2	ug/m ³ PUF	0.073 U
PCB-1221	11104-28-2	ug/m ³ PUF	0.073 U
PCB-1232	11141-16-5	ug/m ³ PUF	0.073 U
PCB-1242	53469-21-9	ug/m ³ PUF	0.073 U
PCB-1248	12672-29-6	ug/m ³ PUF	0.073 U
PCB-1254	11097-69-1	ug/m ³ PUF	0.073 U
PCB-1260	11096-82-5	ug/m ³ PUF	0.073 U
PCB-1262	37324-23-5	ug/m ³ PUF	0.073 U
PCB-1268	11100-14-4	ug/m ³ PUF	0.073 U

U - The compound was not detected at the indicated concentration

J - Data indicates the presence of a compound that meets the identification criteria.

The concentration given is an approximate value.

**CONSTRUCTION
ASBESTOS AIR DATA**



EMSL Analytical, Inc.

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EMSL Order: 051700096

Customer ID: AMECE25

Customer PO: C012904381

Project ID:

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Project: Honeywell Highland Park

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Received Date: 01/09/2017 4:25 PM

Analysis Date: 01/10/2017

Collected Date: 01/09/2017

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume (liters)	Fibers	Fields	LOD (fib/cc)	Fibers/mm ²	Fibers/cc	Notes
AMS-01-010917 051700096-0001	Perimeter Air Monitoring Sample (PCM Method)	1/09/2017	1411.00	<5.5	100	0.002	<7.01	<0.002	
AMS-02-010917 051700096-0002	Perimeter Air Monitoring Sample (PCM Method)	1/09/2017	1361.00	<5.5	100	0.002	<7.01	<0.002	
AMS-03-010917 051700096-0003	Perimeter Air Monitoring Sample (PCM Method)	1/09/2017	1380.00	<5.5	100	0.002	<7.01	<0.002	
AMS-04-010917 051700096-0004	Perimeter Air Monitoring Sample (PCM Method)	1/09/2017	1389.00	<5.5	100	0.002	<7.01	<0.002	
AMS-05-010917 051700096-0005	Perimeter Air Monitoring Sample (PCM Method)	1/09/2017	493.00	<5.5	100	0.005	<7.01	<0.005	
AMS-B-010917 051700096-0006	Field Blank (PCM Method)	1/09/2017		<5.5					Field Blank

The results reported have been blank corrected as applicable.

Analyst(s):

David Moody PCM (6)

Chaiyut Sae Lao, Laboratory Manager
or Other Approved Signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.28, 21-50 fibers = 0.24, 51-100 fibers = 0.18. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NJ NELAC 12037

Initial report from: 01/10/2017 14:49:17



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Phone: (609) 689-2829
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Received Date: 01/09/2017 4:25 PM
Analysis Date: 01/10/2017
Collected Date: 01/09/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Type(s)	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5μ	≥5μ		(S/mm ²)	(S/cc)
AMS-05-010917-TEM 051700096-0007	Perimeter Air Monitoring Sample (TEM Method)	1411.00	0.0645	2	None Detected			0.0042	<16.00	<0.0042

Analyst(s)

Colin Slattery (1)



Chaoyut Sae Lao, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NVLAP Lab Code 101048-2, NJ NELAC 12037, Philadelphia 289

Initial report from: 01/10/2017 14:49:25



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EMSL Order: 051700117

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Received Date: 01/10/2017 5:30 PM

Analysis Date: 01/10/2017

Collected Date: 01/10/2017

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume (liters)	Fibers	Fields	LOD (fib/cc)	Fibers/mm ²	Fibers/cc	Notes
AMS-01-011017 051700117-0001	Perimeter Air Monitoring Sample (PCM Method)	1/10/2017	1373.00	<5.5	100	0.002	<7.01	<0.002	
AMS-02-021017 051700117-0002	Perimeter Air Monitoring Sample (PCM Method)	1/10/2017	1575.00	8	100	0.002	10.2	0.002	
AMS-04-021017 051700117-0004	Perimeter Air Monitoring Sample (PCM Method)	1/10/2017	1429.00	<5.5	100	0.002	<7.01	<0.002	
AMS-05-021017 051700117-0005	Perimeter Air Monitoring Sample (PCM Method)	1/10/2017	1277.00	<5.5	100	0.002	<7.01	<0.002	
AMS-B-011017 051700117-0006	Field Blank (PCM Method)	1/10/2017		<5.5	100		<7.01		Field Blank

The results reported have been blank corrected as applicable.

Analyst(s):

Nicholas Maslowski PCM (5)

Chaiyut Sae Lao, Laboratory Manager
or Other Approved Signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.28, 21-50 fibers = 0.24, 51-100 fibers = 0.18. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NJ NELAC 12037

Initial report from: 01/11/2017 13:34:44



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Received Date: 01/10/2017 5:30 PM
Analysis Date: 01/11/2017
Collected Date: 01/10/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Type(s)	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5μ	≥5μ		(S/mm ²)	(S/cc)
AMS-03-021017	Perimeter Air Monitoring Sample (TEM Method)	1606.00	0.0516	0	None Detected			0.0046	<19.00	<0.0046

051700117-0003

Analyst(s)

Colin Slattery (1)

Chaoyut Sae Lao, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NVLAP Lab Code 101048-2, NJ NELAC 12037, Philadelphia 289

Initial report from: 01/11/2017 13:34:49



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EMSL Order: 051700135
Customer ID: AMECE25
Customer PO: C012904381
Project ID:

Attention: Andrew Shust AMEC Foster Wheeler E & I 200 American Metro Blvd. Suite 113 Hamilton, NJ 08619	Phone: (609) 689-2829 Fax: (609) 689-2838 Received Date: 01/11/2017 5:45 PM Analysis Date: 01/11/2017 Collected Date: 01/11/2017
Project: Honeywell Highland Park	

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume (liters)	Fibers	Fields	LOD (fib/cc)	Fibers/mm ²	Fibers/cc	Notes
AMS-01-011117 051700135-0001	Perimeter Air Monitoring Sample (PCM Method)	1/11/2017	1714.00	11	100	0.002	14.0	0.003	
AMS-02-011117 051700135-0002	Perimeter Air Monitoring Sample (PCM Method)	1/11/2017	1690.00	<5.5	100	0.002	<7.01	<0.002	
AMS-03-011117 051700135-0003	Perimeter Air Monitoring Sample (PCM Method)	1/11/2017	1708.00	6	100	0.002	7.64	0.002	
AMS-04-011117 051700135-0004	Perimeter Air Monitoring Sample (PCM Method)	1/11/2017	1708.00	<5.5	100	0.002	<7.01	<0.002	
AMS-B-011117 051700135-0006	Field Blank (PCM Method)	1/11/2017		<5.5	100		<7.01		

No discernable field blanks submitted with this sample set.

Analyst(s):
Nicholas Maslowski PCM (5)

Chaiyut Sae Lao, Laboratory Manager
or Other Approved Signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.28, 21-50 fibers = 0.24, 51-100 fibers = 0.18. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NJ NELAC 12037

Initial report from: 01/12/2017 14:59:26



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Received Date: 01/11/2017 5:45 PM
Analysis Date: 01/12/2017
Collected Date: 01/11/2017


Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Type(s)	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5μ		≥5μ	(S/mm ²)
AMS-05-011117	Perimeter Air Monitoring Sample (TEM Method)	1708.00	0.0516	0	None Detected			0.0044	<19.00	<0.0044

051700135-0005

Analyst(s)

Susan Pollack (1)



Chaoyut Sae Lao, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NVLAP Lab Code 101048-2, NJ NELAC 12037, Philadelphia 289

Initial report from: 01/12/2017 14:59:35



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EMSL Order: 051700165
Customer ID: AMECE25
Customer PO: C012904381
Project ID:

Attention: Andrew Shust AMEC Foster Wheeler E & I 200 American Metro Blvd. Suite 113 Hamilton, NJ 08619	Phone: (609) 689-2829 Fax: (609) 689-2838 Received Date: 01/12/2017 5:40 PM Analysis Date: 01/13/2017 Collected Date: 01/12/2017
Project: Honeywell Highland Park	

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume (liters)	Fibers	Fields	LOD (fib/cc)	Fibers/mm ²	Fibers/cc	Notes
AMS-01-011217 051700165-0001	Perimeter Air Monitoring Sample (PCM Method)	1/12/2017	1615.00	<5.5	100	0.002	<7.01	<0.002	
AMS-02-011217 051700165-0002	Perimeter Air Monitoring Sample (PCM Method)	1/12/2017	1606.00	<5.5	100	0.002	<7.01	<0.002	
AMS-03-011217 051700165-0003	Perimeter Air Monitoring Sample (PCM Method)	1/12/2017	1603.00	<5.5	100	0.002	<7.01	<0.002	
AMS-05-011217 051700165-0005	Perimeter Air Monitoring Sample (PCM Method)	1/12/2017	1612.00	<5.5	100	0.002	<7.01	<0.002	
AMS-B-011217 051700165-0006	Field Blank (PCM Method)	1/12/2017		<5.5	100		<7.01		Field Blank

The results reported have been blank corrected as applicable.

Analyst(s):
David Moody PCM (5)

Chaiyut Sae Lao, Laboratory Manager
or Other Approved Signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.28, 21-50 fibers = 0.24, 51-100 fibers = 0.18. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NJ NELAC 12037

Initial report from: 01/13/2017 13:23:27



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Received Date: 01/12/2017 5:40 PM
Analysis Date: 01/13/2017
Collected Date: 01/12/2017


Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Type(s)	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5μ	≥5μ		(S/mm ²)	(S/cc)
AMS-04-011217	Perimeter Air Monitoring Sample (TEM Method)	1590.00	0.0516	1	None Detected			0.0047	<19.00	<0.0047

051700165-0004

Analyst(s)

Susan Pollack (1)



Chaoyut Sae Lao, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NVLAP Lab Code 101048-2, NJ NELAC 12037, Philadelphia 289

Initial report from: 01/13/2017 13:23:32



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EMSL Order: 051700180

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Received Date: 01/13/2017 4:07 PM

Analysis Date: 01/14/2017

Collected Date: 01/13/2017

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume (liters)	Fibers	Fields	LOD (fib/cc)	Fibers/mm ²	Fibers/cc	Notes
AMS-02-011317 051700180-0002	Perimeter Air Monitoring Sample (PCM Method)	1/13/2017	1187.30	5.5	100	0.002	7.01	0.002	
AMS-03-011317 051700180-0003	Perimeter Air Monitoring Sample (PCM Method)	1/13/2017	1407.20	<5.5	100	0.002	<7.01	<0.002	
AMS-04-011317 051700180-0004	Perimeter Air Monitoring Sample (PCM Method)	1/13/2017	1206.00	6	100	0.002	7.64	0.002	
AMS-05-011317 051700180-0005	Perimeter Air Monitoring Sample (PCM Method)	1/13/2017	1438.40	<5.5	100	0.002	<7.01	<0.002	
AMS-B-011317 051700180-0006	Field Blank (PCM Method)	1/13/2017		<5.5	100		<7.01		Field Blank

The results reported have been blank corrected as applicable.

Analyst(s):

Colin Slattery PCM (5)

Chaiyut Sae Lao, Laboratory Manager
or Other Approved Signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.28, 21-50 fibers = 0.24, 51-100 fibers = 0.18. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NJ NELAC 12037

Initial report from: 01/14/2017 14:11:05



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Project ID:

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Received Date: 01/13/2017 4:07 PM
Analysis Date: 01/14/2017
Collected Date: 01/13/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Type(s)	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5μ		≥5μ	(S/mm ²)
AMS-01-011317	Perimeter Air Monitoring Sample (TEM168.70 Method)		0.0774	3	None Detected			0.0043	<13.00	<0.0043
051700180-0001										

Analyst(s)

Colin Slattery (1)



Chaiyut Sae Lao, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NVLAP Lab Code 101048-2, NJ NELAC 12037, Philadelphia 289

Initial report from: 01/14/2017 14:11:15