5301 E. River Road Fridley, MN
Phone 763-277-5200
Fax 763-277-5201

EMR, Inc.

SDMS Document ID
2022677

Fax

To: Jim Christianson -EPA
Courtney Zamora -Volpe
Dave Smith - BNSF
Chuck Soule-KJ
Dan McCaskill-BNSF

From: Tanya Drake

Fax: Libby Group #25
Pages: 6 including cover
Phone:
Date: 9/17/04
Re: Draft Libby Lab Data
CC:

☐ **Urgent** ☑ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

**********These are preliminary draft lab results**********

Please contact Tanya Drake or Jessica Marsh if you experience any problems with this fax transmission.

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-5066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Tanya Drake**
EMR Inc (Environmental Mgmt Resources)
Suite 114
5301 E. River Road
Fridley, MN 55421

Fax: (763) 277-5201 Phone: (763) 277-5200
Project: BN-000012
Samples collected 9/13/04

Customer ID: EMRI53
Customer PO:
Received: 09/14/04 9:19 AM
EMSL Order: 270400756

EMSL Proj: BNSF Libby, MT Railyard
Analysis Date: 9/14/2004
Report Date: 9/14/2004

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5μ < 5	≥ 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	(S/cc)	Notes
BN-00200 270400756-0001	1989.00	0.0520		None Detected			0.0038	<19.00	<0.0038	
BN-00201 270400756-0002	2285.00	0.0520		None Detected			0.0032	<19.00	<0.0032	
BN-00202 270400756-0003	1384.00	0.0550		None Detected			0.0043	<15.00	<0.0043	
BN-00203 270400756-0004	2244.00	0.0520		None Detected			0.0033	<19.00	<0.0033	
BN-00204 270400756-0005	1976.00	0.0520		None Detected			0.0037	<19.00	<0.0037	
BN-00205 270400756-0006	2022.00	0.0520		None Detected			0.0037	<19.00	<0.0037	
BN-00206 270400756-0007	1999.00	0.0520		None Detected			0.0037	<19.00	<0.0037	

Analyst(s)
Ron Mahoney (7)

R. K. Mahoney
or other approved signatory

Disclaimers: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysts' accuracy and precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. This report relates only to those items tested.
Accredited for NVLAP PLM/TEM #200481-0

THIS IS THE LAST PAGE OF THE REPORT.

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-6060 Fax: Email: mobileasbestoslab@amsl.com

Attn: **Tanya Drake**
EMR Inc (Environmental Mgmt Resources)
Suite 114
5301 E. River Road
Fridley, MN 55421

Fax: (763) 277-5201 Phone: (763) 277-5200
Project: BN-000013
Sample collected 9/14/2004

Customer ID: EMRI53
Customer PO:
Received: 09/15/04 8:24 AM
EMSL Order: 270400764

EMSL Proj: BNSF Libby, MT Railyard
Analysis Date: 9/15/2004
Report Date: 9/15/2004

Polarized Light Microscopy (PLM) Performed on Soil Samples by NIOSH Method 9002, Issue 2

				Non-Asbestos				Asbestos
Sample	Location	Appearance	Treatment	%	Fibrous	%	Non-Fibrous	% Type
BN-89001 *270400764-0001*	B	Brown, Tan Fibrous Heterogeneous	Teased, Dissolved QC Type: Not QA Lab ID: EMSL27	<1%	Cellulose	100%	Non-fibrous (other)	None Detected

Analyst(s)

Paul Senne (1)

R. K. Mahoney
or other approved signatory

Disclaimers: PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. EMSL suggests that samples reported as <1% or none detected be tested with either SEM or TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.
Analysis performed by EMSL Libby (NVLAP #200481-0)

THIS IS THE LAST PAGE OF THE REPORT.

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobilesbestoslab@emsl.com

Attn: **Tanya Drake**
EMR Inc (Environmental Mgmt Resources)
Suite 114
5301 E. River Road
Fridley, MN 55421

Fax: (763) 277-5201 Phone: (763) 277-5200
Project: BN-000014
Samples collected 9/14/2004

Customer ID: EMRI53
Customer PO:
Received: 09/15/04 2:20 PM
EMSL Order: 270400773

EMSL Proj: BNSF Libby, MT Railyard
Analysis Date: 9/15/2004
Report Date: 9/15/2004

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5μ < 5	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	(S/cc)	Notes
BN-00213 270400773-0001	1907.00	0.0520		None Detected			0.0039	<19.00	<0.0039	
BN-00214 270400773-0002	828.00	0.1040		None Detected			0.0045	<9.60	<0.0045	
BN-00215 270400773-0003	2210.00	0.0520		None Detected			0.0034	<19.00	<0.0034	
BN-00216 270400773-0004	1938.00	0.0520		None Detected			0.0038	<19.00	<0.0038	
BN-00217 270400773-0005	913.00	0.0910		None Detected			0.0048	<11.00	<0.0048	
BN-00218 270400773-0006	1881.00	0.0520		None Detected			0.0039	<19.00	<0.0039	

Analyst(s)
Ron Mahoney (6)

R. K. Mahoney
or other approved signatory

Disclaimers: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysts' accuracy and precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. This report relates only to those items tested.
Accredited for NVLAP PLM/TEM #200481-0

THIS IS THE LAST PAGE OF THE REPORT.

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Tanya Drake**
EMR Inc (Environmental Mgmt Resources)
Suite 114
5301 E. River Road
Fridley, MN 55421

Fax: (763) 277-5201 Phone: (763) 277-5200
Project: BN-000015
Samples collected 9/15/2004

Customer ID: EMR153
Customer PO:
Received: 09/16/04 9:23 AM
EMSL Order: 270400778

EMSL Proj: BNSF Libby, MT Railyard
Analysis Date: 9/16/2004
Report Date: 9/16/2004

Polarized Light Microscopy (PLM) Performed on Soil Samples by NIOSH Method 9002, Issue 2

Sample	Location	Appearance	Treatment	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
BNR-01000 270400778-0001	8	Brown, Tan Fibrous Homogeneous	Teased, Crushed QC Type: NOT DA Lab ID: EMSL27	<1% Fibrous (other) <1% Cellulose	100% Non-fibrous (other)	None Detected

Analyst(s)

Paul Senne (1)

R. K. Mahoney
or other approved signatory

Disclaimer: PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Trace negative PLM results cannot be guaranteed. EMSL suggests that samples reported as <1% or none detected be tested with either SEM or TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.
Analysis performed by EMSL Libby (NVLAP #200481-0)

THIS IS THE LAST PAGE OF THE REPORT.

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9068 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Tanya Drake**
EMR Inc (Environmental Mgmt Resources)
Suite 114
5301 E. River Road
Fridley, MN 55421

Fax: (763) 277-5201 Phone: (763) 277-5200
Project: BN-000017
Samples collected 9/15/2004

Customer ID: EMRI53
Customer PO:
Received: 09/16/04 12:10 PM
EMSL Order: 270400782

EMSL Proj: BNSF Libby, MT Railyard
Analysis Date: 9/16/2004
Report Date: 9/16/2004

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5μ < 5	# Structures ≥ 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
BN-00219 270400782-0001	1659.00	0.0520		None Detected			0.0045	<19.00	<0.0045	
BN-00220 270400782-0002	2399.00	0.0520		None Detected			0.0031	<19.00	<0.0031	
BN-00221 270400782-0003	2162.00	0.0520		None Detected			0.0034	<19.00	<0.0034	
BN-00222 270400782-0004	1272.00	0.0650		None Detected			0.0047	<15.00	<0.0047	
BN-00223 270400782-0005	2054.00	0.0520		None Detected			0.0036	<19.00	<0.0036	
BN-00224 270400782-0006	1843.00	0.0520		None Detected			0.0040	<19.00	<0.0040	
BN-00225 270400782-0007	900.00	0.0910		None Detected			0.0047	<11.00	<0.0047	

Analyst(s)
Tina Swanson (7)

R. K. Mahoney
or other approved signatory

Disclaimer: The laboratory is not responsible for data reported in s/cc/volume/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analyst accuracy and precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. This report relates only to those items tested.
Accredited for NVLAP PLM/TEM #200481-0

THIS IS THE LAST PAGE OF THE REPORT.