



ProScience Analytical Services, Inc

Kathleen Williamson
TRC Environmental Corp. (CT)
21 Griffin Road North
Windsor, CT 06095

September 09, 2016

Dear Kathleen Williamson,

Results of air samples you described and submitted to ProScience Analytical Services, Inc. are shown on the enclosed data sheets. The analytical results in this report apply to the items tested only.

The listed samples were prepared and analyzed in compliance with the "NIOSH 7402" method using transmission electron microscopy (TEM) with selected area electron diffraction (SAED) and semi-quantitative microanalysis.

This method for quantifying only optically visible asbestos fibers on a filter surface is designed to be used in conjunction with the Phase Contrast Microscopy method "NIOSH 7400". It is not designed for ambient air monitoring of actual background levels of asbestos.

The quality control data related to the samples analyzed are available for review upon the written request of the client. ProScience Analytical Services, Inc. and its personnel assume no responsibility for potential sample contamination, misuse, misinformation, or misrepresentation by the client. All calculations are based on collection volumes supplied by the client. Samples are retained for a period of 2 months.

The enclosed results may not be used under any circumstances as product endorsement by any US government agency including NIST/NVLAP.

This report may not be reproduced, except in its entirety, without the permission of ProScience Analytical Services, Inc., laboratory Director.

Please contact me if you have any questions regarding this report or related information.

Sincerely,

Mark Derosier, Senior Analyst
Aimee Cormier, Laboratory Manager

Enclosure:

BATCH NUMBER : NS 16087 CLIENT PROJECT ID: 264002.0000.0000

Client #: 297

NVLAP Lab Code 200090-0; CT ID# PH-0209; MA ID# AA000156; ME ID# LB-055; ME ID# LA-056;
AIHA ID# 102754; VT ID# AL016876; PH ID# 218(TEM,PLM); ELAP ID# 11632; RI ID# 186.

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801
Ph. (781) 935-3212 Fx. (781) 932-4857

NIOSH 7402 Report

Batch # NS16087
Client TRC Environmental Corp.
Project # 264002.0000.0000
P.O.# C264002
Reference Derby H.S.

Date Analyzed: 9/9/2016

Analyst: Aimee Cormier



Lab ID	Client ID	Description	Vol.(L)	Grid Area	Analytical Sens.(f/cc)	# Non Asbestos Fibers	#Asbestos Fibers	Asbestos Fibers/cc	Asbestos Type(s)	Asbestos % of Total
A 122017	10	Room G11	1280	0.01023	0.0007	23.0	ND	ND		0

Only fibers greater than 5 microns in length and 0.25 in width are counted per NIOSH 7402.
The above results are not blank corrected.
Reported using TEM data only.

ND = No Fibers detected

NS16087

Date: 9/7/16

ProScience Analytical Services, Inc.

TEM Air Sample Chain Of Custody Record

Niosh 7402 ✓

Client: Derby Public Schools - TRC

AHERA, Clearance Set

Client Job # 264002.0000.0000

Analysis Type: AHERA, Method, Bkgnd., H.A.

Client Job Ref./Loc Derby HS

(Please Circle) Level II (Yamate)

Client P.O. # _____

PCM Equivalent

Relinquished By X [Signature] Recieved By

X [Signature]
9/8/16 10:55

Sampler's Name D. Webster

IMPORTANT!! Turn Around Time Requested, (Circle) <6 Hour <12 Hour <24 Hour <48 Hour <3 Day <5 Day Other _____

*per our phone call \$85/sample
Thanks.*

Client I.D.#	Lab I.D.#	Type-In,Out Blk,Pril,Area	Location	Volume,L	For Lab Use Only	
					Acceptable on receipt	Comments
10	48958	Area	Rm G 11	1280		

For Lab Use Only						
Price/Sple	# Sple	Total	Client #	Batch #	Results Reported	Comments

NS16087



21 Griffin Road North
Windsor, CT 06095
860-298-9692

Edition: April 2014
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Client: Derby Public Schools
Site: Derby High School
Address: 8 Anthony Ave
Derby, CT

Project No.: 264002
Sampler Print: David Webster
Analyst Print: K Williamson
QC Analyst Print: K Williamson
Lab Supervisor Print: C Lemire

Date: 8/29/16 Page 2 of 8
Signature: David Webster Date: 8/29/16
Signature: [Signature] Date: [Date]
Signature: [Signature] Date: [Date]
Signature: Cathie Date: 9/6/16

Contact/Name: Dave Ardore Phone: 203-721-5298 Rotometer No.: H-10 Date of Calibration: 7/7/16 Lab No. 48958

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.392	0.525
20.5 to 50/100	0.277	0.652
>50/100	0.238	0.581

Microscope No. _____ Received in Lab for Analysis: QC Only:
Sample Type: PCM TEM Other: _____ Analysis Method: NIOSH 7400 AHERA Other: _____
Issue 2 8/15/94 A rules
Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	8	9	10	11	12	13	14
Sampling Location/Comments	Rm 604	Rm 610	Rm 611	Rm 603	Rm 101	Rm 602	Rm 601
Type of Sample	4	4	4	4	4	4	4
Pump Number							
Start Time/Stop Time	1553 1758	1603 1807	1607 1815	1615 1825	1718 1920	1725 1930	1738 1938
Total Time (min)	125	124	128	130	122	125	120
Flow Rate	10 10	10 10	10 10	10 10	10 10	10 10	10 10
Total Volume (l)	1250	1240	1280	1300	1220	1250	1200
FB — BFB FL — BFL	19/100	23/100	28/100	10/100	9/100	10/100	1/100
Filter Fiber Conc. (fibers/mm ²)	24.2	29.3	35.7	12.7	10, 11.5	12.7	1.3
Airborne Fiber Conc. (fibers/cc)	0.003 ✓	0.009 ✓	0.011 ✓	0.004 ✓	0.004 ✓	0.004 ✓	nd < 0.002 ✓

STANDARDS
 <0.01 f/cc — EPA Re-Occupancy Clearance Criteria
 0.10 f/cc — OSHA Permissible Exposure Limit (8 hr. TWA)
 1.0 f/cc — OSHA 30 min Excursion Level
 ND< — Non Detected, less than the limit of detection
 Limit of Detection — 5.5 fibers/100 fields

Relinquished by: David Webster Date 9/1/16 Time 1550
Received By: [Signature] Date 9/1/16 Time 1600
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LB-0071 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL014538 WV # LT000411
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122
Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Condition of Samples:
Acceptable: Y N _____
Comments: _____

QC Recount			
Sample No.	FB/FL	Analyst/Date	Field/Lab

NIOSH 7402
TEM Sample Worksheet

Client PO# C264002
 Client Project# 264002.0000.0000
 Client Project ref. Derby H.S.
 Batch No. NS16087
 Lab Sample ID A 122017
 Client Sample ID 10
 Client TRC Environmental Corp.
 Client Number
 Sample Description Room G11
 Sample Type Area
 Grid Box Location 2149 15D
 Date Logged In 9/8/2016
 Volume (L) 1280

Grid Opening Size 0.010229 mm²
 Eff. Filter Area (mm) 385 mm²
 No. of Grid Openings 40
 Analytical Sensitivity 0.000735 f/cc
 Pore Size/Filter Type .45mce
 Instrument Philips CM12 420
 Operating Voltage 80 keV
 Magnification ~2000
 Date Analyzed 9/9/16
 Analyst [Signature]
 Quality Of Prep

Location	G.S.O.	Asbestos Count	Non Asbestos Count	Str. Type	Species	SAED	EDAX	>5 um long	>0.25 um wide	
→ 15D	E1	NSD								
	E6		1/2	F	NA			✓	✓	
	F5		1	F	NA			✓	✓	
	L8		1	F	NA			✓	✓	
	K7		1	F	NA			✓	✓	
	J4									
	G5									
	Q2		1	F	NA			✓	✓	
	R3									
	S8		1	F	NA			✓	✓	
	S6		1	F	NA			✓	✓	
	R5		1	F	NA			✓	✓	
	V1		1	F	NA			✓	✓	
	→ 15E	C8		1	F	NA			✓	✓
		D1		1	F	NA			✓	✓
E3			1/2	F	NA			✓	✓	
F8			1	F	NA			✓	✓	
K8			1	F	NA			✓	✓	
I3			1	F	NA			✓	✓	
J5			1	F	NA			✓	✓	
V8			1	F	NA			✓	✓	
→ 16A		N3								
		L7								
	K7		1	F	NA			✓	✓	
	J8		1	F	NA			✓	✓	
	I6		1	F	NA			✓	✓	
	J3		1	F	NA			✓	✓	
	B7									
Q1										
Q3										
R6										

Fiber Count 12 Total Fiber Count 0

NSD = No Structures Detected F = Fiber

