




**PRE-RENOVATION  
INVESTIGATIVE SURVEY FOR  
ASBESTOS-CONTAINING MATERIALS  
30 TRINITY STREET  
HARTFORD, CONNECTICUT**

**Project No. 2B-06-41  
DPW No. 19035**

*Prepared for*  
State of Connecticut  
Department of Public Works  
Hartford, Connecticut

*Prepared by*  
TRC Environmental Corporation  
Windsor, Connecticut



Donald LePage  
Project Manager

TRC Project No. 43500-5910-00001  
February 20, 2007

**TRC Environmental Corporation**  
21 Griffin Road North  
Windsor, Connecticut 06095  
Telephone (860) 298-9692  
Facsimile (860) 298-6399

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## EXECUTIVE SUMMARY

On January 26 and January 30, 2007 TRC Environmental Corporation (TRC) of Windsor, Connecticut conducted an inspection for suspect asbestos-containing materials (ACM) at 30 Trinity Street in Hartford, Connecticut. The inspection was initiated prior to planned renovation activities in accordance with USEPA Asbestos National Emissions Standard for Hazardous Air Pollutants (NESHAPS) requirements.

The scope of the inspection was limited to the 1<sup>st</sup> floor break room and South Corridor areas at the subject site. A Connecticut licensed asbestos inspector from TRC conducted the inspection in accordance with USEPA AHERA protocols and ASTM Standard E2356-04. Bulk samples of suspect materials were collected and analyzed via polarized light microscopy (PLM) and transmission electron microscopy (TEM) methods at CTDPH/NVLAP accredited laboratories. ACM was identified as 9"x9" grey floor tile and associated mastic in the subject area. ACM to be impacted by renovation activities must be removed prior to disturbance in accordance with OSHA, USEPA, CTDPH, and CTDEP standards for asbestos abatement/disposal. Detailed results of the asbestos survey can be found in Tables 1-3 and Appendices A through E.

## PROJECT OUTLINE

Project Address: 30 Trinity Street  
Hartford, CT

DAS Contract No. 03PSX0346E

DPW Project Manager James Sinclair

DPW Project No.: 2B-06-41

DPW Building No: 19035

TRC Project No.: 43500-5910-00001

TRC Project Manager: Don LePage

Asbestos Inspector: Donald Lepage (LIC #000273)  
Stephen Arienti (LIC #000583)

Date of Inspection: 1/26/07, 1/30/07

Asbestos Identified: Yes

### Additional Notes:

The site investigation was limited to the collection and analysis of suspect asbestos-containing materials from within the 1<sup>st</sup> floor South corridor and 1<sup>st</sup> floor break room of the building.

# TABLES



21 Griffin Road North  
Windsor, CT 06095

860.298.9692 PHONE  
860.298.6399 FAX

www.TRCSolutions.com

February 20, 2007

Mr. David Arute  
Department of Public Works  
Room 460  
165 Capitol Avenue  
Hartford, CT 06106

Re: Survey Report for 30 Trinity Street, Hartford, Connecticut  
Project No.: 2B-06-41  
DPW Building No.: 19035  
TRC Project No.: 43500-5910-00001

Dear Mr. Arute:

Enclosed are two copies of the report for the asbestos survey conducted in January, 2007 at 30 Trinity Street.

Please contact me at (860) 298-6222 if have any questions concerning the report.  
Very truly yours,

TRC ENVIRONMENTAL CORPORATION

A handwritten signature in cursive script that reads "Donald LePage".

Donald LePage  
Project Manager

cc: James Sinclair, DPW

**TABLE 1  
BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS  
30 TRINITY STREET  
HARTFORD, CONNECTICUT**

Sample No.	Sample Location	Homogeneous Material	% and Type Asbestos
01	1 <sup>st</sup> floor break room	12"x12" white floor tile (no mastic)	ND<1% <sup>1</sup>
01	1 <sup>st</sup> floor South Corridor	9"x9" grey floor tile (FT2)	10% chrysotile
		Mastic associated with FT2	21.82% chrysotile <sup>1</sup>
02	1 <sup>st</sup> floor South Corridor	White cove base (CB1)	ND<1% <sup>1</sup>
		Glue associated with CB1	ND<1% <sup>1</sup>
03	1 <sup>st</sup> floor South Corridor	Grey levelastic (LEV1)	Trace chrysotile <sup>1</sup>
		Mastic associated with LEV1	ND<1% <sup>1</sup>

NA/PVA Not analyzed/positive via inseparable association with a confirmed positive ACM

NA/PS Not analyzed/positive stop, homogeneous to sample proven to contain asbestos

ND<1% Non-detected, less than 1%

NAD No asbestos detected

+ Although found to be negative by analysis, material is homogeneous to a determined ACM and therefore must be considered positive

<sup>1</sup> NOB material; result confirmed by TEM analyses

\* Quantified by PLM Point Counting techniques

**TABLE 2  
 IDENTIFIED ASBESTOS CONTAINING MATERIALS (>1%)  
 30 TRINITY STREET  
 HARTFORD, CONNECTICUT**

<b>Material</b>	<b>Sampled- Assumed (mo/yr)</b>	<b>General Location</b>	<b>NESHAP Category</b>	<b>AHERA Category</b>	<b>Estimated Quantity</b>
9"x9" grey floor tile & associated mastic (FT2)	Sampled 1/07	1 <sup>st</sup> floor South Corridor	Category I Non-friable	Miscellaneous	~900 SF

AHERA Categories = thermal system insulation (TSI), surfacing material or miscellaneous  
 NESHAP Categories = friable, category I non-friable or category II non-friable  
 Friable = crumbled, pulverized or reduced to powder by hand pressure when dry  
 Category I Non-friable = packings, gaskets, resilient floor covering and asphalt roofing  
 Category II Non-friable = all non-friable that is not Category I



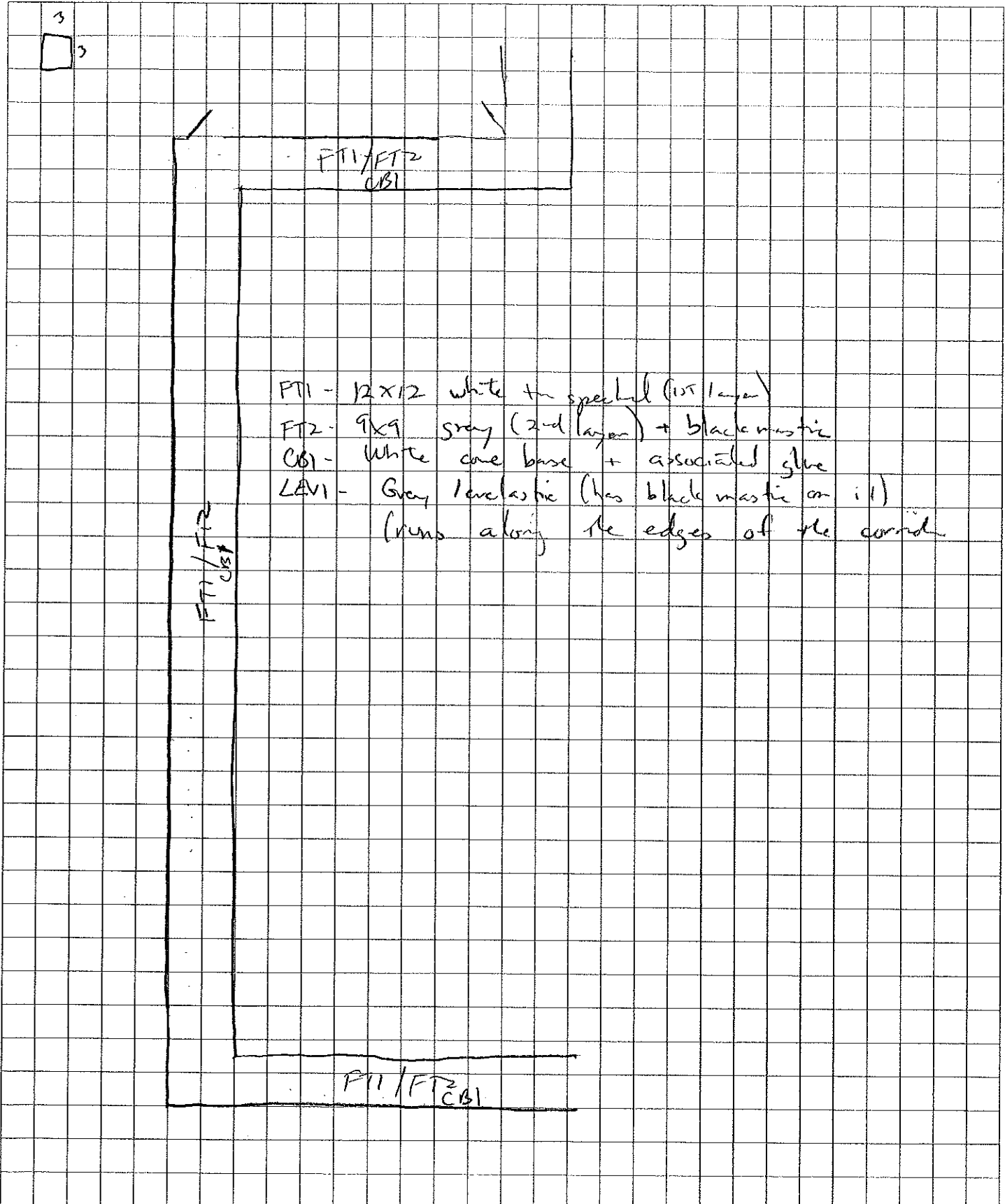
**TABLE 3  
CONFIRMED NON-ASBESTOS CONTAINING MATERIALS  
30 TRINITY STREET  
HARTFORD, CONNECTICUT**

<b>Material</b>	<b>General Location</b>
12"x12" white floor tile (no mastic)	1 <sup>st</sup> floor break room
White cove base & associated glue (CB1)	1 <sup>st</sup> floor South Corridor
Grey levelastic & associated mastic (LEV1)	1 <sup>st</sup> floor South Corridor

**APPENDIX A**  
**SITE SKETCH**



SUBJECT DPW - 30 Trinity St Hartford, CT



**APPENDIX B**

**LABORATORY AND INSPECTOR ACCREDITATIONS**

**STATE OF CONNECTICUT**  
**DEPARTMENT OF PUBLIC HEALTH**

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT  
THE INDIVIDUAL NAMED BELOW IS LICENSED  
BY THIS DEPARTMENT AS A

**ASBESTOS CONSULTANT - INSPECTOR**

**DONALD LEPAGE**

LICENSE NO.  
**000273**  
CURRENT THROUGH  
**08/31/07**  
VALIDATION NO.  
**03-386874**

*Donald LePage*  
SIGNATURE

*J. Robert Bellini, M.D., M.P.H.*  
COMMISSIONER

# CERTIFICATE OF ACHIEVEMENT

*This certifies that*

**Donald LePage**

*has successfully completed the*  
**Asbestos Site Inspector Refresher Training**  
**Asbestos Accreditation Under TSCA Title II**  
**40 CFR Part 763**

*conducted by*

**ATC Associates Inc.**  
**73 William Franks Drive**  
**West Springfield, MA 01089**  
**(413) 781-0070**

Official record of successful  
completion of this Course is the  
DOH2832 Certificate issued  
on March 23, 2006

*Edward Volberg*

Principal Instructor

March 23, 2006

Date of Course

March 23, 2007

Expiration Date

*Gregory J. Mosack*

Regional Manager  
SIAR-2146

Certificate Number

March 23, 2006

Examination Date

0003494 FP \*\*PRSRT T9 0 0604 06450  
STEPHEN R. ARIENTI  
63 PINEHURST DRIVE  
MERIDEN CT 06450

Dear Licensed/Certified Professional,  
Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call.

Department of Public Health (860) 509-7603  
P.O. Box 340308  
M.S. #12MQA <http://www.dph.state.ct.us>  
Hartford, CT 06134-0308

Sincerely,

*J. Robert Galvin M.D., M.P.H.*

J. ROBERT GALVIN, MD, MPH, COMMISSIONER  
DEPARTMENT OF PUBLIC HEALTH

**INSTRUCTIONS:**

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.

4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

**EMPLOYER'S COPY**

STATE OF CONNECTICUT  
DEPARTMENT OF PUBLIC HEALTH

NAME: STEPHEN R. ARIENTI  
VALIDATION NO: 03-321623  
LICENSE NO: 000583  
CURRENT THROUGH: 04/30/07  
PROFESSION: ASBESTOS CONSULTANT-INSPECTOR

*J. Robert Galvin M.D., M.P.H.*  
COMMISSIONER

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS LICENSED

BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-INSPECTOR

STEPHEN R. ARIENTI

LICENSE NO: 000583  
CURRENT THROUGH: 04/30/07  
VALIDATION NO: 03-321623

*J. Robert Galvin M.D., M.P.H.*  
SIGNATURE

*J. Robert Galvin M.D., M.P.H.*  
COMMISSIONER

# CERTIFICATE OF ACHIEVEMENT

*This certifies that*

**Stephen Arieneti**

*has successfully completed the*  
**Asbestos Site Inspector Refresher Training  
Asbestos Accreditation Under TSCA Title II  
40 CFR Part 763**

*conducted by*

**ATC Associates Inc.  
73 William Franks Drive  
West Springfield, MA 01089  
(413) 781-0070**

*Charles Kolby*

Principal Instructor

January 4, 2007

Date of Course

January 4, 2008

Expiration Date

*Gregory J. Morach*

Regional Manager

SIAR-2344

Certificate Number

January 4, 2007

Examination Date



# State of Connecticut, Department of Public Health Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

## TRC ENVIRONMENTAL CORPORATION

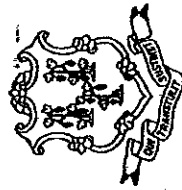
LOCATED AT 21 Griffin Road North IN Windsor, CT 06095  
AND REGISTERED IN THE NAME OF Richard A. Love

THIS CERTIFICATE IS ISSUED IN THE NAME OF Henry Laliberte WHO HAS BEEN DESIGNATED  
BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF  
APPROVAL AS FOLLOWS:

ASBESTOS  
AIR-FIBER COUNTING - PCM  
BULK IDENTIFICATION - PLM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

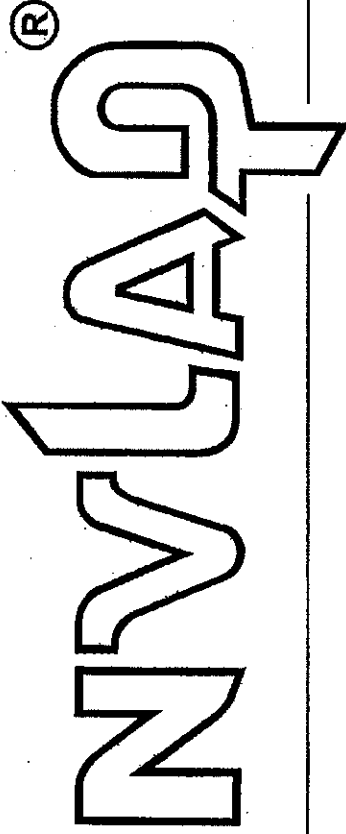
THIS CERTIFICATE EXPIRES December 31, 2007 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH  
DATED AT HARTFORD, CONNECTICUT, THIS 22<sup>ND</sup> DAY OF DECEMBER 2005



Registration  
No.  
PH- 0426

*Elmer J. Blaschinski*  
CHIEF, REGULATORY SERVICES BRANCH

United States Department of Commerce  
National Institute of Standards and Technology



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**Certificate of Accreditation to ISO/IEC 17025:1999**

---

NVLAP LAB CODE: 101424-0

**TRC Environmental Corporation**  
Windsor, CT

is recognized by the National Voluntary Laboratory Accreditation Program for conformance with criteria set forth in  
NIST Handbook 150:2001 and all requirements of ISO/IEC 17025:1999.  
Accreditation is granted for specific services, listed on the Scope of Accreditation, for:

**BULK ASBESTOS FIBER ANALYSIS**

2006-07-01 through 2007-06-30

Effective dates



*Jolly A. Bruce*  
For the National Institute of Standards and Technology



**National Voluntary  
Laboratory Accreditation Program**



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:1999**

**TRC Environmental Corporation**  
21 Griffin Road North  
Windsor, CT 06095  
Mr. Henry Laliberte  
Phone: 860-298-9692 Fax: 860-298-6399  
E-Mail: [hlaliberte@TRCSolutions.com](mailto:hlaliberte@TRCSolutions.com)  
URL: <http://www.trcsolutions.com>

**BULK ASBESTOS FIBER ANALYSIS (PLM)**

**NVLAP LAB CODE 101424-0**

*NVLAP Code    Designation / Description*

18/A01            EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2006-07-01 through 2007-06-30

*Effective dates*

*Sally S. Bruce*  
For the National Institute of Standards and Technology

# State of Connecticut, Department of Public Health Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

## PROSCIENCE ANALYTICAL SERVICES, INC.

LOCATED AT 22 Cummings Park IN Woburn, MA 01801

AND REGISTERED IN THE NAME OF Adrian Stanca

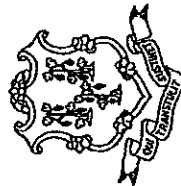
THIS CERTIFICATE IS ISSUED IN THE NAME OF Adrian Stanca - Director WHO HAS BEEN DESIGNATED  
BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

NON-POTABLE WATER/ WASTEWATER, SOLID WASTE/SOIL ENVIRONMENTAL HEALTH & HOUSING ASBESTOS  
INORGANICS LEAD IN PAINT AIR

LEAD (PAINT) IN SOIL BULK MATERIALS  
LEAD IN DUST WIPES WATER

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES December 31, 2008 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH  
DATED AT HARTFORD, CONNECTICUT, THIS 20th DAY OF December 2006



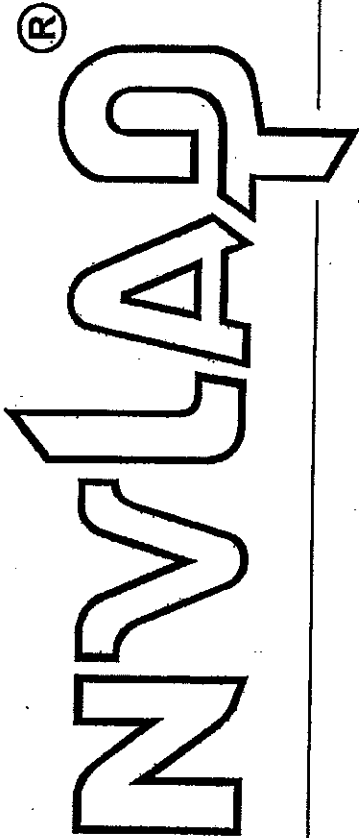
Registration No.

PH-0209

A handwritten signature in black ink, appearing to read "Suzanne Blancaflor".

SUZANNE BLANCAFLOR, MS  
CHIEF, ENVIRONMENTAL HEALTH SECTION

United States Department of Commerce  
National Institute of Standards and Technology



---

## Certificate of Accreditation to ISO/IEC 17025:1999

---

NVLAP LAB CODE: 200090-0

**ProScience Analytical Services, Inc.**  
Woburn, MA

is recognized by the National Voluntary Laboratory Accreditation Program for conformance with criteria set forth in  
NIST Handbook 150:2001 and all requirements of ISO/IEC 17025:1999.  
Accreditation is granted for specific services, listed on the Scope of Accreditation, for:

**BULK ASBESTOS FIBER ANALYSIS**

2007-01-01 through 2007-12-31

Effective dates



*Dolly J. Bruce*  
For the National Institute of Standards and Technology



**National Voluntary  
Laboratory Accreditation Program**



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:1999**

**ProScience Analytical Services, Inc.**  
22 Cummings Park  
Woburn, MA 01801-2122  
Mr. Adrian Stanca  
Phone: 781-935-3212 Fax: 781-932-4857  
E-Mail: PASI96@aol.com  
URL: <http://www.proscience.net>

**BULK ASBESTOS FIBER ANALYSIS (PLM)**

**NVLAP LAB CODE 200090-0**

***NVLAP Code    Designation / Description***

**18/A01            EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples**

**2007-01-01 through 2007-12-31**

***Effective dates***

**For the National Institute of Standards and Technology**

## **APPENDIX C**

# **ASBESTOS BULK SAMPLE CHAIN OF CUSTODY FORMS**





# Proscience Analytical Services, Inc.

NT 8738

22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857  
TEM Bulk Chain of Custody Record

Date: 1/30/07

Client: TRC Environmental Corporation Analysis Type: Chatfield N.O.B N.Y.S Qualitative

Client Job#: 43500-~~5000~~ 00001

Client Job Ref./Loc.: DPW- 30 Trinity Street, Hartford, CT

Refiniquished by: K. Williamson

Received by:

Report to: D. LePage

Samplers Name: D. LePage

*Magylen Toussier* 2-1-07 10:05 AM.

Turn Around Time: <12 Hour <24 Hour <48 Hour <5 Day <5 Day Other:

Client ID #	Lab ID#	Description	Location	Acceptable on Receipt	For Lab Use Only Comments
01	33274	Tile	See Chain of Custody		
For Lab Use Only	# Spies	Total	Client #	Batch #	Results Reported
					Comments

**TRC**

21 GRIFFIN ROAD NORTH  
WINDSOR, CONNECTICUT 06095  
TELEPHONE (860) 298-9692  
FAX (860) 298-6399

# ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: September 2005  
Supersede Previous Edition

PROJECT NUMBER

43500-5910-00001

PROJECT NAME

CT DPW - 30 Trinity Street,  
Hartford, CT

LAB ID #.

33290

PARAMETERS

PLM NY NOB 198.1 (POSITIVE STOP)  
PLM NY NOB 198.1 (w/ gravimetric reduction)  
ANALYZE BY LAYER  
POINT COUNT (IF >1% & <10%)  
TEM NY NOB 198.4 (IF PLM SERIES NEG)

TURNAROUND TIME

PLM:	24hr	X	48hr		3day		5day
TEM:	24hr	X	48hr		3day		5day

MATERIAL

INSPECTOR: (SIGNATURE)

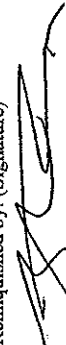


(PRINTED)

Stephen Arienti

FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION
			COMP	GRAB	
01	1/30/07	1500			1 <sup>st</sup> floor - South corridor
02	1/30/07	1500			1 <sup>st</sup> floor - South corridor
03	1/30/07	1500			1 <sup>st</sup> floor - South corridor

X	9"X9" grey floor tile (FT2) & associated mastic
X	White cove base & associated glue (CB1)
X	Grey levelastic (LEVI) & associated mastic

Relinquished by: (Signature) 	Date: 1/31/07	Received by: (Signature) <i>K. Williamson</i>	Date: 2/1/07
(Printed) Stephen Arienti	Time: 1345	(Printed) Kathleen Williamson	Time: 0830
Remarks:	Condition of Samples: <u>OK</u> Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Comments:		
		Relinquished by: (Signature)	Received by: (Signature)
		Date:	Date:
		Time:	Time:
		(Printed)	(Printed)
			Page 1 of 1

# Proscience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857  
TEM Bulk Chain of Custody Record

*NT8746*

Date: 02/02/07

Client: TRC *59/0*  
Client Job#: 43500-~~5900~~-00001  
Client Job Ref/Loc.: CT DPW (Site: 30 Trinity Street, Hartford, CT)  
Relinquished by: K. Williamson  
Received by:  
Report to: D. LePage  
Samplers Name: S. Arienti

Analysis Type: Chatfield N.O.B N.Y.S Qualitative

*Stephanie Anderson 2/5/07 9AM*

Turn Around Time: <12 Hour <24 Hour <48 Hour <3 Day <5 Day Other:

*<48 Hour*

Client ID #	Lab ID#	Description	Location	Acceptable on Receipt	For Lab Use Only Comments	
01	33290	Mastic only	See Chain of Custody			
02	33290	CB & glue				
03	33290	Mastic & levelastic				
For Lab Use Only	# Spies	Total	Client #	Batch #	Results Reported	Comments

## **APPENDIX D**

# **PLM LABORATORY ANALYSIS DATA**

**TRC ENVIRONMENTAL CORPORATION**  
Environmental Chemistry Laboratory  
21 Griffin Road North  
Windsor, CT 06095  
(860) 298-6308

**BULK ASBESTOS ANALYSIS REPORT**

CLIENT: CT Department of Public Works

Site: 30 Trinity Street, Hartford, CT  
Lab Log #: 33274  
Project #: 43500-5900-00001  
Date Received: 01/29/07  
Date Analyzed: 01/30/07

**RESULTS**

Sample No.	Color	Homogeneous	Multi-Layered	Layer No.	Other Matrix Mat'ls	Asbestos %	Asbestos Type
01	White	Yes	No	--	--	ND<1%	None

Reporting limit- asbestos present at 1%  
ND<1% - asbestos was not detected  
Trace- asbestos was observed at level of less than 1%

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must be confirmed by quantitative transmission electron microscopy.

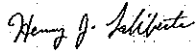
The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2007. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through February 1, 2008. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyst: Kathleen Williamson

QC Analyst: Kathleen Williamson

Reviewed by:   
Laboratory Analyst

Approved:   
Signatory: Henry J. Laliberte  
Laboratory Manager

Date Issued: 1/31/07

**TRC ENVIRONMENTAL CORPORATION**  
Environmental Chemistry Laboratory  
21 Griffin Road North  
Windsor, CT 06095  
(860) 298-6308

**BULK ASBESTOS ANALYSIS REPORT**

CLIENT: CT Department of Public Works

Site: 30 Trinity Street, Hartford, CT  
Lab Log #: 33290  
Project #: 43500-5910-00001  
Date Received: 02/01/07  
Date Analyzed: 02/02/07

**RESULTS**

Sample No.	Color	Homogeneous	Multi-Layered	Layer No.	Other Matrix Mat'ls	Asbestos %	Asbestos Type
01	Black (mastic)	No	Yes	1	--	ND<1%	None
01	Grey (tile)	No	Yes	2	--	10%	Chrysotile
02	Beige (glue)	No	Yes	1	--	ND<1%	None
02	White (cove base)	No	Yes	2	--	ND<1%	None
03	Black (mastic)	No	Yes	1	--	ND<1%	None
03	Grey (levelastic)	No	Yes	2	--	ND<1%	None

Reporting limit- asbestos present at 1%  
ND<1% - asbestos was not detected  
Trace- asbestos was observed at level of less than 1%

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must be confirmed by quantitative transmission electron microscopy.

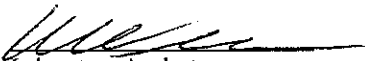
The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2007. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through February 1, 2008. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

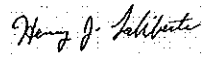
Analyst: Kathleen Williamson

QC Analyst: Kathleen Williamson

Reviewed by:

  
Laboratory Analyst

Approved



Signatory:

Henry J. Laliberte  
Laboratory Manager

Date Issued:

2/2/07

**TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS**

NVLAP Lab Code 101424-0  
NY #10980

AIHA #100122  
RI #AAL-007C3

CT #PH-0426  
TX #300354

ME LA-0075, LB-0071  
VT #AL014538

MA #AA000052  
VA #3333 000283

# APPENDIX E

## TEM LABORATORY ANALYSIS DATA

# ProScience Analytical Services, Inc

22 Cummings Park, Woburn, Massachusetts 01801  
 781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail: general@proscience.net

Client #: 297 ~~5790~~  
 Client Project: 43500-~~5790~~-00001  
 Client Reference: DPW - 30 Trinity St., Hartford, CT  
 Client Name: TRC Environmental Corp. (CT)

Method: TEM NOB  
 Batch: NT 8738  
 Date Analyzed: 2/5/2007  
 Date Received: 2/1/2007  
 Date of Report: 2/5/2007

LAB ID	Field ID	Description:	Color	Initial Sample Weight	% Asbestos Types						Total % Asbestos	Preper/Charged				
					CHR	AMO	ACT	CRO	ANT	TRE			% Other Non-asb.	% Organic	% Carb.	Analyzed /Charged
NT67403	01	12x12 White Floor Tile		.8437	.00	.00	.00	.00	.00	.00	18.64	15.01	66.35	ND	Yes	No

**Comments:**

Mary-Ann Eornecian, Analyst

Asbestos Codes: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = AnthrophyLite TR = Trace = < 1% ND = None Detected



# ProScience Analytical Services, Inc

22 Cummings Park, Woburn, Massachusetts 01801  
 781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail: general@proscience.net

Client #: 287 59/0  
 Client Project: 43500-0000-00001  
 Client Reference: CT DPW; 30 Trinity St., Hartford, CT  
 Client Name: TRC Environmental Corp. (CT)

Method: TEM NOB  
 Batch: NT 8746  
 Date Analyzed: 2/7/2007  
 Date Received: 2/5/2007  
 Date of Report: 2/7/2007

LAB ID	Field ID	Description:	Initial Sample Weight	Color	% Asbestos Types						% Other Non-asb.	% Carb.	Total % Asbestos	Analyzed /Charged	Preped/ Charged
					CHR	AMO	ACT	CRO	ANT	TRE					
NT87427	01	Black mastic associated w/9"x9" grey floor	.2082		21.82	.00	.00	.00	.00	.00	.00	14.36	21.82	Yes	No
NT87428	02M	Mastic associated w/white cove base	.1881		.00	.00	.00	.00	.00	.00	.00	11.70	ND	Yes	No
NT87429	02	White cove base	.5233		.00	.00	.00	.00	.00	.00	.00	44.47	ND	Yes	No
NT87430	03M	Grey levelastic & yellow mastic composite	.0670		.74	.00	.00	.00	.00	.00	.00	23.88	TR	Yes	No
NT87431	03	Black mastic	.1932		.00	.00	.00	.00	.00	.00	.00	34.11	ND	Yes	No

**Comments:**

Mike Zappala, Analyst

Asbestos Codes: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite TR = Traces = < 1% ND = None Detected