Lab/Cor, Inc.
7619 6th Ave Nw
Seattle, WA 98117

Analysis Report Cover

Final Report

A Professional Service Corporation in the Northwest

Phone: (206) 781-0155
Fax: (206) 789-8424
http://www.labcor.net

Job Number: 061079 **SEA**

Report Number: 061079R04

Client: ABC Environmental Company

Report Date: 10/10/2007

Address: 123 Laboratory Ave.
Anytown, WA 98000

Project Name: Air Sample Analysis

Project Num: 10102007

PO Number:

Sub Project:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

THE CUMULATIVE AVERAGE FOR THIS SET OF SAMPLES IS: 43.1 S/MM2 (PASSES AHERA CLEARANCE CRITERIA)

Lab/Cor Sample #	Client Sample # and Description	Analysis	Analysis Notes	Date Received:
061079 - S1	TEM 1 - Clearance #1	AHERA		10/10/2007
061079 - S2	TEM 2 - Clearance #2	AHERA		10/10/2007
061079 - S3	TEM 3 - Clearance #3	AHERA		10/10/2007
061079 - S4	TEM 4 - Clearance #4	AHERA		10/10/2007
061079 - S5	TEM 5 - Clearance #5	AHERA		10/10/2007

AHERA - Method 40-CFR Part 763 App. A, Subpart E

Preparation and analysis of the above samples was conducted in accordance with the AHERA method for the identification of asbestos. Briefly, the samples were collapsed with acetone, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in acetone until cleared of filter debris.

Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at approximate screen magnification of between 15,000x-20,000x, with an accelerating voltage of 100 KV. Grid opening measurements were performed at a magnification of approximately 550X.

Disclaimer

The results reported relate only to the samples tested or analyzed. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Reviewed by:

John Harris, M.P.H.
Laboratory Director

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AHERA Summary Data

Job Number: 061079 **SEA**
Client: ABC Environmental Company
Project Name: Air Sample Analysis

Report Number: 061079R04
Date Received: 10/10/2007

Lab/Cor Sample No.: S1

Client Sample No.: TEM 1
Description: Clearance #1

Analyst(s)	Analysis Date
KM	10/10/2007

Volume (L) : 1200
Lab Filter Area (mm2) : 385
Grid Openings Analyzed : 5
Average Grid Opening Area : 0.013
Area Analyzed (mm2) : 0.065
Analytical Sens. (struc/cc) : 0.00494
Dectection Limit. (struc/cc) : 0.01476

Structure Type	Filter Density (s/mm2)	Concen-tration* (struc/cc)	95% Confidence Interval (struc/cc)	Structure Count[1] Prim/Total	
AHERA >=0.5 to 5.0µm, 5:1	30.8	0.01	0.001 - 0.036 - Poisson	2	
AHERA >=5.0µm, 5:1	15.4	0.005	0 - 0.028 - Poisson	1	
AHERA TOTAL >=0.5, 5:1	46.2	0.015	0.003 - 0.043 - Poisson	3	

[1] Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Client Sample No.: TEM 2
Description: Clearance #2

Analyst(s)	Analysis Date
KM	10/10/2007

Volume (L) : 1200
Lab Filter Area (mm2) : 385
Grid Openings Analyzed : 5
Average Grid Opening Area : 0.013
Area Analyzed (mm2) : 0.065
Analytical Sens. (struc/cc) : 0.00494
Dectection Limit. (struc/cc) : 0.01476

Structure Type	Filter Density (s/mm2)	Concen-tration* (struc/cc)	95% Confidence Interval (struc/cc)	Structure Count[1] Prim/Total	
AHERA >=0.5 to 5.0µm, 5:1	15.4	0.005	0 - 0.028 - Poisson	1	
AHERA >=5.0µm, 5:1	15.4	0.005	0 - 0.028 - Poisson	1	
AHERA TOTAL >=0.5, 5:1	30.8	0.01	0.001 - 0.036 - Poisson	2	

[1] Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

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AHERA Summary Data

Job Number: 061079 **SEA**
Client: ABC Environmental Company
Project Name: Air Sample Analysis

Report Number:
Date Received: 10/10/2007

Lab/Cor Sample No.: S3
Client Sample No.: TEM 3
Description: Clearance #3

Analyst(s)	Analysis Date
KM	10/10/2007

Volume (L) : 1200
Lab Filter Area (mm2) : 385
Grid Openings Analyzed : 5
Average Grid Opening Area : 0.013
Area Analyzed (mm2) : 0.065
Analytical Sens. (struc/cc) : 0.00494
Dectection Limit. (struc/cc) : 0.01476

Structure Type	Filter Density (s/mm2)	Concen-tration* (struc/cc)	95% Confidence Interval (struc/cc)	Structure Count[1] Prim/Total	
AHERA >=0.5 to 5.0µm, 5:1	0	< 0.005	0 - 0.018 - Poisson	0	
AHERA >=5.0µm, 5:1	0	< 0.005	0 - 0.018 - Poisson	0	
AHERA TOTAL >=0.5, 5:1	0	< 0.005	0 - 0.018 - Poisson	0	

[1] Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S4
Client Sample No.: TEM 4
Description: Clearance #4

Analyst(s)	Analysis Date
KM	10/10/2007

Volume (L) : 1200
Lab Filter Area (mm2) : 385
Grid Openings Analyzed : 5
Average Grid Opening Area : 0.013
Area Analyzed (mm2) : 0.065
Analytical Sens. (struc/cc) : 0.00494
Dectection Limit. (struc/cc) : 0.01476

Structure Type	Filter Density (s/mm2)	Concen-tration* (struc/cc)	95% Confidence Interval (struc/cc)	Structure Count[1] Prim/Total	
AHERA >=0.5 to 5.0µm, 5:1	138.5	0.044	0.02 - 0.084 - Poisson	9	
AHERA >=5.0µm, 5:1	0	< 0.005	0 - 0.018 - Poisson	0	
AHERA TOTAL >=0.5, 5:1	138.5	0.044	0.02 - 0.084 - Poisson	9	

[1] Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

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Job Number: 061079 **SEA**
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Client: ABC Environmental Company
Date Received: 10/10/2007
Project Name: Air Sample Analysis

Lab/Cor Sample No.: S5
Client Sample No.: TEM 5
Description: Clearance #5

Analyst(s)	Analysis Date
KM	10/10/2007

Volume (L) : 1200
Lab Filter Area (mm2) : 385
Grid Openings Analyzed : 5
Average Grid Opening Area : 0.013
Area Analyzed (mm2) : 0.065
Analytical Sens. (struc/cc) : 0.00494
Dectection Limit. (struc/cc) : 0.01476

Structure Type	Filter Density (s/mm2)	Concen-tration* (struc/cc)	95% Confidence Interval (struc/cc)	Structure Count[1] Prim/Total	
AHERA >=0.5 to 5.0µm, 5:1	0	< 0.005	0 - 0.018 - Poisson	0	
AHERA >=5.0µm, 5:1	0	< 0.005	0 - 0.018 - Poisson	0	
AHERA TOTAL >=0.5, 5:1	0	< 0.005	0 - 0.018 - Poisson	0	

[1] Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Reviewed by:

* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

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AHERA Raw Data

Job Number: 061079 **SEA** **Method 40-CFR Part 763 App. A, Subpart E** **Report Number:**
Client: ABC Environmental Company **Date Received:** 10/10/2007
Project Name: Air Sample Analysis

Lab/Cor Sample No: S1
Client Sample No: TEM 1
Description: Clearance #1

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G1	1	D6				NSD							
G1	2	A4	CD	1		Fiber	0.7	0.08	8.8	Chrysotile			AHERA, AHERA_0.5-5.0
G1	3	H8	CDQ	2		Fiber	7	0.1	70	Chrysotile	Mg, Si		AHERA, AHERA_5.0

ItemType	ItemNum	Confirmed	Comment
Brightfield	J001 BF		
Diffraction	J001 DF	KM 10/10/2007	
Spectra	J001 SP		

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G2	4	C6				NSD							
G2	5	E4	CDQ	3		Fiber	2	0.3	6.7	Chrysotile			AHERA, AHERA_0.5-5.0

ItemType	ItemNum	Confirmed	Comment
Brightfield	J002 BF		
Diffraction	J002 DF	KM 10/10/2007	
Spectra	J002 SP		

Count Categories
AHERA AHERA TOTAL >=0.5, 5:1 AHERA_0.5-5.0 AHERA >=0.5 to 5.0µm, 5:1 AHERA_5.0 AHERA >=5.0µm, 5:1

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Project Name: Air Sample Analysis

Lab/Cor Sample No: S2
Client Sample No: TEM 2
Description: Clearance #2

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G1	1	A2	CDQ	1		Fiber	2.6	0.12	21.7	Chrysotile	Mg, Si		AHERA, AHERA_0.5-5.0

ItemType	ItemNum	Confirmed	Comment
Brightfield	J004 BF		
Diffraction	J004 DF	KM 10/10/2007	
Spectra	J004 SP		

G1	2	D6				NSD							
G1	3	H8				NSD							
G2	4	H8				NSD							
G2	5	D4	CD	2		Matrix 5-0	6	2	3	Chrysotile			AHERA, AHERA_5.0

Count Categories
AHERA AHERA TOTAL >=0.5, 5:1 AHERA_0.5-5.0 AHERA >=0.5 to 5.0µm, 5:1 AHERA_5.0 AHERA >=5.0µm, 5:1

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Project Name: Air Sample Analysis

Lab/Cor Sample No: S3
Client Sample No: TEM 3
Description: Clearance #3

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G1	1	D6				NSD							
G1	2	H9				NSD							
G1	3	F4				NSD							
G2	4	D6				NSD							
G2	5	A4				NSD							

Count Categories
AHERA AHERA TOTAL >=0.5, 5:1 AHERA_0.5-5.0 AHERA >=0.5 to 5.0µm, 5:1 AHERA_5.0 AHERA >=5.0µm, 5:1

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Project Name: Air Sample Analysis

Lab/Cor Sample No: S4
Client Sample No: TEM 4
Description: Clearance #4

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G1	1	D6	CDQ	1		Fiber	1	0.1	10	Chrysotile	Mg, Si		AHERA, AHERA_0.5-5.0

ItemType	ItemNum	Confirmed	Comment
Brightfield	J005 BF		
Diffraction	J005 DF	KM 10/10/2007	
Spectra	J005 SP		

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G1	2	E4	CD	2		Fiber	2	0.1	20	Chrysotile			AHERA, AHERA_0.5-5.0
G1	2	E4	CD	3		Bundle	3	0.2	15	Chrysotile			AHERA, AHERA_0.5-5.0
G1	2	E4	CD	4		Matrix 1-0	2	0.8	2.5	Chrysotile			AHERA, AHERA_0.5-5.0
G1	3	G8	CD	5		Fiber	3	0.1	30	Chrysotile			AHERA, AHERA_0.5-5.0
G1	3	G8	CD	6		Matrix 1-0	2	1	2	Chrysotile			AHERA, AHERA_0.5-5.0
G2	4	D6	CD	7		Fiber	3	0.1	30	Chrysotile			AHERA, AHERA_0.5-5.0
G2	4	D6	CD	8		Fiber	2.5	0.08	31.2	Chrysotile			AHERA, AHERA_0.5-5.0
G2	5	E8	CD	9		Matrix 2-0	3	2	1.5	Chrysotile			AHERA, AHERA_0.5-5.0

Count Categories

AHERA AHERA TOTAL >=0.5, 5:1 AHERA_0.5-5.0 AHERA >=0.5 to 5.0µm, 5:1 AHERA_5.0 AHERA >=5.0µm, 5:1

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Project Name: Air Sample Analysis

Lab/Cor Sample No: S5
Client Sample No: TEM 5
Description: Clearance #5

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G1	1	D6				NSD							
G1	2	E8				NSD							
G1	3	G4				NSD							
G2	4	D9				NSD							
G2	5	A4				NSD							

Count Categories

AHERA	AHERA TOTAL >=0.5, 5:1	AHERA_0.5-5.0	AHERA >=0.5 to 5.0µm, 5:1	AHERA_5.0	AHERA >=5.0µm, 5:1

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Project Name: Air Sample Analysis

Reviewed by:

Count Categories

AHERA	AHERA TOTAL >=0.5, 5:1	AHERA_0.5-5.0	AHERA >=0.5 to 5.0µm, 5:1	AHERA_5.0	AHERA >=5.0µm, 5:1