

PRE-DEMOLITION ASBESTOS SURVEY

FOR THE

**SENECA SERVICE AREA
EMERGENCY GENERATOR BUILDING
NEW YORK STATE THRUWAY AUTHORITY
DESIGN OF RENOVATIONS D212762
ONTARIO COUNTY, NEW YORK**

FOR SUBMISSION TO:

**NEW YORK STATE THRUWAY AUTHORITY
ALBANY, NEW YORK**

APRIL 2002

PREPARED FOR:

**HUNT ENGINEERS
AIRPORT CORPORATE PARK
100 HUNT CENTER
HORSEHEADS, NEW YORK**



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APRIL 2002

PREPARED BY:

**EDWARD O. WATTS, P.E., P.C.
3826 MAIN STREET
BUFFALO, NEW YORK**

Table of Contents

	<u>Page No.</u>
1.0 EXECUTIVE SUMMARY	1
2.0 SUMMARY OF FINDINGS	2
APPENDIX A - LABORATORY REPORTS	
APPENDIX B - LABORATORY ACCREDITATION	
APPENDIX C - CONSULTANT CERTIFICATION	

DISCLAIMER

This report has been prepared primarily on the basis of the results of visual site observations, laboratory analysis of suspect building materials, and a general survey of the building conditions of the building housing the emergency generator at the property known as the Seneca Service Area located on the New York State Thruway in the County of Ontario, New York.

The site survey work was performed on March 22, 2002 by Watts Engineers. Watts Engineers was unable to access the portion of the building facing the Service Area building because the door was locked and no keys were available. According to New York State Thruway Authority (NYSTA) employees, that section of the building is used strictly for storage and there should be no suspect asbestos-containing materials. At this time, Watts Engineers is assuming no ACM is present in the portion of the building that was inaccessible.

1.0 EXECUTIVE SUMMARY

Edward O. Watts, P.E., P.C. (Watts Engineers) was retained by Hunt Engineers to perform a pre-demolition survey for asbestos-containing materials (ACM) at the building housing the emergency generator at the Seneca Service Area, located on the New York State Thruway in the County of Ontario, New York. The purpose of the survey was to determine the presence, location and quantity of asbestos-containing materials that are associated with the building.

The field survey of this structure was conducted on March 22, 2002 and included the following:

- A visual site inspection to identify suspect ACM.
- Collection and laboratory analysis of samples from each suspect material for asbestos content.
- Documentation of sample locations on floor-plan drawings and chain-of-custody forms.

The inspection included the collection and laboratory analysis of seven (7) bulk samples. ACM is defined as any material containing more than one percent (1%) of asbestos. The following ACM were identified:

- Caulk around the perimeter of all window frames and louvers - 3 windows (4' x 3') and 2 louvers (6' x 7').
- Window glazing compound on all windows - 3 windows.
- Caulk around the perimeter of all door frames - 3 doors
- Penetration roof flashing around the roof top fan units - approximately 40 square feet.
- Built-up roofing on the entire roof of the building - approximately 590 square feet.

Floor-plan drawings identifying bulk sample locations, chain-of-custody forms, laboratory results, laboratory accreditation, and consultant's certifications and license are included in the appendices.

2.0 SUMMARY OF FINDINGS

This section includes a Summary of Identified ACM and a floor-plan drawing for the building housing the emergency generator at the Seneca Service Area located on the New York State Thruway in the County of Ontario, New York. The Summary of Identified ACM indicates the type, amount, and description of ACM located in each area of the building surveyed.

Approximate bulk sample locations are indicated on floor-plan drawings. A total of seven (7) samples were collected and analyzed. The samples were initially analyzed by Polarized Light Microscopy (PLM). Any Non-Friable Organically Bound (NOB) materials not identified as an ACM under PLM were then analyzed by Transmission Electron Microscopy (TEM).

HOMOGENEOUS MATERIALS LIST

Seneca Service Area
Emergency Generator Building
Ontario County, New York

Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)		ACM
				PLM	TEM	Y/N
Window Caulk	East Side of Building	M	Y0041.02-29	5% chrysotile	NA	Y
Window Glazing Compound	East Side of Building	M	Y0041.02-30	2% chrysotile	NA	Y
Door Caulk	East Side of Building	M	Y0041.02-31	ND	4.2% chrysotile	Y
Pipe Insulation	Associated with Emergency Generator	T	Y0041.02-32	ND	NA	N
Mud Fitting Insulation	Associated with Emergency Generator	T	Y0041.02-33	ND	NA	N
Built-up Roofing	Roof	M	Y0041.02-34	25% chrysotile	NA	Y
Roof Flashing	Roof	M	Y0041.02-35	ND	20% chrysotile	Y

NA - Not analyzed.

ND - None detected. (PLM)

NAD - No asbestos detected. (TEM)

Type

T = Thermal

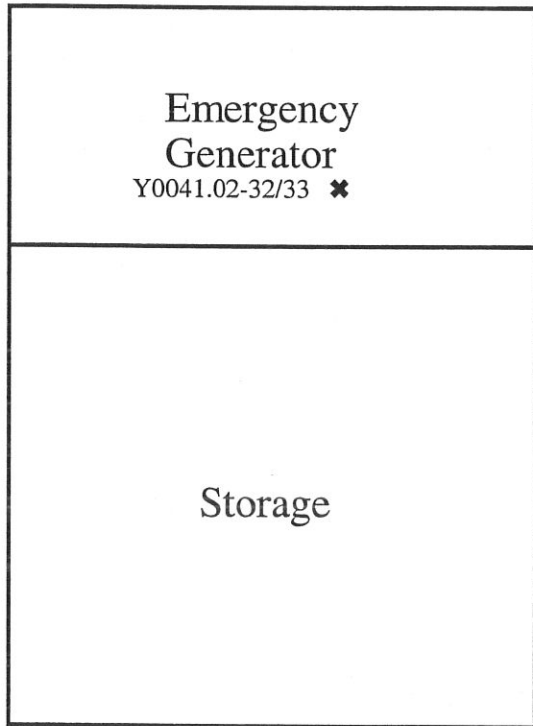
S = Surfacing

M = Miscellaneous

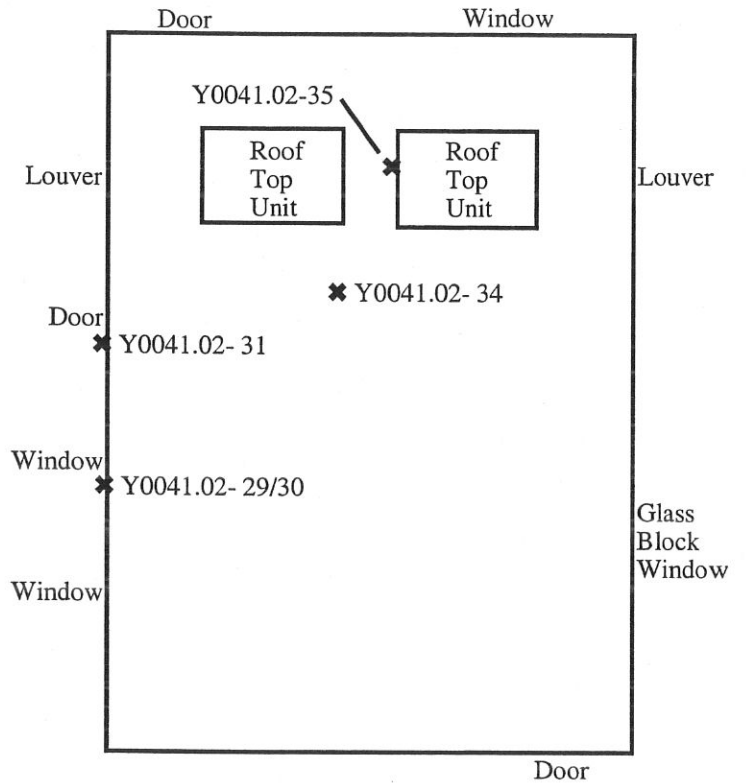
ACM

Y = Yes

N = No



INTERIOR



EXTERIOR

KEY:

✖ Indicates Approximate Bulk Sample Location

Bulk samples collected on March 22, 2002.



WATTS ENGINEERS
3826 MAIN STREET
BUFFALO, NEW YORK 14226

**Bulk Sampling Location Drawing
Emergency Generator Building**

**Seneca Service Area
New York State Thruway
Ontario County, New York**

Not to Scale

April 2002

APPENDIX A
Laboratory Reports

POLARIZED LIGHT MICROSCOPY (PLM)



Attn.: Greg Andrews
Edward O. Watts P.E., P.C.
3826 Main St.
Buffalo, NY 14226

Monday, March 25, 2002

Ref Number: BU021024

POLARIZED LIGHT MICROSCOPY (PLM) - POINT COUNT

Performed by EPA 600/R-93/116 Method*

Project: Y0041.02 / Emergency Generator Building

Sample	Location	Appearance	Sample Treatment	ASBESTOS		NON-ASBESTOS	
				%	Type	%	Fibrous % Non-Fibrous
Y0041.02-29	E side of bldg NF	Tan Fibrous Homogeneous	Teased	5.0%	Chrysotile		95.0% Matrix
Y0041.02-30	E side of bldg NF	Grey Fibrous Homogeneous	Teased	2.0%	Chrysotile		98.0% Matrix
Y0041.02-31	E side of bldg NF	Grey Fibrous Homogeneous	Teased		Inconclusive None Detected		100.0% Matrix
Y0041.02-32	associated w/emergency generator	White Fibrous Homogeneous	Teased		None Detected	2.0% Cellulose < 1% Glass	98.0% Matrix
Y0041.02-33	associated w/emergency generator	Grey/Yellow Fibrous Heterogeneous	Crushed		None Detected	50.0% Glass	50.0% Matrix
Y0041.02-34	roof over emergency generator NF	Black Fibrous Homogeneous	Teased	25.0%	Chrysotile		75.0% Matrix

Comments: For all obviously heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. Also, "# of Layers" refers to number of separable subsamples.

* NY samples analyzed by ELAP 198.1 Method.

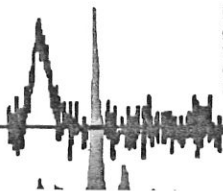
Note: NF-NOBs analyzed PLM w/o grav. prep per client. ND & <= 1% results are inconclusive

Thomas M. Hanes
Analyst

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 Buffalo (NVLAP Air and Bulk #200056, NYSDOH ELAP# 11606 /CT Pub. Health# 0278)



EMSL Analytical, Inc.

490 Rowley Road

Depew, NY 14043

Phone: (716) 651-0030 Fax: (716) 651-0394



Attn.: Greg Andrews
Edward O. Watts P.E., P.C.
3826 Main St.
Buffalo, NY 14226

Monday, March 25, 2002

Ref Number: BU021024

POLARIZED LIGHT MICROSCOPY (PLM) - POINT COUNT

Performed by EPA 600/R-93/116 Method*

Project: Y0041.02 / Emergency Generator Building

Sample	Location	Appearance	Sample Treatment	ASBESTOS		NON-ASBESTOS			
				%	Type	%	Fibrous	%	Non-Fibrous
Y0041.02-35	roof penetration NF	Black Fibrous Homogeneous	Teased		Inconclusive None Detected	30.0%	Cellulose	70.0%	Matrix

Comments: For all obviously heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. Also, "# of Layers" refers to number of separable subsamples.

* NY samples analyzed by ELAP 198.1 Method.

Note: NF-NOBs analyzed PLM w/o grav. prep per client. ND & <= 1% results are inconclusive

Thomas M. Hanes
Analyst

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 Buffalo (NVLAP Air and Bulk #200056, NYSDOH ELAP# 11606 /CT Pub. Health# 0278)

TRANSMISSION ELECTRON MICROSCOPY (TEM)

EMSL Analytical, Inc.

490 Rowley Road
Depew, New York 14043
Phone (716) 651-0030
Fax (716) 651-0394



March 27, 2002

Edward O. Watts P.E., P.C.

3826 Main Street
Buffalo, NY 14226
Phone: (716) 836-1540
Fax: (716) 836-2402

Attention: **Greg Andrews**
Project: **Y0041.02 / Emergency Generator Building**
Ref #: **BU02-1058**

Analysis of New York State NOBs Performed by Transmission Electron Microscopy (TEM) ELAP 198.4 Method*

SAMPLE ID	SAMPLE DESCRIPTION	COLOR	% NON FIBROUS MATERIAL	% NON-ASB FIBERS	TEM RESULTS % ASBESTOS
Y0041.02-31	caulk	gray	95.8		4.2 chrysotile
Y0041.02-35	flashing	black	80		20 chrysotile

Analyst

Rhonda McGee

Approved Signatory

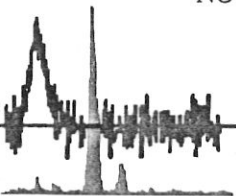
NOTES: NON-ACM indicates a final residue weight <1% of subsample original weight

NAD - No Asbestos Detected

NVLAP #200056-0

NY STATE ELAP #11606

Page 1 of 1



CHAIN-OF-CUSTODY FORMS

EDWARD O. WATTS, P.E., P.C.
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

Client: Hunt Engineers Date: 3-22-02
 Project: Seneca Service Area Watts Project No.: Y004H.02
 Building / Location: Emergency Generator Building
 Contact: Greg Andrews at (716) 836-1540 Turnaround Requested: 3 Hr 48 Hr
 Fax Preliminary Results to: (716) 836-2402 Analysis Requested: 6 Hr 72 Hr
 Mail Report & Invoice to: Edward O. Watts, P.E., P.C. PLM TEM 5 Day
 3826 Main Street, Buffalo, NY 14226 24 Hr 6-10 Day

Sample Number	Material Description	Sample Location	Laboratory Results	
			PLM	TEM
Y004H.02-29	Window Caulk	East Side of Building		
Y004H.02-30	Window Glazing Compound	East Side of Building		
Y004H.02-31	Dust Caulk	East Side of Building		
Y004H.02-32	Pipe Insulation	Associated with Emergency Generator		
Y004H.02-33	Mud Filting Insulation	Associated with Emergency Generator		
Y004H.02-34	Built-up Roofing	Roof over Emergency Generator		
Y004H.02-35	Roof Flashing	Roof Penetrations		

Sampled By: Greg Andrews Date: 3-22-02 Received By: [Signature] Date: 3:50 pm 3/22/02
 Relinquished By: Greg Andrews Date: 3-22-02 Received By: _____ Date: _____

Comments: _____

APPENDIX B
Laboratory Accreditation

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
Antonia G. Novello, M.D., M.P.H., Dr.P.H. Commissioner



Expires 12:01 AM April 01, 2002
Issued August 18, 2001

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE
Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. KENNETH NAJUCH
EMSL ANALYTICAL INC - WILLIAMSVILLE
490 ROWLEY ROAD
DEPEW NY 14043 USA

NY Lab Id No: 11606
EPA Lab Code: NY01278

*is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:*

Miscellaneous

Asbestos in Friable Material EPA 600/M4/82/020
Method Not Specified

Asbestos in Non-Friable Material ITEM 196.4 OF MANUAL

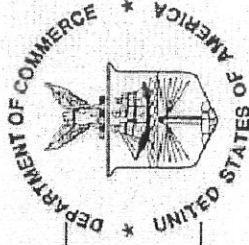
Serial No.: 13105

Property of the New York State Department of Health. Valid only at the address shown.
Must be conspicuously posted. Valid certificates have a raised seal and may be
verified by calling (516)485-5570.

DOH-3317 (3/97)

United States Department of Commerce
National Institute of Standards and Technology

NVLAP[®]



ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

EMSL ANALYTICAL, INC.
DEPEW, NY

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

June 30, 2002

Effective through

David J. Alderman

For the National Institute of Standards and Technology

NVLAP Lab Code: 200056-0

APPENDIX C
Consultant Certification



WATTS ENGINEERS
3826 MAIN STREET
BUFFALO, NEW YORK 14226



STATE OF NEW YORK - DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH
License and Certificate Unit
BUILDING 12, Room 161
STATE CAMPUS
ALBANY, NY 12240

ASBESTOS HANDLING LICENSE

RESTRICTED LICENSE - NO ASBESTOS REMOVAL PERMITTED

LICENSE NUMBER: 99-0394
DATE OF ISSUE: 04/27/01
EXPIRATION DATE: 04/30/02

Contractor: EDWARD O. WATTS, P.E., P.C. (dba WATTS ENGINEERS)

Address: 3826 MAIN STREET
AMHERST, NY 14226

Duly Authorized Representative: EDWARD O. WATTS, P.E.

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.


This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. The licensee verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Richard Cucolo, Director
FOR THE COMMISSIONER OF LABOR



WATTS ENGINEERS
3826 MAIN STREET
BUFFALO, NEW YORK 14226

MUST BE CARRIED ON ASBESTOS PROJECTS

	CERTIFICATE NUMBER	
	AH 94-10797	
	EXPIRES	
	SOCIAL SECURITY NUMBER	
113-66-8583		
EYES	HAIR	
BLU	BRN	
WEIGHT	HEIGHT	
185 lbs.	5ft	11in.

ADDRESS CORRESPONDENCE TO:
(include certificate number)
NYS Department of Labor
DOSH - License and Certificate Unit
PO Box 687, New York, NY 10014-0687

079978C

DOSH-442 (01/71)

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH

ASBESTOS HANDLING CERTIFICATE
AUTHORIZED CLASSES
C (02/03), D (02/03), E (02/03)
H (02/03), I (02/03)

GREGORY A ANDREWS
50 BIRCHWOOD AVE APT4
WEST SENECA, NY 14224

RICHARD CUCOLO, Director - For the Commissioner of Labor

- C - AIR SAMPLING TECHNICIAN
- D - INSPECTOR
- E - MANAGEMENT PLANNER
- H - PROJECT MONITOR
- I - PROJECT DESIGNER