

MICRO ANALYTICAL LABORATORIES, INC.

TEM YAMATE LEVEL II (MODIFIED)



1023
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

PROJECT:
JOB NO. R1147447
DVC, LIBRARY BUILDING
NORTH / GROUND CONTAINMENT

Micro Log In **203306**
Total Samples 5
Date Sampled 03/09/2015
Date Received 03/10/2015
Date Analyzed 03/10/2015

SAMPLE INFORMATION	ASBESTOS STRUCTURE COUNT	CALCULATED ASBESTOS STRUCTURE CONCENTRATION																																
CLIENT ID <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px 0;">R1147447-030915-C11</div> MICRO ID 203306-01 Time 115 LPM 10.50 Liters 1207.5 DESCRIPTION RESTROOMS - SOUTHEAST TEM CLEARANCE	ASBESTOS TYPE CHRYSOTILE <input style="width: 30px; text-align: center;" type="text" value="0"/> GRUNERITE (AMOSITE) <input style="width: 30px; text-align: center;" type="text" value="0"/> RIEBECKITE (CROCIDOLITE) <input style="width: 30px; text-align: center;" type="text" value="0"/> TREMOLITE <input style="width: 30px; text-align: center;" type="text" value="0"/> ACTINOLITE <input style="width: 30px; text-align: center;" type="text" value="0"/> ANTHOPHYLLITE <input style="width: 30px; text-align: center;" type="text" value="0"/> TOTAL ASBESTOS <input style="width: 30px; text-align: center;" type="text" value="0"/>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> Str. per mm² < 11 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> Str. per cc < 0.0036 </div> </div> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center; font-weight: normal;">Asbestos Structures Subdivided By Length</th> </tr> <tr> <th style="text-align: left;">Length</th> <th style="text-align: center;">No.</th> <th style="text-align: center;">S/mm²</th> <th style="text-align: center;">S/cc</th> </tr> </thead> <tbody> <tr> <td>0.5 - 5 μm</td> <td style="text-align: center;">0</td> <td style="text-align: center;">< 11.0</td> <td style="text-align: center;">< 0.0036</td> </tr> <tr> <td>≥ 5 μm</td> <td style="text-align: center;">0</td> <td style="text-align: center;">< 11.0</td> <td style="text-align: center;">< 0.0036</td> </tr> </tbody> </table>		Asbestos Structures Subdivided By Length				Length	No.	S/mm ²	S/cc	0.5 - 5 μm	0	< 11.0	< 0.0036	≥ 5 μm	0	< 11.0	< 0.0036															
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Technical Supervisor:

Frank Raviola, M.S.

3/10/2015

Date Reported

Analyst:

FPR

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3/10/2015

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Analyst:

WC

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Frank Raviola, M.S.

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Date Reported

Analyst:

WC

Analyses follow a modification of the Level II protocol from Yamate and others, 1984, "Methodology for the Measurement of Airborne Asbestos by Transmission Electron Microscopy". Direct preparations follow the AHERA method (1987), 40 CFR Part 763, Appendix A to Subpart E. Asbestiform structures with aspect ratio of 3:1 or greater, are counted. Analysis may be stopped after 50 or more asbestos structures are counted. Concentrations and limits expressed in "Structures per mm²" are applicable only to samples with volumes of 1199 or more liters. Variability due to different airborne fiber distributions, whether on different portions of the same filter or from different filters from the same sampled area, may be significant. Analytical sensitivity is the airborne concentration represented by each asbestos structure; it is not the same as the detection limit. The detection limit is approximately 3.7 times the analytical sensitivity. Non-asbestos counts are approximate; specific characterization of non-asbestos particles is not applicable to this analysis. Unless otherwise indicated on this report, all required Quality Control samples have been determined to be in control prior to releasing these analytical results. Duplicate QC samples have lower analytical sensitivities. Unless otherwise stated in this report, all samples were received in acceptable condition for analysis. Note: due to software limitations, the number of reported significant figures does not necessarily reflect the uncertainty of the analysis. This report must not be reproduced except in full without the approval of Micro Analytical Laboratories, Inc., and pertains only to the samples analyzed. Air volume information is reported as given by the client. N/G = not given. N/A = not applicable.

MICRO ANALYTICAL LABORATORIES, INC.

TEM YAMATE LEVEL II (MODIFIED)



1023
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

PROJECT:
JOB NO. R1147447
DVC, LIBRARY BUILDING
NORTH / GROUND CONTAINMENT

Micro Log In **203306**
Total Samples 5
Date Sampled 03/09/2015
Date Received 03/10/2015
Date Analyzed 03/10/2015

SAMPLE INFORMATION	ASBESTOS STRUCTURE COUNT	CALCULATED ASBESTOS STRUCTURE CONCENTRATION																								
CLIENT ID <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px 0;">R1147447-030915-C15</div> MICRO ID 203306-05 Time 115 LPM 10.50 Liters 1207.5 DESCRIPTION NORTHEAST ROOMS TEM CLEARANCE	ASBESTOS TYPE CHRYSOTILE <input style="width: 30px; text-align: center;" type="text" value="0"/> GRUNERITE (AMOSITE) <input style="width: 30px; text-align: center;" type="text" value="0"/> RIEBECKITE (CROCIDOLITE) <input style="width: 30px; text-align: center;" type="text" value="0"/> TREMOLITE <input style="width: 30px; text-align: center;" type="text" value="0"/> ACTINOLITE <input style="width: 30px; text-align: center;" type="text" value="0"/> ANTHOPHYLLITE <input style="width: 30px; text-align: center;" type="text" value="0"/> TOTAL ASBESTOS <input style="width: 30px; text-align: center;" type="text" value="0"/>	Str. per mm² <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">< 11</div>	Str. per cc <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">< 0.0036</div>																							
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Technical Supervisor:

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203206

TEM AIR SAMPLE DATA SHEET

AHERA _____ Yamate II Method NIOSH 7402 _____

PAGE 1 OF 1

SAMPLE ID CODE

Job Code - mmddyy - Sample Type - Sample # (11422-022405-P-1)
Job Code: Numeric Code from RGA Project #
mmddyy: month day year (022405)
Sample Type: A-Area, P-Perimeter, B-Baseline, C-Clearance, BL-Blank
Sample #: 1, 2, 3, ...

Project Name/Address/Building No.: DVC, library bldg, north/grand containment

RGA Project #: R1147447 Sampled By: N. Anscoff Sampling Date: 3/9/15

Sample(s) Sent To: EMSL Other: MAC TAT: Rush 24Hrs 3-5 Days

*****FAX OR E-MAIL REPORT TO:** SEE ABOVE PROJECT MANAGER (PM)***

*****ADDITIONAL REPORT RECIPIENT(S):** _____ ***

SAMPLE ID: <u>R1147447-030915-C11</u>	TIME ON: <u>1440</u>	TIME OFF: <u>1635</u>
SAMPLE LOCATION: <u>Restrooms - SE</u>	FLOW RATES: <u>10.5</u> (LPM)	
WORK ACTIVITY: <u>clearance</u>	TOTAL MINUTES: <u>115</u>	VOLUME: <u>1,207.5</u> (L)

SAMPLE ID: <u>R1147447-030915-C12</u>	TIME ON: <u>1440</u>	TIME OFF: <u>1635</u>
SAMPLE LOCATION: <u>Sound studio - SW</u>	FLOW RATES: <u>10.5</u> (LPM)	
WORK ACTIVITY: <u>clearance</u>	TOTAL MINUTES: <u>115</u>	VOLUME: <u>1,207.5</u> (L)

SAMPLE ID: <u>R1147447-030915-C13</u>	TIME ON: <u>1440</u>	TIME OFF: <u>1635</u>
SAMPLE LOCATION: <u>Large area @ north/center</u>	FLOW RATES: <u>10.5</u> (LPM)	
WORK ACTIVITY: <u>clearance</u>	TOTAL MINUTES: <u>115</u>	VOLUME: <u>1,207.5</u> (L)

SAMPLE ID: <u>R1147447-030915-C14</u>	TIME ON: <u>1440</u>	TIME OFF: <u>1635</u>
SAMPLE LOCATION: <u>AT dixon area</u>	FLOW RATES: <u>10.5</u> (LPM)	
WORK ACTIVITY: <u>clearance</u>	TOTAL MINUTES: <u>115</u>	VOLUME: <u>1,207.5</u> (L)

SAMPLE ID: <u>R1147447-030915-C15</u>	TIME ON: <u>1440</u>	TIME OFF: <u>1635</u>
SAMPLE LOCATION: <u>North east rooms</u>	FLOW RATES: <u>10.5</u> (LPM)	
WORK ACTIVITY: _____	TOTAL MINUTES: <u>115</u>	VOLUME: <u>1,207.5</u> (L)

Relinquished By: N. Anscoff Signature: [Signature] Date/Time: 3/9/15
 Received By: Kuo Saetel Signature: [Signature] Date/Time: 3/10/15
 Relinquished By: _____ Signature: _____ Date/Time: _____
 Received By: _____ Signature: _____ Date/Time: _____